

**A
PROJECT
ON**

“Blossoms at Backyard”

Submitted to

**Rashtrasant Tukadoji Maharaj Nagpur University,
NAGPUR**

In the Partial Fulfillment of

B.Com. (Computer Application) Final Year

Submitted by

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**G. S. College of Commerce & Economics
Nagpur**

2019-2020

**G. S. COLLEGE OF COMMERCE & ECONOMICS
NAGPUR**

CERTIFICATE

(2019 - 2020)

This is to certify that Mr. /Miss Shivani M. Awatade & Sushmita L. Paunikar has completed their project on the topic of “Blossoms at Backyard” prescribed by the Rashtrasant Tukadoji Maharaj Nagpur University for B.Com. (Computer Application) - III course in G. S. College of Commerce & Economics, Nagpur.

Date: 10/03/2020

Place: Nagpur

Pravin J. Yadao

Project Guide

External Examiner

Internal Examiner

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Shivani M. Awatade

Sushmita L. Paunikar

Date:10/03/2020

Place: Nagpur

DECLARATION

We **Shivani M. Awatade & Sushmita L. Paunekar** hereby honestly declare that the work entitled **“Blossoms at Backyard”** submitted by us at G.S. College of Commerce & Economics, Nagpur in partial fulfillment of requirement for the award of B.Com. (Computer Application) degree by Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur has not been submitted elsewhere for the award of any degree, during the academic session 2019-2020.

The project has been developed and completed by us independently under the supervision of the subject teacher and project guide.

Shivani M. Awatade

Sushmita L. Paunekar

Date:10/03/2020

Place: Nagpur

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INTRODUCTION

INTRODUCTION

This project is an informatory website based on “Horticulture”. It is a system that allows the user to browse through different fields of Horticulture and gardening. This website can be conveniently managed using internet where the user can provide his feedback regarding his overall experience with the website.

The front-end of this project has been created using HTML and CSS to provide it a dynamic look and an attractive user interface; making it convenient for user to browse through the website. The background management has been supported using MYSQL database system to provide the managers of this website to keep a track on user records and queries effortlessly.

We have used PHP as a basis for website design to not only provide accessibility but to provide an attractive user interface by using different styles and attributes of HTML and CSS. It is human tendency to get attracted to what looks good and is easy to access and we have designed this project accordingly. In the world of web designing there have been rapid improvements in the region of architectural design and principles and one has to choose the best of them and assemble them using one’s creativity. In this fantastic yet complex world of web designing, there are some true and tried architecture patterns and guidelines employed by almost every web designer. He must make sure how his work stands out and his design must have an ability to turn towards innovation instead of offending itself to common practices.

Websites are one of the zones where the designers must completely be dependent upon their creativity and hope that their solutions are still successful. From requirements to user cases, database design, component framework to user interfaces; we have covered each and every aspect of system design required to build a website with the collaborative IDE.

The objective of this project is to develop a platform where people will get to know more about their gardens and horticulture through internet. It'll encourage them to plant trees and develop a healthy life style.

Through “Blossoms at Backyard” user can browse through different crops and techniques using the search box and the explore section. In the events section of this project, they'll get to know about the events and workshops being hosted regarding horticulture. If in case the user is interested in attending the event he/she will be directed to the Facebook page of the community where they can mark themselves interested.

Users can clarify their doubts in the FAQ (Frequently Asked Questions) section of the website which has been categorized according to different crops.

The user can also present their queries or provide their feedback using the feedback section of this website. The users will be required to fill in their details such as name and email address and they can add a comment and hit the submit button to send their feedback.

Users can access “Blossoms at Backyard” through World Wide Web. The managers of the website can easily access the user data in the back-end.

Other Horticulture websites provide the user with nothing more than information regarding general crops and techniques of horticulture, no different from what we can get through general agriculture magazines and books. From this point of view, “Blossoms at Backyard” not only provides the user with information but also a platform to connect with other users through the events. They can also get to know more about techniques to decorate their gardens and also get to know if something is wrong about their crop or if it is deficient of something.

Other Horticulture websites, in addition to being informative should also include several of following services:

- A platform where users can connect with other users online and can form groups for several discussions concerning horticulture.
- A platform where users can buy and sell products and learn more about them. A place where they can rate the quality of a product.
- An online messenger system where they can get expert advice regarding their problems.

OBJECTIVES

Objectives

- 1. Easy to Access:** Blossoms at Backyard is easily accessible to its users. People using this website can get all the information they desire on their finger-tips. No matter what information the user is seeking, he/she can easily browse through it using the search box and the navigation panels.
- 2. Easy Maintenance of data:** It is easy to maintain the user-data of this website as it has been stored securely in the database. All the user information can be easily retrieved from the database whenever required.
- 3. Availability:** Details related to almost every kind of crop be it a fruit, flower, vegetable or any other ornamental crop is easily available on this website. This website also includes information regarding propagation, deficiencies, nursery techniques, landscaping etc.
- 4. Time and Energy saver:** Earlier, people had to search for information regarding needs of various crops in books or had to frequently visit farming schools or ask for advices from different people which was not even verified. But this platform provides all of the verified information at one place thus saving time and energy.
- 5. Convenience:** This website has been designed in order to be convenient for the user. The user can browse through this website for as much time as he/she wants and can enjoy different features provided by it.
- 6. Quality content:** This website provides accurate information based on the gardening processes that have been carried out traditionally since old days. The content and its data quality remains constant and accurate. Searching for a particular topic is very easy and convenient for the users.

7. User-friendly: One of the important aspects on an ideal website is being user-friendly. Our website meets this requirement as it is very interactive and easy to use.

8. Reduced manual work: This website works only over internet. Information regarding any process or crop will be available online thus reducing the efforts for the user.

PRELIMINARY SYSTEM ANALYSIS

PRELIMINARY SYSTEM ANALYSIS

In the present times, we come across a lot of articles regarding “Horticulture” through different Medias. Also, people these days hardly get fresh eateries be it fruits or vegetables in the market. Some of them wanted to grow all of these in their own garden but hardly had any knowledge of it. We got the idea of developing our website by referring to all such issues. We tried gathering as much information as we could regarding different horticulture crops and processes and put them all in a system where people could refer to it and provide their feedback.

Every system has common things that are given below-

- It is an organized relationship of different sub-units.
- These units are interdependent and interrelated.
- The organized subunits must have a central objective.

Thus, in order to carry out a project successfully, it should be analyzed properly. It is necessary to investigate the present system by considering following points:

- It should help to derive cost benefit analysis.
- It should maintain the economic and technical aspect of the organization.
- The system undertaken should be feasible.
- The system undertaken should be feasible.

In a computer system, information acts as input; which is then processed to get the desired output. The output in turn helps the management to achieve a desired goal. Website systems should be controlled by feedback. One of the most important aspects for developing a new project is, what the problem with current system is. The reason behind developing this project is to provide the user with information regarding different fields and general awareness; whereas on other side, it helps refresh one’s mind and improve knowledge.

PRELIMINARY INVESTIGATION

The preliminary investigation in our case revealed that the manual system and maintaining a project is a tedious and time consuming process. Our website is quite easy to handle even by the native user and also alterations with this site is rather simple and user friendly.

It investigates the present system and functions to be performed to fulfil objectives of the new system. In general, an information system benefits an organization by increasing efficiency and providing a competitive advantage.

In our day to day life we come across various systems. Therefore, present situation is to manage each and everything we need in an ideal system. Here the word system means organized relationship amongst the components i.e. sub units of a system with central objective.

Thus every system should have these common things-

- It is an organized relationship of different sub-units.
- These units are interdependent and interrelated.
- The organized subunits must have a central objective.

Thus, in order to carryout project successfully it is to be taken under consideration that user should provide the system with such things. The system should be user-friendly and at the same time perform all the activity mentioned above with speed and accuracy which is essential in today's world. We took a survey, collected information from localities and got some other ideas for developing this website. We also learned some web technologies and studied in detail about some programming languages. We followed some waterfall models which includes some steps that are helpful for developing this website.

We followed three phases of survey: study phase, survey phase and planning phase.

We first got the idea of making this project as there wasn't really a scope for people to get information regarding kitchen gardening and horticulture apart from the manual ones like farming/horticulture schools and certain books. It was a lengthy process and demanded a lot of time and money. Thus we developed this website as a source of information for those seek the knowledge in the terms of horticulture. We learned few ways and techniques about programming which was handy for developing this website.

In the survey phase, we tried getting the knowledge from nurseries and farming/horticulture schools and got to know the real need of developing this project. We collected data and marked down the traditional methods preferred mostly by the people.

During the planning phase, we first referred some online website for their user interface which was really helpful for us during the designing process. We learned how to develop connectivity between the user interface and database and how to store data in the database through XAMPP server. We learned some CSS methods to make our website look more dynamic.

The preliminary investigation phase is intended to be quick. The entire phase should not exceed two or three days. The preliminary investigation typically include the following tasks:

- List problems, opportunities and directives.
- Negotiate preliminary scope.
- Assess project worth.
- Plan the project.
- Present the project and plan.

By visiting the Farming and horticulture schools and nurseries, we collected the information about certain crops which were categorized into fruits, flowers, vegetables, plantation, spice, medicinal, aroma and ornamental crops etc. and certain processes like budding and propagation and learned about the disorders and deficiencies that may occur.

All of these helped us in developing our website called “**Blossoms at Backyard**”.

PRESENT SYSTEM IN USE

The present system does contribute itself to the world but not in all every way.

It lacks detailed and accurate information all at one place. One may or may not get the desired part of information as it isn't available at single platform. The user has to hustle through multiple website as the information is scattered all over the internet; and it may confuse the user which one to prefer.

The current system lacks convenience. Its data is hardly update and the user interface doesn't allow the user to access the website conveniently. The data isn't saved and maintained properly and the user's feedback isn't taken care of.

Many such flaws are needed to overcome to develop an ideal website which will not only attract the users but will also mark its share for making internet a better place for users.

FLAWS IN PRESENT SYSTEM

Making a manual system into computerized system is not an easy task, especially due to the complexity of work it involves. To serve better to users is the aim of every management, but the present working system doesn't seem to work properly.

Following are the flaws of current system:

- A customer's personal information can be leaked by any one even the owner so security is not so ensured in manual form.
- Being anything, working manually is always hectic and time consuming. If the user wants to know about certain gardening process, he has to search for it in the books or have to go to a nursery or horticulture school to learn about it in detail.
- Saving and maintaining data is a difficult task.
- The user's perspective is ignored in the current system.
- It is difficult to maintain accuracy due to these errors.
- User can't find everything at one place. He/she has to hustle around for the best techniques and the proper information.
- The user's feedback isn't taken seriously and often overlooked.

NEED OF NEW SYSTEM

System is the organized working of all its units and sub-units. In order to drive the objective of the project, the system is selected in such a way so that it would satisfy all the requirements of the project. It also helps to get the desired output.

In today's world of computers and technology where every aspect of the life is computerized so that the system used should be efficient and accurate. As per the old system like books and journals or any other media, it is very difficult to view a lot of featured contents that we use now for e.g. Modern techniques such reading E-books or getting information directly from the informatory website. If we use the old techniques, we can access only a limited amount of a data and if we are in search of a particular topic then it becomes very difficult to search for that particular content.

A website which is completely designed for giving information to the user and it is also noncommercial in nature is the need of the hour because this kind of website will facilitate the users all over the world accessing the topic of interest.

The need of new system arises from the webpage that exist in the present manual system. The new system is required to save resources such as time and manpower, which are valuable in the present scenario of system. The new system helps us handle large database in a smooth manner and also makes the updation of data very easy.

This project will be the user friendly. It will provide quick performance application and is an informative website. Accuracy and efficiency is an ordinary function of this project.

Modifications will provide some extra ordinary features to the project.

FEASIBILITY STUDY

"A feasibility study is an analysis that takes all of a project's relevant factors into account-including economic, technical, legal and scheduling considerations-to ascertain the likelihood of completing the project successfully." Feasibility is the determination of whether or not a project is worth doing. The main objective of the feasibility study is to test the Economical, Technical and Operational Feasibility.

The current system developed is feasible in all aspects. It is a web based user interfaces that provides an easy access to the users. The database purpose is to create, establish and maintain data. Therefore, it provides the technical guarantee of accuracy, reliability and security.

There are three different ways feasibility can be tested

1. Economic Feasibility.
2. Technical Feasibility.
3. Social Feasibility.

Economic Feasibility

Economic Feasibility also known as cost benefits analysis. The economic aspects of project preparation and analysis require a determination of a proposed project that will contribute significantly to the development of the total economy. To determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits out weight cost, then decision is made to design and implement the system.

A System is developed technically and is used if its installation is a good investment for the organization. In the economic Feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems.

Technical Feasibility

It checks whether the existing system supports the candidate system or not or up to what extent it supports it. It is basically dependent upon software, hardware etc. Technical feasibility helps us understand the level and kind of technology needed for a system. It includes performance issues and constraints that may affect the ability to achieve an acceptable system. The technical issues usually rises during the feasibility stage of the investigation.

- ❖ Can the system be upgraded if developed?
- ❖ Do the existing system have technical capacity to hold the data required to use the new system?

Social Feasibility

Social Feasibility is the one where the acceptance of the people is considered regarding the system to be launched (existing or new). It describes the effect of the users from the introduction of the new system considering whether there will be a need for retraining the workforce.

Most frequently, project analysts are expected to examine carefully the broader social implications of existing/new system. Social considerations should be carefully considered to determine if proposed project is responsive to users and to the equipment used.

FEASIBILITY REPORT

The feasibility study is a significant part that should be undergone before the project is developed. It gives us an overall view as to what should be the end result or in other words what improvement should be done in the new system that would be superior to the old system. Feasibility study reveals the main objectives of the system. From the beginning, the aim of this particular project is to provide computerized facility of using website applications providing a user friendly platform.

The study shows how the system of application will overcome the problems that are faced by the users of the previous system rather than manual system. The manual system as compared to the other websites is slow, not very accurate and modifications are not even possible. Therefore, the new system has been developed keeping in the mind the demerits of the previous system in the use.

The benefits that will be derived from the new system is that, it will decrease the salary cost, there will be more accuracy, more work in less time and the system would be more reliable. Thus, after doing the feasibility study, we can safely conclude that new system that will be developed which is “Blossoms at Backyard” is feasible in all respect and it would surely benefit the end user to a great extent.

PROJECT CATEGORY

Project Category

FRONT END DEVELOPMENT: PHP (HTML & CSS)

BACK END: MYSQL (DATABASE)

PHP:

- ❖ **(PHP: Hypertext Preprocessor)** A scripting language that is widely used to create dynamic web pages. PHP code is embedded within HTML pages for server side execution. It is commonly used to extract data out of a database on the Web server and present it on the Web page. Originally known as "Personal Home Page, PHP is supported by all Web servers and widely used with the MySQL database.
- ❖ PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, database, session tracking, even build entire e-commerce sites.
- ❖ It is integrated with a number of popular database, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

Common uses of PHP:

1. PHP perform system functions, i.e. from files on a system it can create open, read, write and close them.
2. PHP can handle forms, i.e. gather data from files, save data to a file, through ema you can send data, return data to the user.
3. You add, delete, modify element within your database through PHP.
4. Access cookies variables and set cookies.
5. Using PHP, you can restrict user to access some pages of your website.
6. It can encrypt data.

MySQL:

- ❖ Database is a collection of information that is or organized as a list e.g. A list of products and their categories.
- ❖ MySQL can manage database easily as it has many built in features to assist us in construction and viewing our information.
- ❖ The keywords involved in the process are database file, table record, field, data type.
- ❖ MySQL is used to store data and manipulate large amount of data and automate respective task. Storing of data easy.
- ❖ For our project, access is very supportive and successive.
- ❖ This project will require "MYSQL" as back-end. As in present era, there is a need to manage information effectively.
- ❖ A computer satisfies the demand for this project's management. MySQL is a powerful tool to create and manage database.
- ❖ It also has the ability to link to the data in its exiting location and use it for viewing query, editing and reporting. This allows the existing data to change while ensuring that the database contains all the user data.

HARDWARE AND SOFTWARE REQUIREMENT SPECIFICATION

HARDWARE AND SOFTWARE REQUIREMENT SPECIFICATION

A Software Requirement Specification contains the requirement for a software system that has complete description and behavior of a system to be developed. It includes a set of the use case that describes all the interaction that the user will have with the software. Use cases are as known to contain non-functional requirement that impose constraints on the design implementation.

It includes process of estimating the present and future workloads of a business and the process involved in evaluating the ability of computer hardware and software to handle workloads accurately. The system analyst takes to ascertaining hardware & software needs. First of all current computer hardware must be inventoried to discover what is on hand and what is usable. The system analyst needs to work along with the users to determine what hardware will be required.

❖ HARDWARE

The hardware includes basic physical components, which collectively forms a machine called computer. It includes all the peripheral devices.

Processor: Intel

Hard disc: 1 TB Hard disc

RAM: 2 GB

Keyboard: 104 Keys

Mouse: 2 Buttons

❖ SOFTWARE

Software can be termed as the group of instructions or commands used by the computer to accomplish the given task. In today's era of Software is ever ending. It is an evolution of dignified technology.

Front End: PHP

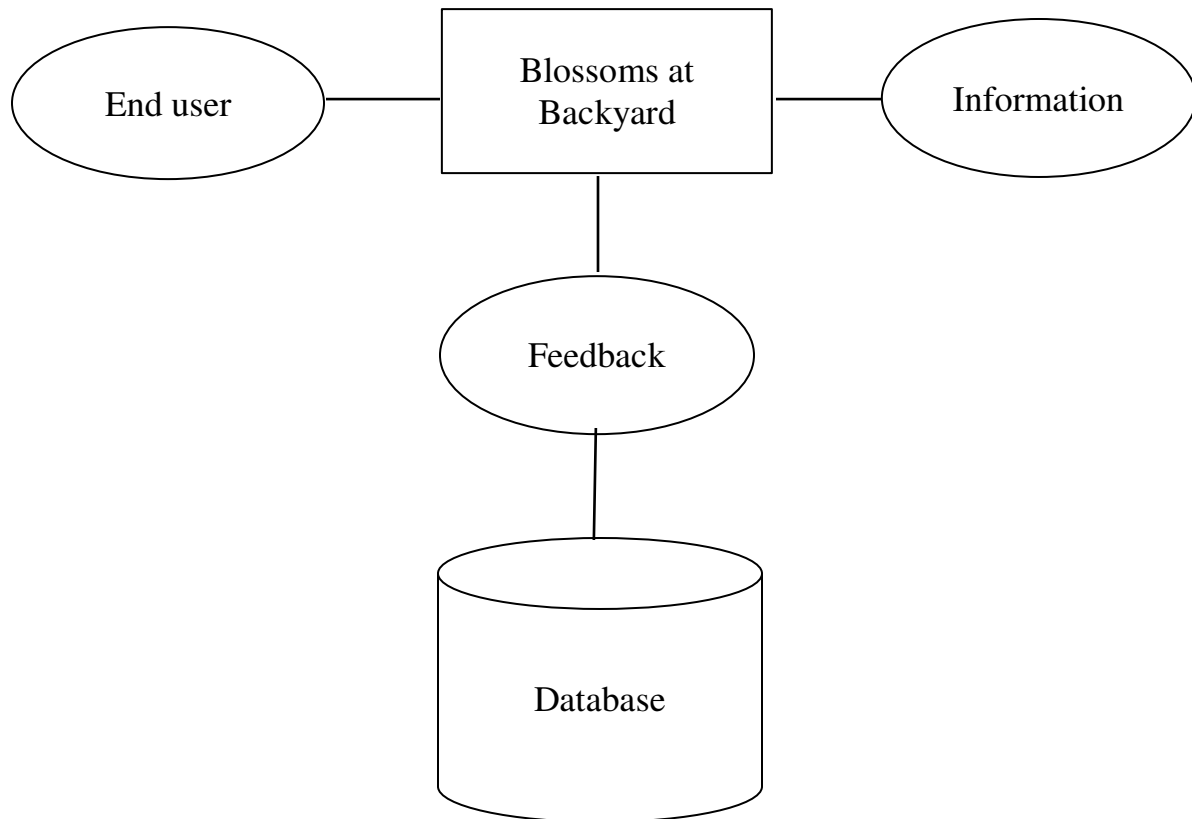
Back End: PHP MyAdmin

Operating System: Windows 10

DETAILED SYSTEM ANALYSIS

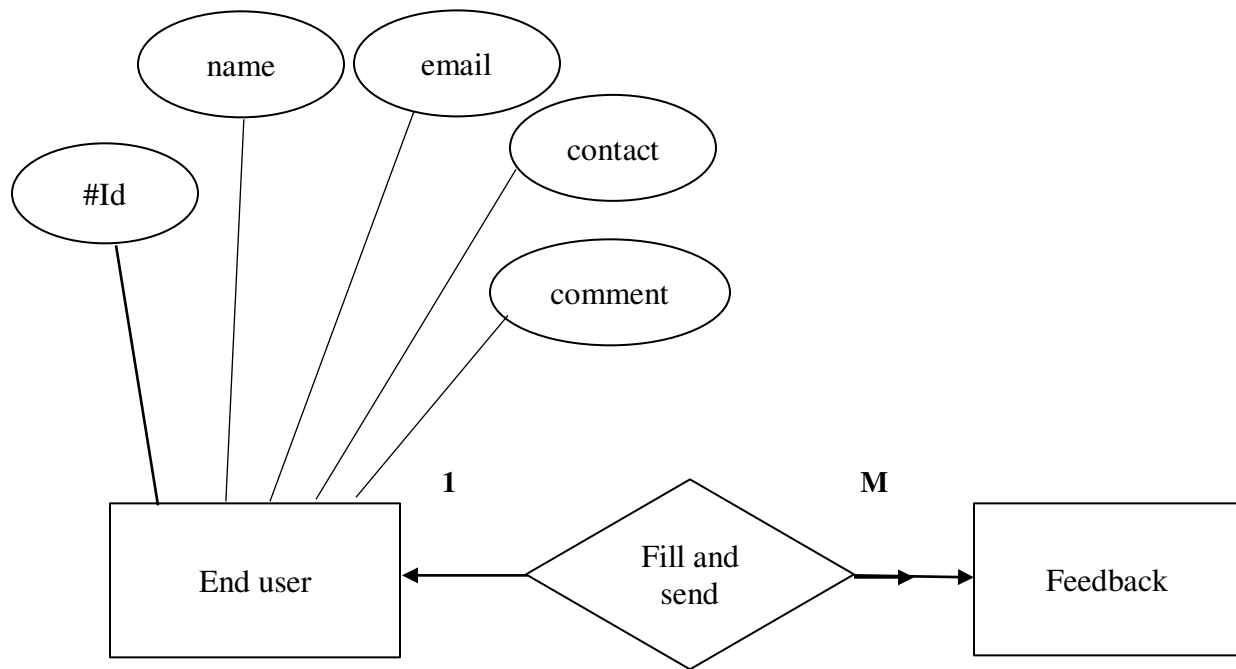
DATA FLOW DIAGRAM

❖ DFD Main



ER DIAGRAM

❖ Feedback














DATA STRUCTURES & TABLES

The “**Blossoms at Backyard**” project records are stored in the database named “**userdata**” which consists of only one table for storing the feedback submitted by the users.

The table in the database is named “**feedbackdata**”

❖ Feedbackdata

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id 	int(10)			No	None		AUTO_INCREMENT	 Change  Drop ▼ More
<input type="checkbox"/> 2	name	varchar(40)	utf8mb4_general_ci		No	None			 Change  Drop ▼ More
<input type="checkbox"/> 3	email	varchar(40)	utf8mb4_general_ci		No	None			 Change  Drop ▼ More
<input type="checkbox"/> 4	contact	int(15)			No	None			 Change  Drop ▼ More
<input type="checkbox"/> 5	comment	varchar(80)	utf8mb4_general_ci		No	None			 Change  Drop ▼ More

SYSTEM DESIGN

FORM DESIGN

1. Homepage

Fig 1.1 Startup Screen

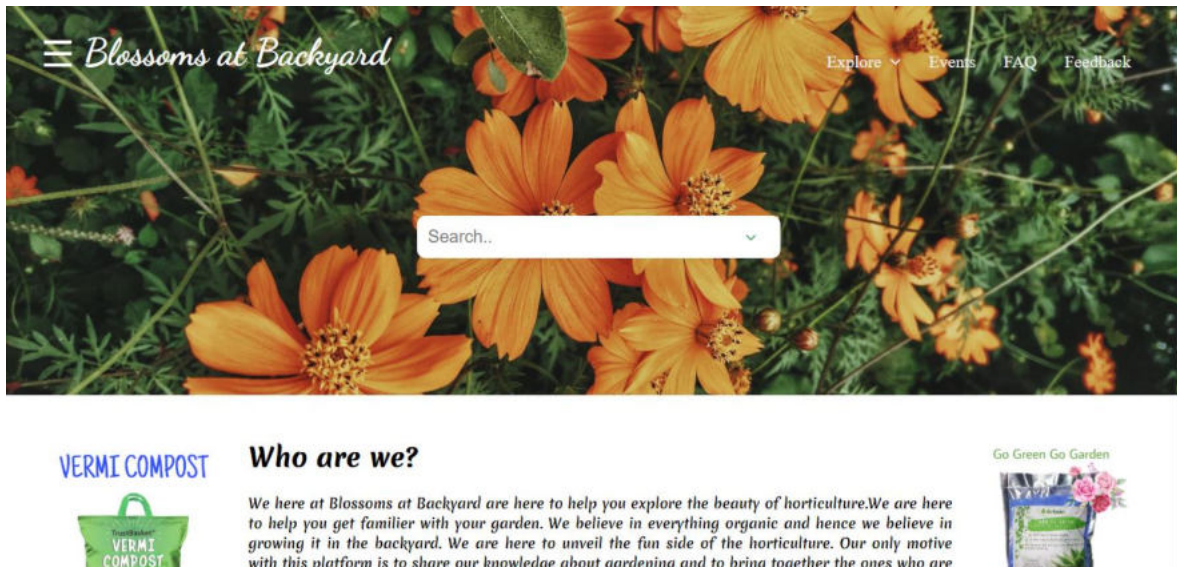


Fig 1.2 Search Box

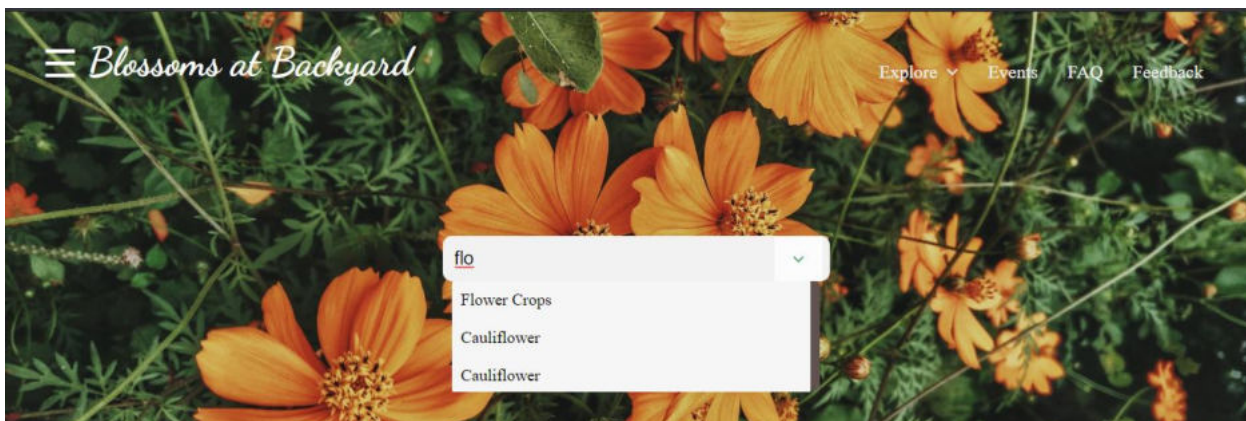


Fig 1.3 Side Navigation

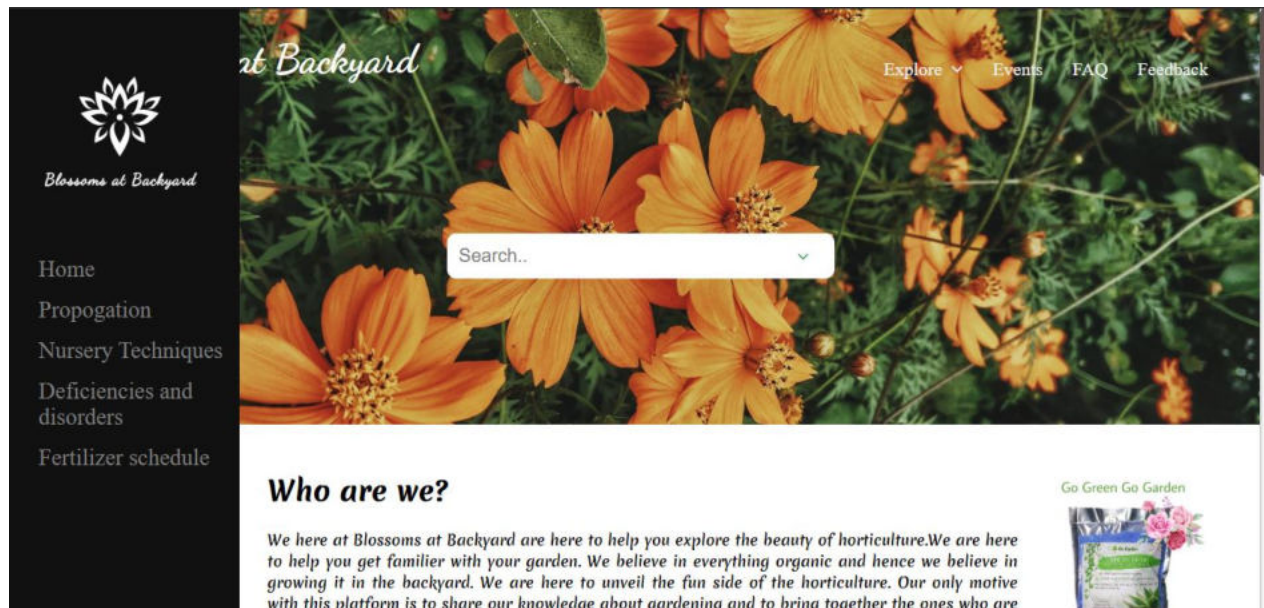


Fig 1.4 Explore Section (Top Navigation)

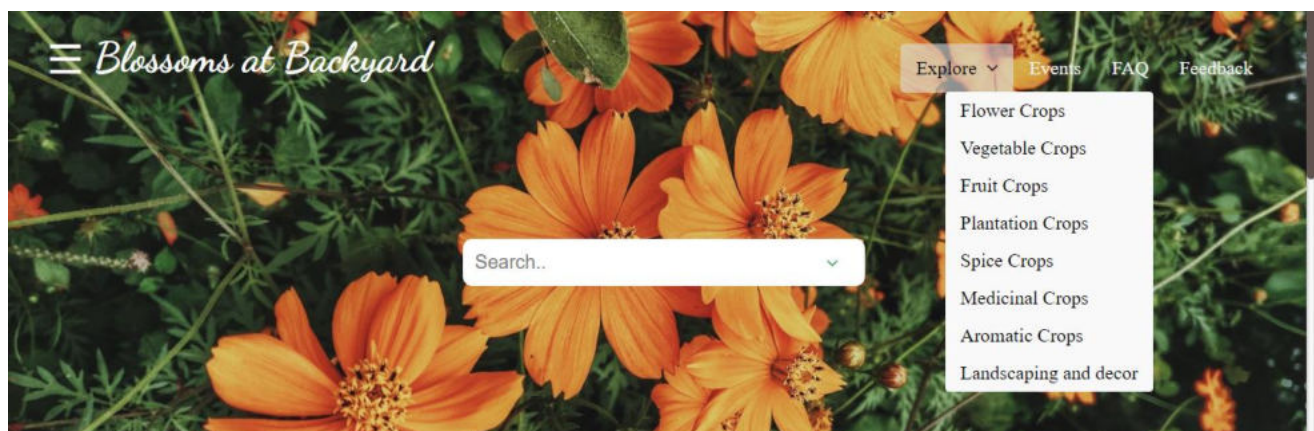


Fig 1.5 Explore Section (after scrolling)

Horticulture Crops.

Below are some horticulture crops.



2. Explore Section

Fig 2.1 Flower crops

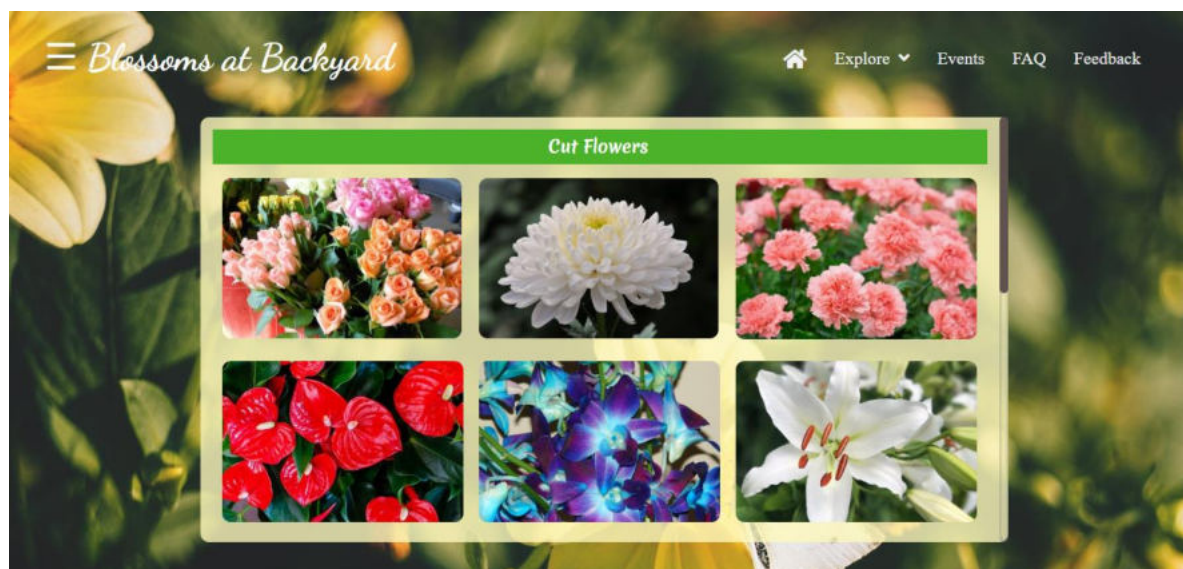


Fig 2.2 Vegetable crops



Fig 2.3 Fruit crops



Fig 2.4 Plantation crops

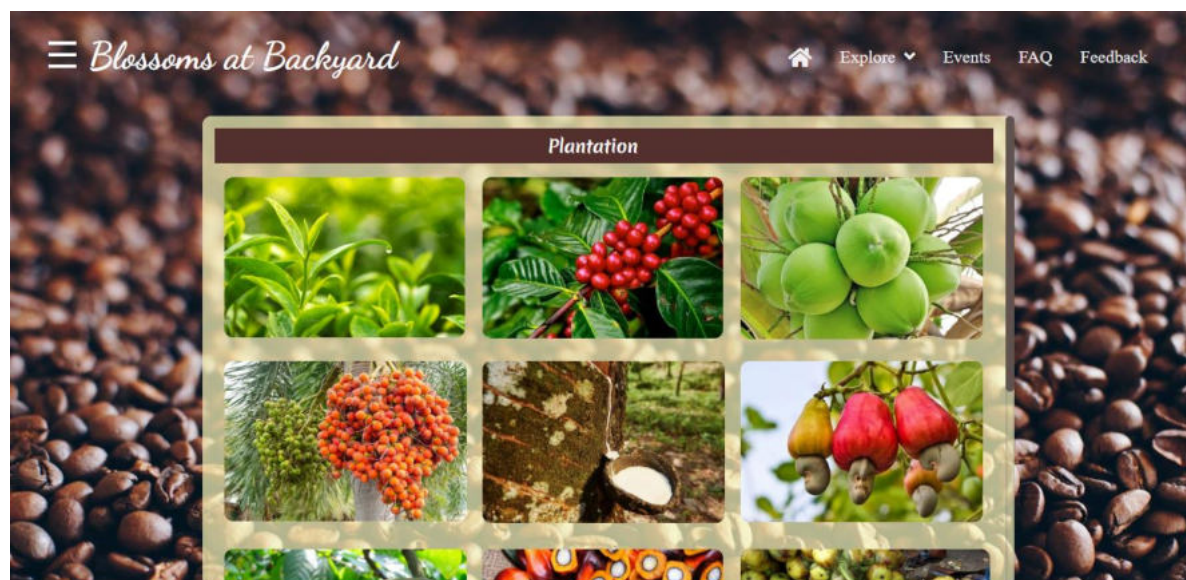


Fig 2.5 Spice crops



Fig 2.6 Medicinal crops

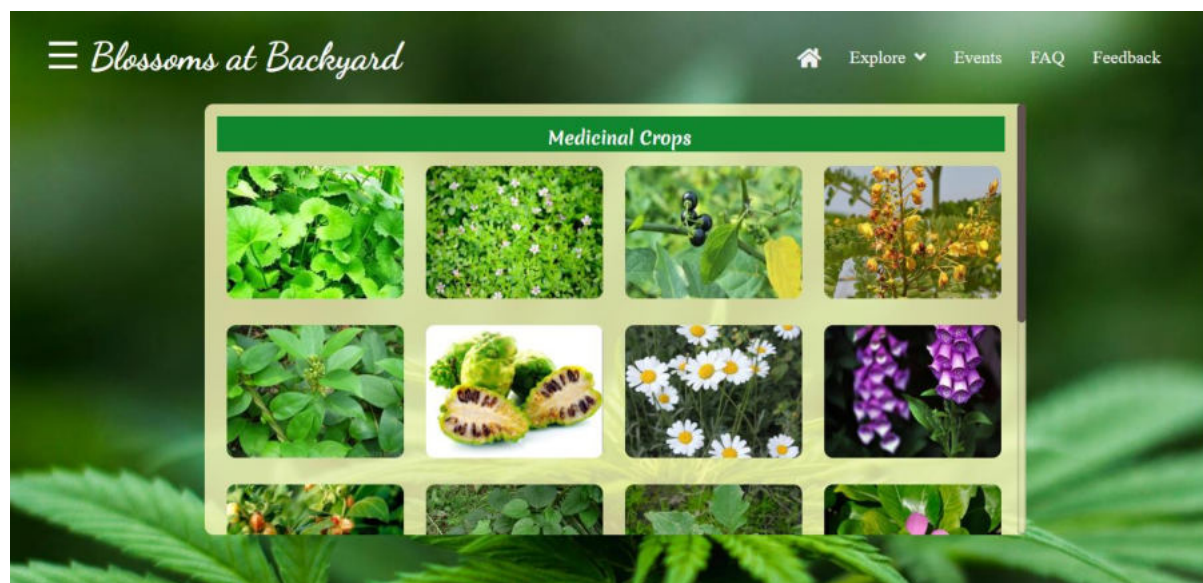


Fig 2.7 Aromatic crops

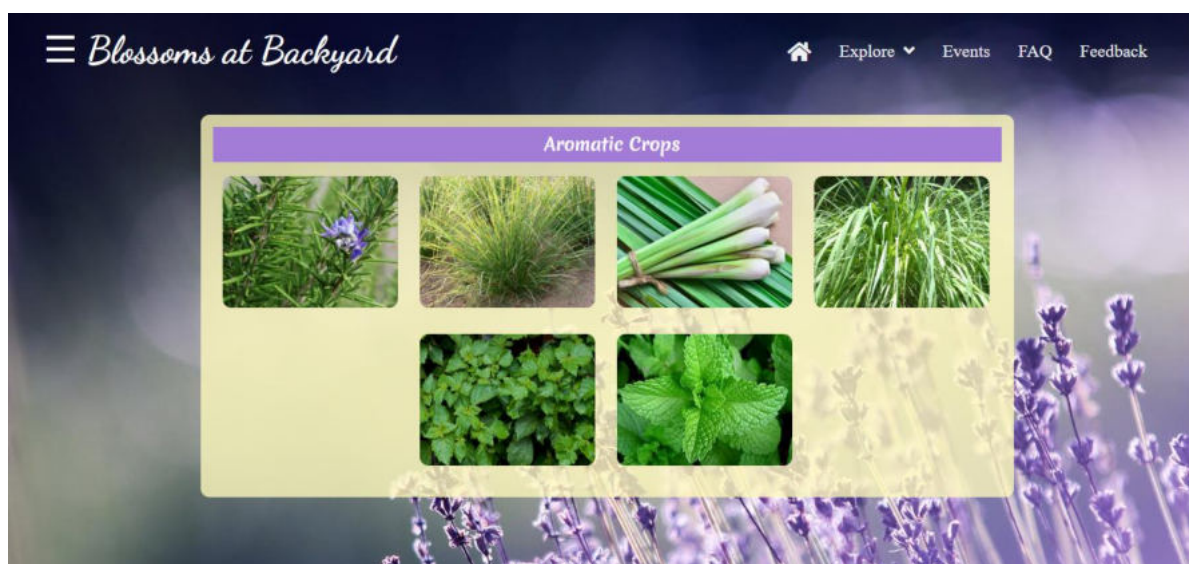
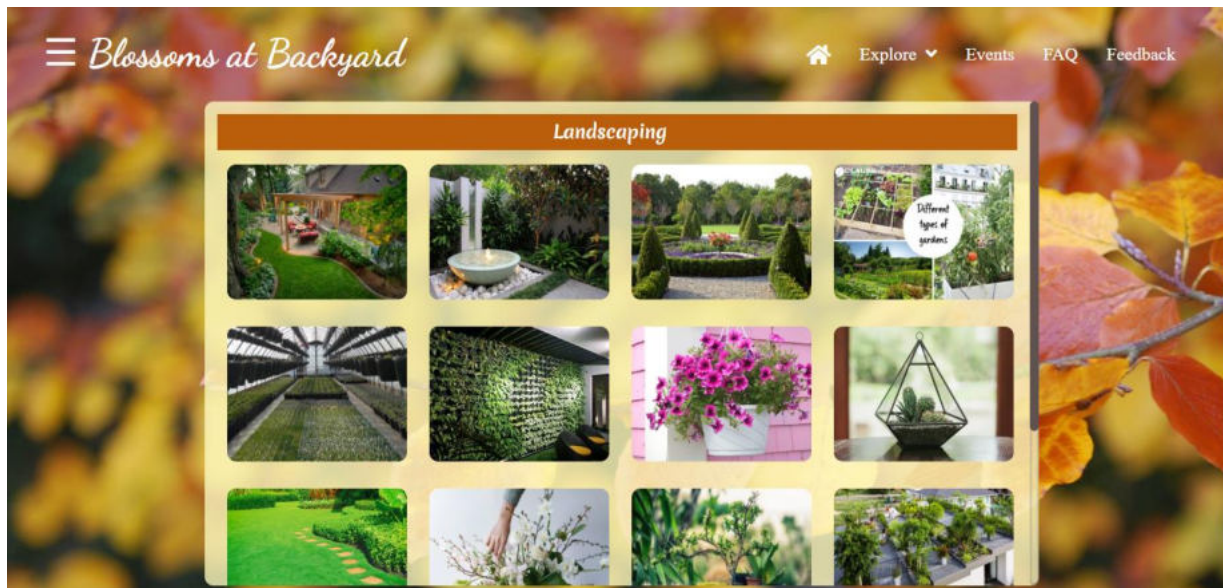


Fig 2.8 Landscape and décor

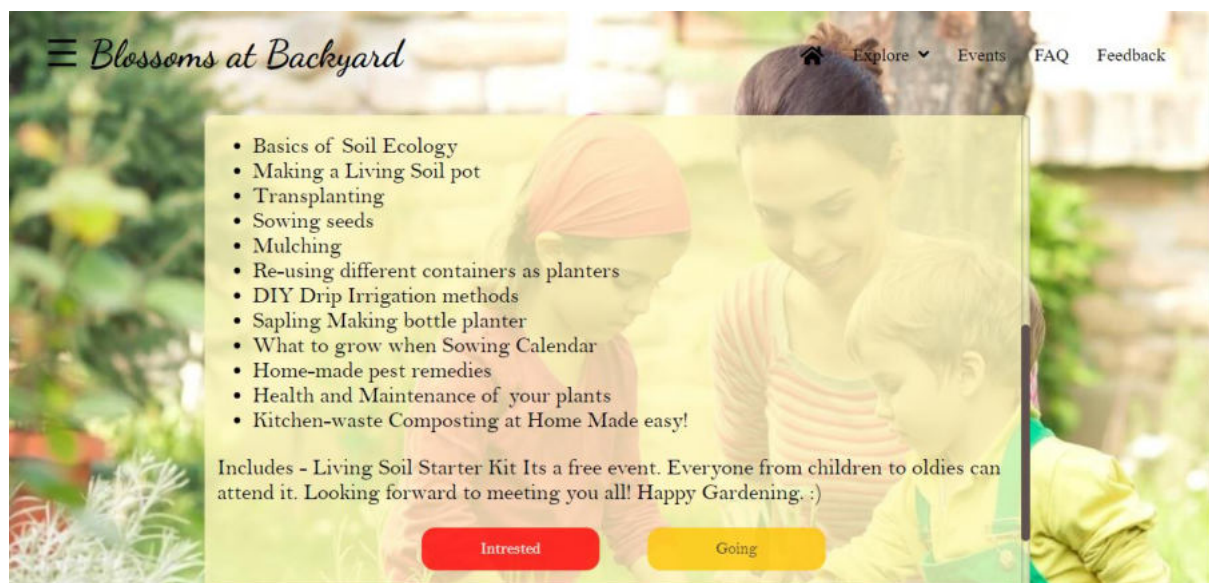


3. Event section

Fig 3.1



Fig 3.2

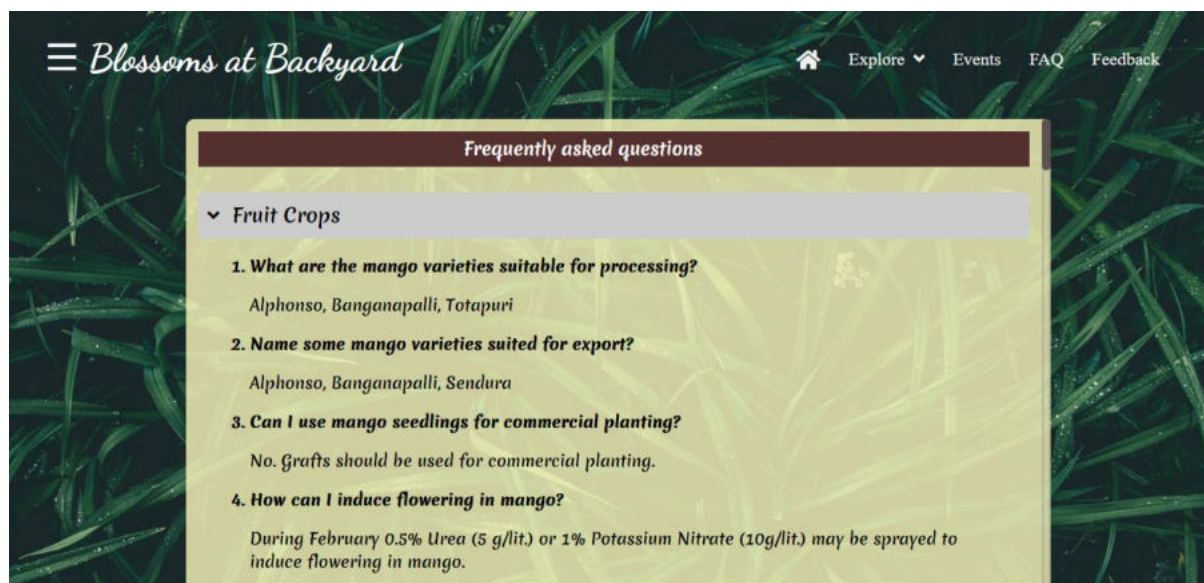


4. FAQ section

Fig 4.1



Fig 4.2



5. Feedback section

Fig 5.1

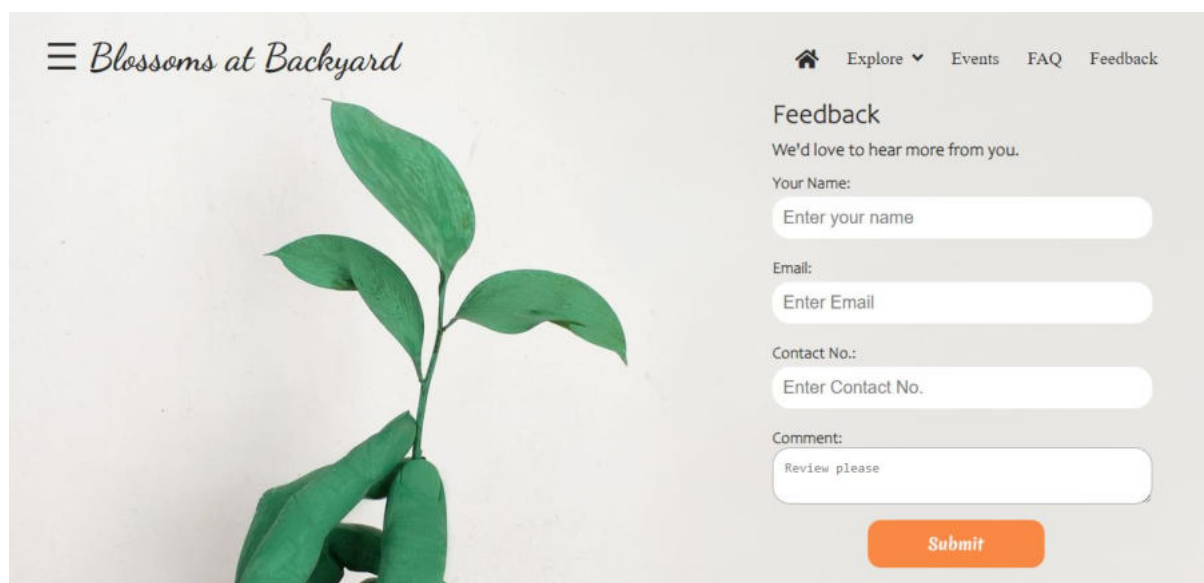
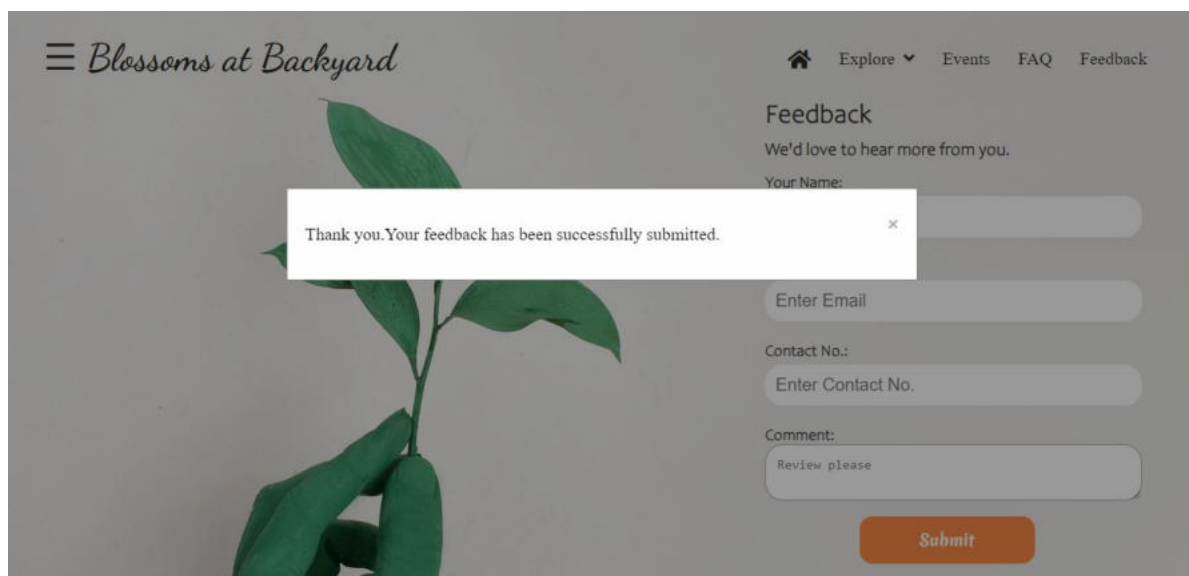


Fig 5.2



6. Side Navigation

Fig 6.1 Propagation

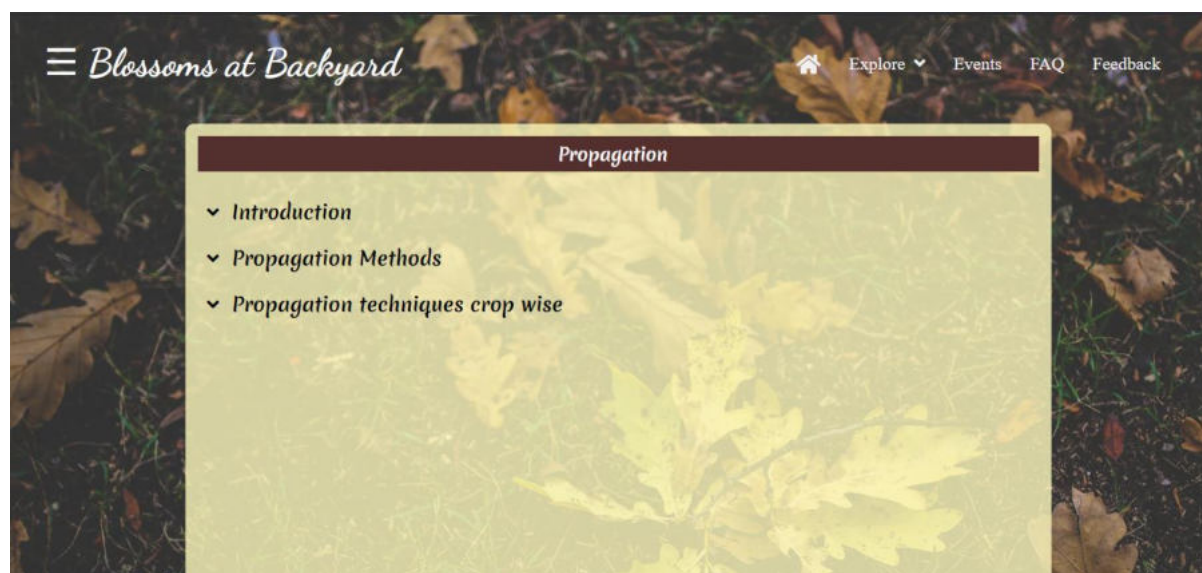


Fig 6.2 Propagation



Fig 6.3 Deficiencies and Disorder



Fig 6.4 Deficiencies and Disorder

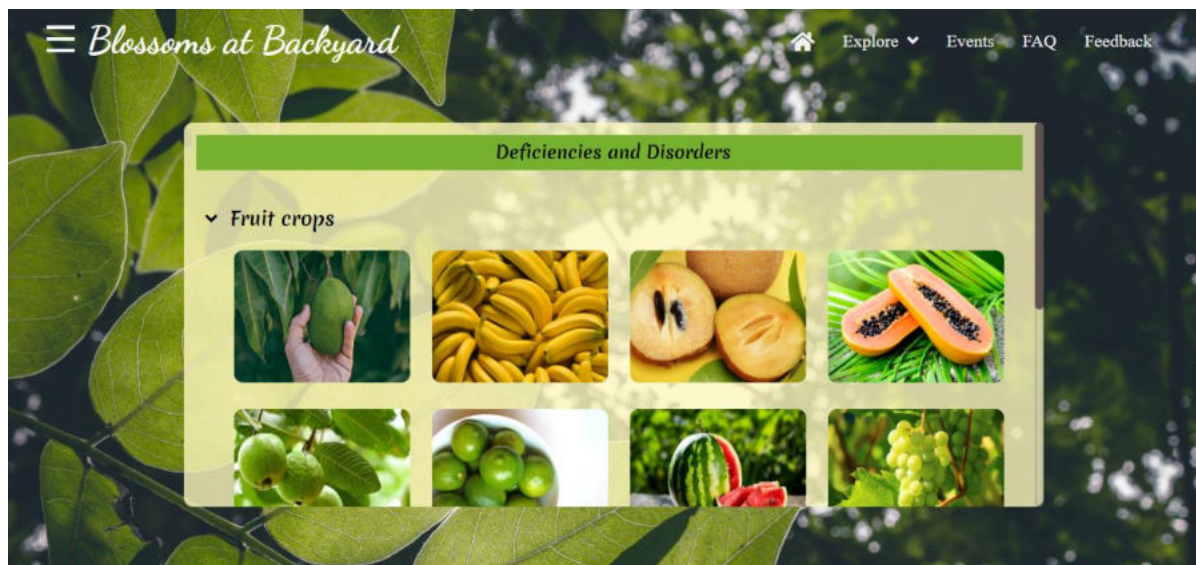


Fig 6.5 Deficiencies and Disorder

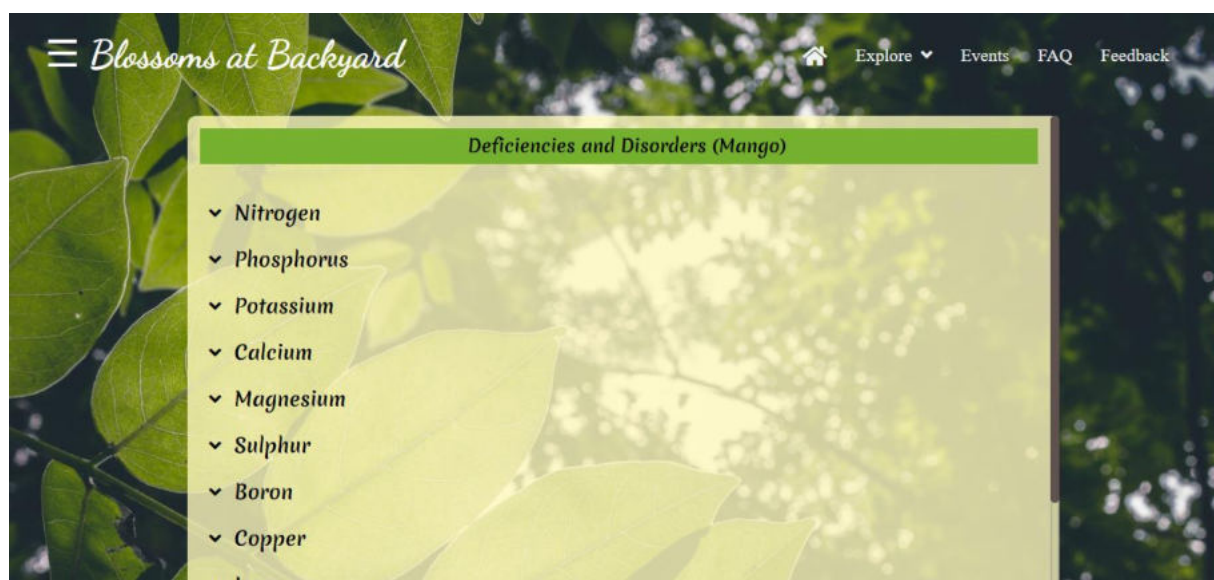


Fig 6.6 Deficiencies and Disorder



Fig 6.7 Nursery techniques



Fig 6.8 Fertilizer Schedule



Fig 6.9 Fertilizer Schedule

<p>5. FERTILIZER SCHEDULE FOR FLOWER CROPS</p> <p>Anthurium NPK @ 30:10:10 @ 0.2% is given from 30 days of planting as foliar application at weekly intervals.</p> <p>Aster Apply 5 t FYM/ha along with NPK 70 : 175 : 75 kg/ha as basal.</p> <p>Carnation Basal Neem cake 2.5 ton/ha, Phosphorus 400 g/100 sq.feet and Magnesium sulphate 0.5 kg/100 sq.feet are applied as basal. Top dressing Calcium Ammonium Nitrate and MOP at 5:3 ratio is mixed and applied @ 2.5 g/plant/month as top dressing.</p> <p>Commercial chrysanthemum FYM 25 t/ha along with 125:120:25 kg NPK/ha is required. Half of the N and the entire dose of P and K are to be applied as basal just before planting. The other half of N is to be applied on 30 days after planting the suckers. The same dose has to be repeated if a ratoon crop is allowed in December. Spray GA₃ at 50 ppm at 30, 45 and 60 days after planting to increase the flower yield.</p> <p>Cut chrysanthemum NPK @ 20:20:10 g/m² is applied through fertigation at weekly intervals</p>
--

SOURCE CODE

1. Home.php

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
<title>Blossoms at Backyard : Home</title>
</head>
<style>
html{ scroll-behavior: smooth;}
body {
margin:0;
background-color: white;
overflow-x:hidden;
}
.header {
    height:450px;
}
.footer {
    position:absolute;
    top:2150px;
    bottom:0px;
    width:100%;
    height:230px;
    background-color:White;
}
/* footer-links */
a:link {
    text-decoration: none;
}
a:visited {
    text-decoration: none;
}
a:hover {
    text-decoration: underline;
}
a:active {
```



```

    text-decoration: underline;}
/* background image */
.bg-img {
    background-image: url("floee.jpg");
    height:450px;
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    position: relative;
}
/* Navigations */
/* side navigation */
.sidenav {
    height: 100%;
    width: 0;
    position: fixed;
    z-index: 1;
    top: 0;
    left: 0;
    background-color: #111;
    overflow-x: hidden;
    transition: 0.5s;
    padding-top: 60px;
}
.sidenav a {
    padding: 8px 8px 8px 32px;
    text-decoration: none;
    font-family: Times new roman;
    font-size: 25px;
    color: #818181;
    display: block;
    transition: 0.5s;
}
.sidenav a:hover {
    color: #f1f1f1;
}
.sidenav .closebtn {
    position: absolute;
    top: 0;

    right: 25px;

```

```

    font-size: 36px;
    margin-left: 50px;}
/* top navigation */
.top-container {
    position: absolute;
    top: 40px;
    right: 40px;
    width: auto;
}
/* The navbar */
.topnav {
    overflow: hidden;
    background-color: rgba(51, 48, 0, 0.0);
}
/* Navbar links */
.topnav a {
    float: left;
    color: #f2f2f2;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
    font-size: 20px;
    border-radius: 4px;
}
/* Top Nav Hover*/
.topnav a:hover, .dropdown:hover .dropbtn {
    background-color: rgba(221, 221, 221, 0.6);
    color: black;
}
/* Top Nav Drop Down*/
.dropdown {
    float: left;
    overflow: hidden;
}
.dropdown .dropbtn {
    font-size: 20px;
    color: #f2f2f2;

margin: 0;
text-align: center;

```

```

padding: 8px 16px;
text-decoration: none;
border-radius:4px;}
.dropdown-content {
display: none;
border-radius:4px;
position: absolute;
top: 50px;
right:80px;
background-color: #f9f9f9;
min-width: 140px;
z-index: 1;}
.dropdown-content a {
float: none;
color: black;
padding: 8px 16px;
text-decoration: none;
display: block;
text-align: left;}
.dropdown-content a:hover {
background-color: rgba(221, 221, 221,0.6);
color: black;}
.dropdown:hover .dropdown-content {
display: block;}
/* Search Box */
.search-container {
width:31%;
position:relative;
top:40%;
left:35%;}
button{
background-color:white;
position:relative;
top:-70px;
left:360px;
color: #0A8334;
padding: 14px 20px;

border: none;
border-radius:0px;
opacity: 0.8;

```

```

font-family:'Merienda One';
font-size:20px;
}
/* Full-width input fields */
.search-container input[type=text] {
width:100%;
bottom:10px;
font-size:20px;
border:none;
border-radius:10px;
padding: 13px;
margin: 5px 0 22px 0;
display: inline-block;
border: none;
font-color:white;
background:white;
}
/* Add a background color when the inputs get focus */
input[type=text]:focus:focus {
background-color:#F2F2F2;
outline: none;
}
#myUL {
/* Remove default list styling */
list-style-type: none;
padding: 0;
margin: 0;
width:95%;
height:0;
overflow:auto;
border-radius :2px;
position:relative;
top:-70px;
left:10px;
transition: 0.4s;
display:block;}

#myUL li a {
top:-2px;
background-color: #f6f6f6; /* Grey background color */
padding: 10px; /* Add some padding */

```

```

text-decoration: none; /* Remove default text underline */
font-size: 18px; /* Increase the font-size */
color: black; /* Add a black text color */
/* Make it into a block element to fill the whole list */
display: block;
overflow: auto;
transition: 0.4s;
}
#myUL li a:hover:not(.header) {
  background-color: #eee; /* Add a hover effect to all links, except for headers */
}
/* text container */
.container{
  position: relative;
  top:30px;
  left:280px;
  width:60%;
}
/* horticulture categories*/
.category-container {
  position:relative;
  top:0px;
  left:250px;
  padding:14px;
  width:870px;
  height:80%;
  border-radius:10px;
  background-color: white;
}
/* images and its container*/
.img-container {
  position: relative;
  top:50px;
  left:180px;
  width:60%;}

.image {
  border:none;
  border-radius:10px;
  display: block;}
.overlay {

```

```

position: absolute;
top: 0;
bottom: 0;
left: 0;
right: 0;
opacity: 0;
transition: .5s ease;
background-color:#FFF5DA;
}
.img-container:hover .overlay {
  opacity:0.7;
}
/* overlay text */
.text {
  color: #0F0E0B;
  font-family:Merienda One;
  font-size: 20px;
  position: absolute;
  opacity:0.9;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  text-align: center;
}
/* Slide show */
.mySlides {display: none;}
/* Slideshow container */
.slideshow-container {
  max-width: 1000px;
  position: relative;
  margin: auto;
}
/* Scroll Bar */
/* width */
::-webkit-scrollbar {
  width: 10px;
}
/* Track */
::-webkit-scrollbar-track {
  box-shadow: inset 0 0 5px grey;
  border-radius: 10px;
}

```

```

}
/* Handle */
::-webkit-scrollbar-thumb {
  background-color: #5F524F;
  border-radius: 10px;
}
/* scroll to top button */
#myBtn {
  display: none;
  position: fixed;
  top: 580px;
  height: 50px;
  width: 50px;
  left: 1230px;
  right: 40px;
  z-index: 100;
  background-color: #0A8334;
  color: white;
  cursor: pointer;
  padding: 10px;
  border-radius: 50px;
  font-size: 28px;
}
#myBtn:hover {
  background-color: #555; /* Add a dark-grey background on hover */
}
</style>
<body>
<button onclick="topFunction()" id="myBtn" title="Go to top"><i class="fa fa-angle-
up"></i></button>
<div class="bg-img">
<div class="header">
<div class="top-container">
<div class="topnav">
<div class="dropdown">
<a style="cursor:pointer">Explore&nbsp;<i class="fa fa-angle-down"></i></a>
<div class="dropdown-content">
<a href="flowercrop.php">Flower Crops</a>
<a href="vegcrop.php">Vegetable Crops</a>
<a href="fruitcrop.php">Fruit Crops</a>
<a href="plantncrop.php">Plantation Crops</a>

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<a href="spicecrop.php">Spice Crops</a>
<a href="medcrop.php">Medicinal Crops</a>
<a href="aromacrop.php">Aromatic Crops</a>
<a href="landscape.php">Landscaping and decor</a>
<a href="valueadd.php">Fertilizers and value addition</a></div></div>
<a href="events.php">Events</a>
<a href="FAQ.php">FAQ</a>
<a href="feedback.php">Feedback</a></div></div>
<div id="mySidenav" class="sidenav" onmouseleave="closeNav()">

<a href="home.php">Home</a><a href="propagation.php">Propogation</a>
<a href="nurserytech.php">Nursery Techniques</a>
<a href="DandD.php">Deficiencies and disorders</a>
<a href="fertilizer.php">Fertilizer schedule</a>
<a href="protection.php">Plant protection</a>
</div>
<span style="font-family:Dancing Script;font-weight:bold;font-
size:43px;cursor:pointer;position:relative;top:25;left:40;color:#ffffff;"
onclick="openNav()">&#9776;</span><p style="font-family:Dancing Script;font-
weight:bold;font-size:43px;cursor:pointer;position:absolute;top:-
15px;left:90;color:#ffffff;"><a href="home.php" style="text-decoration:none;color:#ffffff">
Blossoms at Backyard</a></p>
<div class="search-container">
<input type="text" name="search" placeholder="Search.." id="myInput"
onkeyup="myFunction();showSuggestions()" onmouseleave="hideSuggestions()"> <button
type="submit" class="button" onmouseenter="showSuggestions()"
onmouseleave="hideSuggestions()" style="cursor:pointer"><i class="fa fa-angle-
down"></i></button>
<ul id="myUL" onmouseenter="showSuggestions()"
onmouseleave="hideSuggestions()">
<li><a href="aromacrop.php">Aromatic Crops</a></li>
<li><a href="flowercrop.php">Flower Crops</a></li>
<li><a href="fruitcrop.php">Fruit Crops</a></li>
<li><a href="landscape.php">Landscaping and Decor</a></li>
<li><a href="medcrop.php">Medicinal Crops</a></li>
<li><a href="plantncrop.php">Plantation Crops</a></li>
<li><a href="spicecrop.php">Spice Crops</a></li>
<li><a href="valueadd.php">Value addition and fertilizers</a></li></ul></div></div>
<div class="slideshow-container"><a href=" ">

```



```

</a><div
class="mySlides">
<a href=" ">

</a><div class="mySlides">
<a href=" "></a></div><a href=" ">

</a><div class="mySlides">
<a href=" "></a></div>
<a href=" ">
</a><div
class="mySlides"><a href=" "></a></div></div>
<div class="container" style="left:280px">
<H1 style="font-family:Merienda One;font-size:30px;left:280px">Who are we?</H1><p
style="font-family:Merienda One;" align="justify">We here at Blossoms at Backyard are
here to help you explore the beauty of horticulture.We are here to help you get familier with
your garden.
We believe in everything organic and hence we believe in growing it in the backyard.
We are here to unveil the fun side of the horticulture. Our only motive with this platform is
to share our knowledge
about gardening and to bring together the ones who are seeking the same.</p>
<H1 style="font-family:Merienda One;font-size:30px;left:280px">What is
Horticulture?</H1><p style="font-family:Merienda One;" align="justify">Horticulture
been defined as the agriculture of plants, mainly for food, materials, comfort and beauty for
decoration. It is the growing of flowers, fruits and vegetables, and of plants for ornament
and fancy. It also includes plant conservation, landscape restoration, soil management,
landscape and garden design, construction and maintenance, and arboriculture.
In contrast to agriculture, horticulture does not include large-scale crop production or
animal husbandry.</p><p style="font-family:Merienda One;" align="justify">
Horticulture includes wide range of crops namely, fruits, vegetables, tuber crops, flowers,
medicinal and aromatic plants,
mushrooms,plantation crops and spices etc. These crops are grown in varied agro-climatic
conditions of temperate, sub
tropical and arid zones.</p><p style="font-family:Merienda One;"
align="justify">Horticulture includes a wide range of tools and technologies. It is a
scientific methodology of cultivation, to make high

```

crops yield the desired quality. These scientific methods could be as simple as using tractors for cultivation to deriving

fertilizer mixing complex chemicals.

Why is Horticulture important?

- As compared to field crops, horticulture crops will give more returns per unit area.
- Horticulture crops are very important as their nutritional status is high.

Particularly fruits and vegetables give a high amount of vitamins and minerals to us.

- Horticulture is very important as it beautifies the

surrounding.

- Horticulture crops are more suitable for small and marginal farmers.
- Horticulture plants improve the environment by reducing pollution,conserves soil and water

and develop the socio-economic status of the farmer.

Horticulture Crops.

Below are some horticulture crops.

Flower crop

Vegetable crop

Fruit crop

Plantation crop

Spice crop

```

<a href="medcrop.php"><div class="overlay"
style="height:165px;width:250px"><div class="text" style="cursor:pointer">Medicinal
crop</div></div></a></div><div class="img-container" style="top:-
640px;left:20px;height:180px;width:260"><a href="aromacrop.php"><div class="overlay"
style="height:165px;width:250px"><div class="text" style="cursor:pointer">Aromatic
crop</div></div></a></div><div class="img-container" style="top:-
820px;left:310px;height:180px;width:260">
<a href="landscape.php"><div
class="overlay" style="height:165px;width:250px"><div
class="text" style="cursor:pointer">Lanscaping and Decor</div></div></a></div><div
class="img-container" style="top:-1000px;left:600px;height:180px;width:260"> <a
href="valueadd.php">

<div class="overlay" style="height:165px;width:250px"><div class="text"
style="cursor:pointer">Value addition &
fertilizers</div></div></a></div></div></div><div class="footer"><div class="container"
style="width:1000px;height:120px;font-family:Merienda One;font-size:48px;background-
color:white;position:relative;top:-100px;left:40px"><p style="font-family:Dancing Script;font-weight:bold;font-
size:43px;position:relative;top:-120;left:90px;color:Black;">Blossoms at Backyard</p><a
href="https://www.facebook.com/blossomsatbackyard" style="background-
color:white;position:relative;left:480px;top:-205"><i class="fa fa-facebook-square"
style="font-size:35px;color:#0F19B6"></i></a><a
href="https://www.instagram.com/blossomsatbackyard/" style="background-
color:white;position:relative;left:500px;top:-205"><i class="fa fa-instagram" style="font-
size:35px;color:#9E0562"></i></a></div><div><hr
style="width:1200px;position:relative;top:-140px;left:0px"></hr></div><div
class="container" style="width:500px;height:20px;font-family:Candara Light;font-
size:16px;background-color:white;position:relative;top:-145px;left:780px"><a
href="Terms.php" style="color:#0A8334">Terms of service</a>&nbsp; &nbsp; &nbsp; <a
href="Aboutus.php" style="color:#0A8334">About Us</a>&nbsp; &nbsp; &nbsp; <a
href="help.php" style="color:#0A8334">Help</a>&nbsp; &nbsp; &nbsp; <a
href="directory.php" style="color:#0A8334">Directory</a>&nbsp; &nbsp; &nbsp; <a
href="FAQ.php" style="color:#0A8334">FAQ</a>&nbsp; &nbsp; &nbsp; <a
href="events.php" style="color:#0A8334">Events</a><div class="container"
style="width:350px;height:200px;font-family:Candara Light;font-size:16px;background-
color:white;position:relative;top:-30px;left:-700px">

```

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<p style="font-weight:bold;font-size:20px">Get in touch with us<br>Contact us
at:</p><p>Shivani Awatade<br>Sushmita Paunikar<br>G.S.College of Commerce and
Economics, Nagpur<br>Phone No. +07172258700<br>Email us at:
blossomsatbackyrd@gmail.com<br>©Blossoms at Backyard
2020</p></div></div></div><script>function openNav() {
document.getElementById("mySidenav").style.width = "250px";}
closeNav() {
document.getElementById("mySidenav").style.width = "0";}
function showSuggestions() {
document.getElementById("myUL").style.height="120px";}
function hideSuggestions() {
document.getElementById("myUL").style.height="0";}
function myFunction() {
// Declare variables var input, filter, ul, li, a, i, txtValue;
input = document.getElementById('myInput');
filter = input.value.toUpperCase();
ul = document.getElementById("myUL");
li = ul.getElementsByTagName('li');
// Loop through all list items, and hide those who don't match the search query
(i = 0; i < li.length; i++) {
a = li[i].getElementsByTagName("a")[0];
txtValue = a.textContent || a.innerText;
if (txtValue.toUpperCase().indexOf(filter) > -1) {
li[i].style.display = "";
} else {
li[i].style.display = "none";}}}
//slide show
var slideIndex = 0;
showSlides();function showSlides() {
var i; var slides = document.getElementsByClassName("mySlides");
for (i = 0; i < slides.length; i++) {
slides[i].style.display = "none";}
slideIndex++;
if (slideIndex > slides.length) {slideIndex = 1}
slides[slideIndex-1].style.display = "block";
setTimeout(showSlides, 300); }
var mybutton = document.getElementById("myBtn");
window.onscroll = function() {scrollFunction()};
function scrollFunction(){
if (document.body.scrollTop > 20 ){
mybutton.style.display = "block";}

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else { mybutton.style.display = "none"; }}
// When the user clicks on the button, scroll to the top of the document
function topFunction() {
    document.body.scrollTop = 0;
}
</script>
</body>
</html>

```

2. **flowercrop.php**

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Blossoms at Backyard : Home : Flower Crops</title>
</head>
<body>
    <div class="bg-img">
<div class="category-container"><hr style="border-width:20px; border-
    color:#4CB229"><div class="hr-container" style="top:5px;left:42%"><a>Cut
    Flowers</a></div></hr><div class="img-container"
    style="left:25px;top:70px;width:75%"> <a href="cutrose.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Cut rose</div></a></div></div>
<div class="img-container" style="left:320px;top:70px;width:75%">
<a href="cutchrysanthemum.php">
<div class="overlay">
    <div class="text" style="cursor:pointer">Cut Chrysanthemum</div></a></div></div>
<div class="img-container" style="left:615px;top:70px;width:75.5%">
<a href="carnation.php">
<div class="overlay"><div class="text" style="cursor:pointer">Carnation</div></a>
    </div></div>
<div class="img-container" style="left:25px;top:280px;width:75.5%">
<a href="anthurium.php">img src="Anthurium.jpg" class="image">
<div class="overlay">div class="text" style="cursor:pointer">Anthurium</div></a>
</div></div><div class="img-container" style="left:320px;top:280px;width:75.5%">
<a href="dendrobium.php">
    <div class="overlay"><div class="text"
    style="cursor:pointer">Dendrobium</div></a></div></div>
<div class="img-container" style="left:615px;top:280px;width:75.5%">
    <a href="lilium.php">

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<div class="overlay">
<div class="text" style="cursor:pointer">Lilium</div></a></div></div>
    <div class="img-container" style="left:25px;top:495px;width:75.5%;height:185px">
<a href="gladious.php">
<div class="overlay">
    <div class="text" style="cursor:pointer">Gladious</div></a></div></div>
    <div class="img-container" style="left:320px;top:495px;width:75%;height:185px">
<a href="gerbera.php">
<div class="overlay"><div class="text" style="cursor:pointer">Gerbera</div></a>
</div></div><div class="img-container" style="left:615px;top:495px;
width:77.5%;height:185px"><a href="chinaster.php">
<div class="overlay">
<div class="text" style="cursor:pointer">China-aster</div></a></div></div>
<hr width:20px;position:absolute;top:700px;width:93%;bordercolor:#CE1125">
<div class="hr-container" style="position:absolute;top:692px;left:42%"><a>Loose
Flowers</a></div></hr><div class="img-
container" style="left:25px;top:760px;width:77.5%;height:185px">
<a href="rose.php">
<div class="overlay"><div class="text" style="cursor:pointer">Rose</div></a>
</div></div><div class="overlay">
<div class="text" style="cursor:pointer">Crossandra</div></a></div></div>
<div class="img-container" style="left:615px;top:760px;width:77.5%;
height:185px"><a href="chrysanthemum.php">
    
    <div class="overlay">
        <div class="text" style="cursor:pointer">Chrysanthemum</div></a></div></div>
    <div class="img-container"
style="left:25px;top:975px;bottom:300px;width:77.5%;height:185px">
<a href="marigold.php"><div class="overlay">
<div class="text" style="cursor:pointer">Marigold</div></a></div></div>
<div class="img-container" style="left:320px;top:975px;bottom:300px;
width:78%;height:185px">
<a href="tuberrose.php">
    
    <div class="overlay">
        <div class="text" style="cursor:pointer">Tuberrose</div></a></div></div>
<div class="img-container"
style="left:615px;top:975px;bottom:300px;width:78%;height:185px">
    <a href="nerium.php">

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<div class="overlay">
  <div class="text" style="cursor:pointer">Nerium</div> </a>
</div> </div> <hr style="border-
width:2px;opacity:0;position:absolute;top:1150px;width:100%"> <div class="hr-container"
style="position:absolute;top:1150px"> <a> </a> </div> </hr>
</div> <div class="footer">
<div class="container" style="width:1000px;height:120px;font-family:Merienda One;font-
size:48px;background-color:rgba(0,0,0,0.0);position:relative;top:-5px;left:40px"> <p
style="font-family:Dancing Script;font-weight:bold;font-size:43px;position:relative;top:-
60;left:40px;color:white;"> Blossoms at
Backyard </p> </div> <div> <a href="https://www.facebook.com/blossomsatbackyard"
style="position:relative;left:480px;top:-175"> <i class="fab fa-facebook-square"
style="font-size:35px;color:#0F19B6"> </i> </a>
<a href="https://www.instagram.com/blossomsatbackyard/"
style="position:relative;left:500px;top:-175;height:20px"> <i class="fab fa-instagram"
style="font-size:35px;color:#9E0562"> </i> </a> </div>
<div> <hr style="width:1200px;position:relative;top:-160px;left:60px;border-
color:white"> </hr> </div>
<div class="container" style="width:500px;height:20px;font-family:Candara Light;font-
size:16px;color:white;background-color:rgba(0,0,0,0.0);position:relative;top:-
145px;left:780px"> <a href="Terms.php" style="color:white">Terms of service</a> &nbsp;
&nbsp; &nbsp; <a href="Aboutus.php" style="color:white">About Us</a> &nbsp; &nbsp; &nbsp;
&nbsp; <a href="help.php" style="color:white">Help</a> &nbsp; &nbsp; &nbsp; &nbsp; <a
href="directory.php" style="color:white">Directory</a> &nbsp; &nbsp; &nbsp; &nbsp; <a
href="FAQ.php" style="color:white">FAQ</a> &nbsp; &nbsp; &nbsp; &nbsp; <a href="events.php"
style="color:white">Events</a>
<div class="container" style="width:350px;height:200px;font-family:Candara Light;font-
size:16px;color:white;background-color:rgba(0,0,0,0.0);position:relative;top:-40px;left:-
700px"> <p style="font-weight:bold;font-size:20px">Get in touch with us<br>Contact us
at:</p> <p>Shivani Awatade<br>Sushmita Paunekar<br>G.S.College of Commerce and
Economics, Nagpur<br>Phone No. +07172258700<br>Email us at:
blossomsatbackyard@gmail.com<br>©Blossoms at Backyard 2020</p> </div>
</div> </div> </div>
<script>
  function openNav() {
    document.getElementById("mySidenav").style.width = "250px";
  }
  function closeNav() {
    document.getElementById("mySidenav").style.width = "0";
  }

```

```
</script>
</body>
</html>
```

3. vegetablecrop.php

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Blossoms at Backyard : Home : Vegetable Crops</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#149E06;">
<div class="hr-container" style="left:380px"><a>Fruit Vegetables</a></div></hr>
  <div class="img-container" style="left:25px;top:70px;width:500px;height:150px">
    <a href="tomato.php">
      <div class="overlay">
        <div class="text" style="cursor:pointer">Tomato</div></a> </div></div>
      <div class="img-container" style="left:250px;top:70px;width:500px;height:150px">
        <a href="ladyfinger.php">
          
          <div class="overlay">
            <div class="text" style="cursor:pointer">Ladyfinger</div></a></div></div>
          <div class="img-container" style="left:475px;top:70px;width:500px;height:150px">
            <a href="brinjal.php">
              
              <div class="overlay">
                <div class="text" style="cursor:pointer">Eggplant(Brinjal)</div></a></div></div>
                <div class="img-container" style="left:700px;top:70px;width:500px;height:150px">
                  <a href="chilli.php">
                  <div class="overlay"><div class="text" style="cursor:pointer">Chillies</div></a>
                  </div></div><div class="img-
                    container"style="left:25px;top:250px;width:500px;height:150px"><a
                      href="capcicum.php"> 
                    <div class="overlay">
                      <div class="text" style="cursor:pointer">Capsicum</div></a><div></div>
                    <div class="img-container" style="left:250px;top:250px;width:500px;height:150px">
                      <a href="paparika.php">
                        
```



```

<div class="overlay">
<div class="text" style="cursor:pointer">Paparika</div></a></div></div>
<div class="img-container" style="left:475px;top:250px;width:500px;height:150px">
<a href="pumpkin.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Pumpkin</div></a></div></div>
<div class="img-container" style="left:700px;top:250px;width:500px;height:150px">
<a href="ribbedgourd.php"><div class="overlay"><div class="text"
style="cursor:pointer">Ribbed gourd</div></a></div></div>
<div class="img-container" style="left:25px;top:430px;width:500px;height:150px">
<a href="bottlegourd.php"><div class="overlay">
<div class="text" style="cursor:pointer">Bottle gourd</div></a></div></div>
<div class="img-container" style="left:250px;top:430px;width:500px;height:150px">
<a href="bittergourd.php"><div class="overlay"><div class="text"
style="cursor:pointer">Bitter gourd</div></a></div></div>
<div class="img-container" style="left:475px;top:430px;width:500px;height:150px">
<a href="cucumber.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Cucumber</div></a></div></div>
<div class="img-container" style="left:700px;top:430px;width:500px;height:150px">
<a href="appleghourd.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Apple gourd</div></a></div></div>
<div class="img-container" style="left:25px;top:610px;width:500px;height:150px">
<a href="cluster.php">img src="gawarr.jpg" class="image" style="height:150px">
<div class="overlay">
<div class="text" style="cursor:pointer">Cluster beans</div></a></div></div>
<div class="img-container" style="left:250px;top:610px;width:500px;height:150px">
<a href="lablab.php">
<div class="overlay"><div class="text" style="cursor:pointer">French beans</div></a>
</div></div>
<div class="img-container" style="left:700px;top:610px;width:500px;height:150px">
<a href="peas.php"><div
class="overlay"><div class="text" style="cursor:pointer">Peas</div></a></div>

```

```

</div>hr style="border-width:20px;position:absolute;top:790px;width:93%;border-
color:#149E06;"><div class="hr-container"
style="position:absolute;top:795px;left:43%"><a>Root Vegetables</a></div></hr>
<div class="img-container" style="left:25px;top:850px;width:500px;height:150px">
<a href="carrots.php">
<div class="overlay"><div class="text" style="cursor:pointer">Carrots</div></a>
</div></div>div class="img-
container"style="left:250px;top:850px;width:500px;height:150px">
<a href="radish.php">
<div class="overlay">div class="text" style="cursor:pointer">Radish
</div></a></div></div>
<div class="img-container" style="left:475px;top:850px;width:500px;height:150px">
<a href="potato.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Potato</div></a>
</div></div><div class="img-container"
style="left:700px;top:850px;width:500px;height:150px"><a href="sweetpotato.php">
<div
class="overlay"><div class="text" style="cursor:pointer">Sweet Potato</div></a>
</div></div><div class="img-
container"style="left:250px;top:1030px;width:500px;height:150px"><a
href="beet.php">

<div class="overlay">div class="text" style="cursor:pointer">Beet</div></a>
</div></div><div class="img-
container"style="left:475px;top:1030px;width:500px;height:150px"><a
href="tapioca.php">
<div class="overlay"><div class="text" style="cursor:pointer">Tapioca</div></a>
</div></div><hr style="border-
width:20px;position:absolute;top:1200px;width:854px;border-color:#149E06;"><div
class="hr-container" style="position:absolute;top:1205px;width:427px"><a
style="position:absolute;left:120px">Green-leafy Vegetables</a></div><div class="hr-
container"
style="position:absolute;top:1205px;left:630px;width:427px;float:right"><a>Cole-
Crops</a></div></hr><div class="img-container"
style="left:25px;top:1260px;width:500px;height:150px">
<a href="curryleaves.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Curry leaves</div></a></div></div>
<div class="img-container" style="left:250px;top:1260px;width:500px;height:150px">
<a href="celery.php">

```

```

<div class="overlay"><div class="text" style="cursor:pointer">Celery</div></a>
</div></div><div class="vl" style="top:1260px;left:460px"></div>
<div class="img-container" style="left:475px;top:1260px;width:500px;height:150px">
<a href="cabbage.php">

<div class="overlay"><div class="text" style="cursor:pointer">Cabbage</div></a>
</div></div>
<div class="img-container" style="left:700px;top:1260px;width:500px;height:150px"><a
href="cauliflower.php"><div class="overlay"><div class="text"
style="cursor:pointer">Cauliflower</div></a></div></div><hr style="border-
width:20px;position:absolute;top:1430px;width:93%;border-color:#149E06;"><div
class="hr-container" style="position:absolute;width:427px"><a
style="position:absolute;top:1415;left:120px">Bulb Vegetables</a></div><div
class="style="position:absolute;top:1435px;left:630px;width:427px;float:right"><a>Minor
Vegetables</a></div></hr><div class="img-container"
style="left:25px;top:1490px;width:500px;height:150px"><a href="springonion.php">

<div class="overlay"><div class="text" style="cursor:pointer">Spring
Onion</div></a></div></div><div class="img-container"
style="left:250px;top:1490px;width:500px;height:150px"> <a href="onion.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Onion</div></a>
</div></div><div class="img-
container" style="left:620px;top:1490px;width:500px;height:150px"><a
href="minor.php">
<div class="overlay"><div class="text" style="cursor:pointer">Minor
Vegetables</div></a> </div></div><hr style="border-
width:20px;opacity:0;position:absolute;top:1620px;width:100%""><div class="hr-
container" style="position:absolute;top:1450px"><a></a></div></hr>
</div><script>
function openNav() {
document.getElementById("mySidenav").style.width = "250px";}

function closeNav() {
document.getElementById("mySidenav").style.width = "0";
}
</script>
</body>
</html>

```

```

</div><hr style="border-
width:20px;opacity:0;position:absolute;top:1620px;width:100%"><div class="hr-
container" style="position:absolute;top:1450px"><a></a></div></hr>
</div>
<script>
function openNav() {
    document.getElementById("mySidenav").style.width = "250px";
}
function closeNav() {
    document.getElementById("mySidenav").style.width = "0";
}
</script>
</body>
</html>

```

4. fruits.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>
<title>Blossoms at Backyard : Home : Fruit Crops</title>
</head><body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#FFC603;"><div class="hr-
container"><a>Tropical and sub-tropical fruits</a></div></hr><div class="img-container"
style="left:25px;top:70px;width:500px;height:150px">
<a href="mango.php">
 <div class="overlay">
    <div class="text" style="cursor:pointer">Mango</div></a></div></div>
<div class="img-container" style="left:250px;top:70px;width:500px;height:150px">
<a href="bananas.php"><div
class="overlay">
<div class="text" style="cursor:pointer">Bananas</div></a></div></div><div class="img-
container" style="left:475px;top:70px;width:500px;height:150px">
<a href="sapota.php">
<div class="overlay"><div class="text"
style="cursor:pointer">Sapota(Chiku)</div></a></div></div>
<div class="img-container" style="left:700px;top:70px;width:500px;height:150px">
<a href="papaya.php">
<div class="overlay"><div class="text" style="cursor:pointer">Papaya</div></a>

```

```

</div></div><div class="img-container"
style="left:25px;top:250px;width:500px;height:150px"><a href="guava.php">

<div class="overlay"><div class="text" style="cursor:pointer">Guava</div></a>
</div><div><div class="img-container"
style="left:250px;top:250px;width:500px;height:150px"><a href="lime.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Lime</div></a></div></div><div class="img-
container" style="left:475px;top:250px;width:500px;height:150px">
<a href="sweetorange.php"><div class="overlay">
<div class="text" style="cursor:pointer">Sweet-orange</div></a></div></div>
<div class="img-container" style="left:700px;top:250px;width:500px;height:150px">
<a href="grapes.php">
<div class="overlay"><div class="text" style="cursor:pointer">Grapes</div></a>
</div></div><div class="img-container"
style="left:25px;top:430px;width:500px;height:150px"><a href="pineapple.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Pineapple</div></a></div></div><div
class="img-container" style="left:250px;top:430px;width:500px;height:150px">
<a href="pomegranate.php">

<div class="overlay"><div class="text"
style="cursor:pointer">Pomegranate</div></a></div></div><div class="img-container"
style="left:475px;top:430px;width:500px;height:150px">
<a href="jackfruit.php">
<div class="overlay"><div class="text" style="cursor:pointer">Jack fruit</div></a>
</div></div> <div class="img-
container" style="left:700px;top:430px;width:500px;height:150px"><a
href="ber.php"><div
class="overlay">
<div class="text" style="cursor:pointer">Thai apple(Ber)</div></a>
</div></div><div class="img-container"
style="left:250px;top:610px;width:500px;height:150px"><a href="amla.php">
 <div class="overlay">
<div class="text" style="cursor:pointer">Indian-Gooseberry(Amla)</div></a></div>
</div><div class="img-container"
style="left:475px;top:610px;width:500px;height:150px"><a href="jamun.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Java Plum(Jamun)</div></a></div></div>

```

```

<hr style="border-width:20px;position:absolute;top:790px;width:93%;border-
color:#FFC603;"><div class="hr-container"
style="position:absolute;top:795px;left:43%"><a>Temperate Fruits</a></div></hr>
  <div class="img-container" style="left:25px;top:850px;width:500px;height:150px">
<a href="apple.php">
<div class="overlay"><div class="text" style="cursor:pointer">Apple</div></a>
</div></div><div class="img-
container" style="left:250px;top:850px;width:500px;height:150px"><a
href="pear.php">
<div class="overlay"><div class="text" style="cursor:pointer">Pear</div></a>
</div></div><div class="img-container"
style="left:475px;top:850px;width:500px;height:150px"><a href="plum.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Plum</div></a></div></div>
<div class="img-container" style="left:700px;top:850px;width:500px;height:150px">
<a href="peach.php">
<div class="overlay"><div class="text" style="cursor:pointer">Peach</div></a>
</div></div><hr style="border-
width:20px;position:absolute;top:1020px;width:93%;border-color:#FFC603;"><div
class="hr-container" style="position:absolute;top:1025px;left:43%"><a>Minor
Fruits</a></div></hr><div class="img-container"
style="left:320px;top:1080px;width:75.5%"><a href="minor.php"><div class="overlay"><div class="text" style="cursor:pointer">Minor
fruits</div></a></div></div><hr style="border-
width:20px;opacity:0;position:absolute;top:1250px;width:100%"><div class="hr-
container" style="position:absolute;top:1150px"><a></a></div></hr></div></div>
<script>
function openNav() {
  document.getElementById("mySidenav").style.width = "250px";}

function closeNav() {
  document.getElementById("mySidenav").style.width = "0";}
</script>
</body>
</html>

```

5. plantncrop.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>

```

```

<title>Blossoms at Backyard : Home : Plantation Crops</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px; border-color:#53302D"><div class="hr-
container"><a>Plantation</a></div></hr>
<div class="img-container" style="left:25px;top:70px;width:75%">
<a href="tea.php"><div class="overlay">
<div class="text" style="cursor:pointer">Tea</div></a></div></div>
<div class="img-container" style="left:320px;top:70px;width:75%">
<a href="coffee.php">
<div class="overlay"><div class="text" style="cursor:pointer">Coffee</div></a>
</div></div><div class="img-container" style="left:615px;top:70px;width:75.5%">
<a href="coconut.php">
<div class="overlay"><div class="text" style="cursor:pointer">Coconut</div></a>
</div></div><div class="img-container" style="left:25px;top:280px;width:75.5%">
<a href="arecanut.php"><div
class="overlay"><div class="text" style="cursor:pointer">Arecanut</div></a></div>
</div><div class="img-container" style="left:320px;top:280px;width:75.5%">
<a href="rubber.php"><div class="overlay"> <div
class="text" style="cursor:pointer">Rubber</div></a></div></div>
<div class="img-container" style="left:615px;top:280px;width:75.5%"><a
href="cashew.php"><div class="overlay">
<div class="text" style="cursor:pointer">Cashew</div></a></div></div><div class="img-
container" style="left:25px;top:495px;width:75.5%;height:185px">
<a href="cocoa.php">
<div class="overlay"><div class="text" style="cursor:pointer">Cocoa</div></a>
</div></div>
<div class="img-container" style="left:320px;top:495px;width:75%;height:185px"><a
href="oilpalm.php">
<div class="overlay"><div class="text" style="cursor:pointer">Oil Palm</div></a>
</div></div><div class="img-container"
style="left:615px;top:495px;width:77.5%;height:185px">
<a href="palmyra.php"><div
class="overlay"><div class="text"
style="cursor:pointer">Palmyra</div></a></div></div><div class="img-container"
style="left:320px;top:705px;width:77.5%;height:185px"><a href="betel.php"><div class="overlay"><div
class="text" style="cursor:pointer">Betelvine</div></a></div></div><hr style="border-

```

```
width:2px;opacity:0;position:absolute;top:915px;width:100%""><div class="hr-container"
style="position:absolute;top:915px"><a></a></div></hr></div>
</div>
<script>
function openNav() {
    document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
    document.getElementById("mySidenav").style.width = "0";}
</script>
</body>
</html>
```

6. spicecrop.php

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src="https://kit.fontawesome.com/a076d05399.js"></script><title>Blossoms at
Backyard : Home : Spice Crops</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#BA5E0C;"><div class="hr-container"
style="left:380px"><a>Major Spices</a></div></hr>
    <div class="img-container" style="left:25px;top:70px;width:500px;height:150px">
        <a href="ginger.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Ginger</div></a></div></div>
<div class="img-container" style="left:250px;top:70px;width:500px;height:150px">
<a href="blackpep.php"><div class="overlay"><div class="text"
style="cursor:pointer">Black Pepper</div></a></div></div>
<div class="img-container" style="left:475px;top:70px;width:500px;height:150px">
<a href="cardamom.php"><div class="overlay"><div class="text"
style="cursor:pointer">Cardamom</div></a></div></div>
<div class="img-container" style="left:700px;top:70px;width:500px;height:150px">
<a href="turmeric.php"><div
class="overlay"><div class="text" style="cursor:pointer">Turmeric</div></a></div>
</div>
```



```

<hr style="border-width:20px;position:absolute;top:230px;width:93%;border-
color:#BA5E0C;"><div class="hr-container" style="left:380px;top:235px;"><a>Seed
Spices</a></div></hr><div class="img-container"
style="left:25px;top:280px;width:500px;height:150px"><a href="coriander.php">

<div class="overlay"><div class="text" style="cursor:pointer">Coriander</div></a>
</div></div><div class="img-container"
style="left:250px;top:280px;width:500px;height:150px"> <a href="fenugreek.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Fenugreek</div></a></div></div><div class="img-
container" style="left:475px;top:280px;width:500px;height:150px"><a
href="mustard.php">

<div class="overlay"><div class="text" style="cursor:pointer">Mustard</div></a>
</div></div><div class="img-container"
style="left:700px;top:280px;width:500px;height:150px"><a href="fennel.php">
<div class="overlay">
<div class="text" style="cursor:pointer">Fennel</div></a></div>
</div><hr style="border-width:20px;position:absolute;top:450px;width:93%;border-
color:#BA5E0C;"><div class="hr-container"
style="position:absolute;top:455px;left:43%"><a>Tree spices</a></div></hr>
<div class="img-container" style="left:25px;top:500px;width:500px;height:150px">
<a href="clove.php">
<div class="overlay"><div class="text" style="cursor:pointer">Clove</div></a>
</div></div>
<div class="img-container" style="left:250px;top:500px;width:500px;height:150px">
<a href="allspice.php">
<div class="overlay"><div class="text"
style="cursor:pointer">Allspice</div></a></div></div>
style="left:475px;top:500px;width:500px;height:150px">
<a href="cinnamon.php"><div class="overlay">
<div class="text" style="cursor:pointer">Cinnamon</div></a>
</div></div><div class="img-container"
style="left:700px;top:500px;width:500px;height:150px"><a href="tamarind.php">

<div class="overlay"><div class="text" style="cursor:pointer">Tamarind</div></a>
</div></div><hr style="border-width:20px;position:absolute;top:670px;width:93%;border-
color:#BA5E0C;"><div class="hr-container"
style="position:absolute;top:675px;left:43%"><a>Other spices</a></div></hr><div

```

```

class="img-container" style="left:135px;top:720px;width:500px;height:150px"><a
href="vanilla.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Vanilla</div></a></div></div><div class="img-
container" style="left:360px;top:720px;width:500px;height:150px"><a
href="paprika.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Paprika</div></a></div>
</div><div class="img-container"
style="left:585px;top:720px;width:500px;height:150px"><a href="garlic.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Garlic</div></a></div>
</div><hr style="border-
width:20px;opacity:0;position:absolute;top:860px;width:100%"><div class="hr-container"
style="position:absolute;top:880px"><a></a></div></hr></div>
<script>
function openNav() {
    document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
    document.getElementById("mySidenav").style.width = "0";}
</script>
</body>
</html>

```

7. medcrop.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>
<title>Blossoms at Backyard : Home : Medicinal Crops</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#10872F;"><div class="hr-container"
style="position:relative;left:42%;top:-30px"><a>Medicinal Crops</a></div></hr>
<div class="img-container" style="left:25px;top:70px;width:500px;height:150px">
<a href="vallarai.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Vallarai</div></a></div></div>

```

```

<div class="img-container" style="left:250px;top:70px;width:500px;height:150px">
<a href="brahmi.php">
<div class="overlay"><div class="text" style="cursor:pointer">Brahmi</div></a>
</div></div><div class="img-container"
style="left:475px;top:70px;width:500px;height:150px"><a href="blacknight.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Blacknight Shade</div></a></div></div><div
class="img-container" style="left:700px;top:70px;width:500px;height:150px"><a
href="sappanwood.php">
<div
class="overlay"><div class="text" style="cursor:pointer">Sappan Wood</div></a>
</div></div><div class="img-container"
style="left:25px;top:250px;width:500px;height:150px"><a href="gymnema.php">

<div class="overlay"><div class="text" style="cursor:pointer">Gymnema</div></a>
</div></div><div class="img-container"
style="left:475px;top:430px;width:500px;height:150px"><a href="solanum.php">

<div class="overlay"><div class="text" style="cursor:pointer">Medicinal
solanum</div></a></div></div>
<div class="img-container" style="left:25px;top:790px;width:500px;height:150px"><a
href="coleus.php">
<div class="overlay"><div class="text" style="cursor:pointer">Medicinal
coleus</div></a></div></div><div class="img-container"
style="left:250px;top:790px;width:500px;height:150px"><a href="phylanthus.php"><div class="overlay"><div
class="text" style="cursor:pointer">Phylanthus</div></a></div></div>
<div class="img-container" style="left:475px;top:790px;width:500px;height:150px">
<a href="gloriosa.php"><div
class="overlay"><div class="text"
style="cursor:pointer">Gloriosa</div></a></div></div><div class="img-container"
style="left:700px;top:790px;width:500px;height:150px"> <a href="tulsi.php"><div class="overlay"><div
class="text" style="cursor:pointer">Tulsi</div></a></div></div><hr style="border-
width:20px;opacity:0;position:absolute;top:920px;width:100%""><div class="hr-container"
style="position:absolute;top:920px"><a></a></div></hr>
</div></div>
<script>
function openNav() {
    document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {

```

```
document.getElementById("mySidenav").style.width = "0";}
</script></body></html>
```

8. aromacrop.php

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Blossoms at Backyard : Home : Aromatic Crops</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#A37CD8;"><div class="hr-container"
style="position:relative;left:42%;top:-35px"><a>Aromatic Crops</a></div></hr>
<div class="img-container" style="left:25px;top:70px;width:500px;height:150px">
<a href="rosemary.php">

<div class="overlay"><div class="text" style="cursor:pointer">Rosemary</div>
</a></div>
</div><div class="img-container"
style="left:250px;top:70px;width:500px;height:150px"><a href="vetiver.php">

<div class="overlay"><div class="text"
style="cursor:pointer">Vetiver</div></a></div></div>
<div class="img-container" style="left:475px;top:70px;width:500px;height:150px">
<a href="lemongrass.php"><div class="overlay">
<div class="text" style="cursor:pointer">Lemongrass</div></a></div>
</div><div class="img-container" style="left:700px;top:70px;width:500px;height:150px">
<a href="citronella.php"><div class="overlay"><div class="text"
style="cursor:pointer">Citronella</div></a></div></div>
<div class="img-container" style="left:250px;top:250px;width:500px;height:150px">
<a href="patchouli.php"><div class="overlay"><div class="text"
style="cursor:pointer">Patchouli</div></a></div></div>
<div class="img-container" style="left:475px;top:250px;width:500px;height:150px">
<a href="mint.php"><div
class="overlay"><div class="text" style="cursor:pointer">Mint</div></a></div></div><hr
style="border-width:20px;opacity:0;position:absolute;top:380px;width:100%"><div
```

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class="hr-container"
style="position:absolute;top:380px"><a></a></div></hr></div></div>
</div>
<script>
function openNav() {
    document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
    document.getElementById("mySidenav").style.width = "0";}
</script>
</body>
</html>

```

9. landscape.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Blossoms at Backyard : Home : Landscaping and Decor</title>
</head><body><div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#BA5E0C;"><div class="hr-container"
style="position:relative;left:42%;top:-35px"><a>Landscaping</a></div></hr>
<div class="img-container" style="left:25px;top:70px;width:500px;height:150px">
<a href="principles.php">

<div class="overlay"><div class="text" style="cursor:pointer">Principles</div></a>
</div></div>
<div class="img-container" style="left:250px;top:70px;width:500px;height:150px">
<a href="features.php"><div class="overlay"><div class="text"
style="cursor:pointer">Garden Features</div></a></div></div>
<div class="img-container" style="left:475px;top:70px;width:500px;height:150px">
<a href="plantcomp.php"><div class="overlay"><div class="text" style="cursor:pointer">Plant
Components</div></a></div></div>
<div class="img-container" style="left:700px;top:70px;width:500px;height:150px">
<a href="types.php">
<div class="overlay"><div class="text" style="cursor:pointer">Types of
Garden</div></a></div></div><div class="img-container"
style="left:25px;top:250px;width:500px;height:150px"><a href="nurseryman.php"><div class="overlay"><div
class="text" style="cursor:pointer">Nursery Management</div></a></div></div>
<div class="img-container" style="left:250px;top:250px;width:500px;height:150px">
<a href="vergarden.php"><div class="overlay"><div class="text"
style="cursor:pointer">Verticle Garden</div></a></div></div>
<div class="img-container" style="left:475px;top:250px;width:500px;height:150px">
<a href="hangcon.php"><div class="overlay"><div
class="text" style="cursor:pointer">Hanging Containers</div></a></div></div><div
class="img-container" style="left:700px;top:250px;width:500px;height:150px">
<a href="terrarium.php"><div class="overlay"><div class="text"
style="cursor:pointer">Terrarium</div></a></div></div><div class="img-container"
style="left:25px;top:430px;width:500px;height:150px">
<a href="lawnmak.php"><div class="overlay">
<div class="text" style="cursor:pointer">Lawn Making</div></a></div></div>
<div class="img-container" style="left:250px;top:430px;width:500px;height:150px">
<a href="flowerarr.php">
<div class="overlay"><div
class="text" style="cursor:pointer">Flower Arrangement</div></a></div></div><div
class="img-container" style="left:475px;top:430px;width:500px;height:150px"> <a
href="bonsai.php"><div
class="overlay"><div class="text" style="cursor:pointer">Bonsai</div></a></div></div>
<div class="img-container" style="left:700px;top:430px;width:500px;height:150px">
<a href="roofgarden.php">

<div class="overlay">
<div class="text" style="cursor:pointer">Roof Garden</div></a></div></div>
<div class="img-container" style="left:250px;top:610px;width:500px;height:150px">
<a href="gardenwaste.php"><div class="overlay">
<div class="text" style="cursor:pointer">Garden Waste</div></a></div></div><div
class="img-container" style="left:475px;top:610px;width:500px;height:150px">
<a href="kitchengar.php"><div class="overlay"><div class="text"
style="cursor:pointer">Kitchen Garden</div></a></div></div>
<hr style="border-width:20px;opacity:0;position:absolute;top:750px;width:100%""><div
class="hr-container"
style="position:absolute;top:750px"><a></a></div></hr></div></div>

```

```

<script>
function openNav() {
  document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
  document.getElementById("mySidenav").style.width = "0";}
</script> </body> </html>

```

10. valueadd.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src='https://kit.fontawesome.com/a076d05399.js'></script>
<title>Blossoms at Backyard : Home : Value Addition</title>
</head>
<body>
<div class="bg-img">
<div class="category-container">
<hr style="border-width:20px;border-color:#46AF51;"><div class="hr-container"
style="position:relative;left:42%;top:-35px"><a>Value Addition</a></div></hr>
<div class="img-container" style="position:relative;top:-
12px;left:20px;height:180px;width:260"><a href="vegcrop.php"><div class="overlay"
style="height:165px;width:250px"><div class="text" style="cursor:pointer">Vegetable
crop</div></div></a></div><div class="img-container"
style="top:70px;left:340px;height:180px;width:260"><a href="fruitcrop.php"><div
class="overlay" style="height:165px;width:250px"><div class="text"
style="cursor:pointer">Fruit crop</div></div></a>
</div><div class="img-container" style="top:70px;left:640px;height:180px;width:260">
<a href="plantncrop.php">
<div class="overlay" style="height:165px;width:250px"><div class="text"
style="cursor:pointer">Plantation crop</div></div></a></div>
<div class="img-container" style="top:260px;left:180px;height:180px;width:260">
<a href="spicecrop.php"><div class="overlay"
style="height:165px;width:250px"><div class="text" style="cursor:pointer">Spice
crop</div></div></a></div>
<div class="img-container" style="top:260px;left:500px;height:180px;width:260">

```

```

<a href="medcrop.php"> <div class="overlay"
style="height:165px;width:250px">
<div class="text" style="cursor:pointer">Medicinal crop</div></div></a></div></div>
<hr style="border-width:20px;opacity:0;position:absolute;top:380px;width:100%"><div
class="hr-container"
style="position:absolute;top:380px"><a></a></div></hr></div></div>
</div><script>
function openNav() {
  document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
  document.getElementById("mySidenav").style.width = "0";}
</script></body></html>

```

11.events.php

```

<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<script src="https://kit.fontawesome.com/a076d05399.js"></script>
<title>Blossoms at Backyard : Home : Events</title>
</head>
<div class="category-container">
<hr style="border-width:20px;border-color:#FFC603;"><div class="hr-container"
style="left:400px"><a>Events</a></div></hr>
<p style="font-family:Bookman Old Style;font-size:28px;font-weight:bold;left:20px;top:-
10px;position:relative" align="center">Organic Kitchen Gardening and Home Composting
Workshop</p><p style="font-family:Bookman Old Style;font-size:30px;font-
weight:bold;color:#DD0505;position:relative;left:20px;top:-100px" title="1 March
2020">Mar</p><p style="font-family:Bookman Old Style;font-size:38px;font-
weight:bold;position:relative;left:30px;top:-140px" title="1 March 2020">1</p>
<p style="font-weight:bold;position:relative;top:-140px;font-size:25px;font-family:Bookman Old Style">Details:</p><p style="position:relative;top:-140px;font-size:25px;font-family:Bookman Old Style" align="justify">Kitchen gardening connects you with healthy soil and healthy food- be it in your balcony, terrace, window grill or backyard. Urban apartments can very well be home to many useful edible plants that can nourish us and our families. No formulas! Just unraveling of the simple mysteries of nature that will give you all the practical knowledge needed to kick-start your organic kitchen garden!</p><p style="position:relative;top:-140px;font-size:25px;font-family:Bookman Old Style">The workshop will also include a module on home kitchen waste composting, and application of that in your garden!</p>

```


<p style="position:relative;top:-140px;font-size:25px;font-family:Bell MT">This practical workshop will cover :</p><ul style="position:relative;top:-140px;font-size:25px;font-family:Bell MT">Basics of Soil Ecology

 Making a Living Soil potTransplantingSowing seeds

Mulching Re-using different containers as planters

DIY Drip Irrigation methodsSapling Making bottle planter

What to grow when Sowing CalendarHome-made pest remedies

Health and Maintenance of your plantsKitchen-waste Composting at Home Made easy!

<p style="font-family:Bell MT;position:relative;top:-140px;font-size:25px">

Includes - Living Soil Starter Kit

Its a free event. Everyone from children to oldies can attend it.

Looking forward to meeting you all!

Happy Gardening. :)</p>

<button style="background-color:red;width:200px;color: white;padding: 14px 20px;border: none;border-radius:15px;cursor: pointer;opacity: 0.8;font-family:'Bell MT';font-size:18px;position:relative;top:-140px;left:230px">Intrested</button>

<button style="background-color:#FFC603;width:200px;color: black;padding: 14px 20px;border: none;border-radius:15px;cursor: pointer;opacity: 0.8;font-family:'Bell MT';font-size:18px;position:relative;top:-140px;left:280px">Going</button><hr style="border-width:2px;border-color:#53302D;position:relative;top:-120px;"></hr> </div> </div><script>

function openNav() {

document.getElementById("mySidenav").style.width = "250px";}

function closeNav() {

document.getElementById("mySidenav").style.width = "0";}

</script></body></html>

12.FAQ.php

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<script src='https://kit.fontawesome.com/a076d05399.js'></script>

<title>Blossoms at Backyard : Home :FAQ</title>

</head>

<body>

```

<div class="bg-img">
<div class="text-container" style=" font-family: Merienda One;font-size:20px;">
<hr style="border-width:20px; border-color:#53302D;border-style: solid;"><div class="hr-
container" style="position:relative;left:300px;top:-35px"><a>Frequently asked
questions</a></div></hr>
<button class="accordion" style="position:relative;top:0px"><i class="fas fa-angle-
down"></i>&nbsp;Fruit Crops</button>
<div class="panel"><ol>
<li style="font-weight:bold">What are the mango varieties suitable for
processing?</li><p>Alphonso, Banganapalli, Totapuri </p>
<li style="font-weight:bold"> Name some mango varieties suited for export?</li>
<p>Alphonso, Banganapalli, Sendura</p><li style="font-weight:bold"> Can I use mango
seedlings for commercial planting?</li>
<p>No. Grafts should be used for commercial planting.</p>
<li style="font-weight:bold">How can I induce flowering in mango?</li>
<p>During February 0.5% Urea (5 g/lit.) or 1% Potassium Nitrate (10g/lit.) may be sprayed
to induce flowering in mango.</p>
<li style="font-weight:bold">Suggest some alternate methods for biennial
bearing.</li><p>i.Plant regular bearing varieties like Banglora, PKM 1, PKM 2.<br>
ii.Follow regular cultural practices like manuring, pruning, watering and plant protection
measures.</p><li style="font-weight:bold">What are the culinary varieties in
Banana?</li><p>Monthan, Nendran, Vayal vazhai, Ash Monthan and Chakkia.</p><li
style="font-weight:bold">Name some banana varieties suitable for hilly
areas.</li><p>Virupakshi, Sirumalai and Namaran, Red Banana, Manoranjitham (Santhana
vazhai) and Ladan.</p><li style="font-weight:bold">What is meant by sucker treatment in
banana?</li><p align="justify">Select sword suckers of 1.5 to 2.0 kg weight, free from
diseases and nematodes.Trim the roots and decayed portion of the corm, cut the pseudostem
leaving 20 cm from the corm and grade the suckers to size. To avoid wilt disease, infected
portions of the corn may be pared, dipped for 5 minutes in 0.1% Emisan solution (1 g in 1
lit of water) in Rasthali, Monthan, Neyvannan, Virupakshi and other wilt susceptible
varieties.
Pralinage with 40 g of Carbofuran 3 G granules per sucker.
(Dip the corm in slurry solution of 4 parts clay plus 5 parts water and sprinkle Carbofuran
to control nematodes). Alternatively, dip the corm with 0.75% Monocrotophos, shade dry
for atleast 24 hours and plant.</p>
<li style="font-weight:bold">What is the use of bunch covering in banana?</li>
<p>Uniform bunch maturity, free from pest and disease infection, bruises and black
spots.</p><li style="font-weight:bold"> What is meant by kottavazhai in banana and which
variety is more susceptible for that disease?</li>
<p align="justify">Kottavazhai is seediness in banana especially in poovan varieties. This is
can be controlled by spraying 2,4 – D at the rate of 25 ppm within 20 days after opening of

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last hand (1 g/40 lit/200 bunches) or 1.2 g of Sodium salt of 2,4 – D dissolved in 40 lit of water for 200 bunches.

How can I get more yield in acid lime?

Fruit set in acid lime can be increased by 2,4,D @ 20 ppm during flowering. Similarly the fruit retention can be achieved by spraying 2,4,D @ 20 ppm / NAA 30 ppm after fruit set (marble size).

What is the method of training adopted for growing grapes?

Pandal system

Suggest some of the methods to increase grape yield and quality.

Dip the clusters in solution containing Brassinosteroid 0.5 ppm and GA3 25 ppm at 10 -12 days after fruit set.

How can I increase the berry size in grapes?

Dip the clusters of Thomson seedless and other seedless varieties at calyptra fall with 25 ppm GA (25 mg/lit) and repeat again at pepper stage to increase the size of berries.

How to prepare Bordeaux mixture?

A quantity of 400 g of Copper sulphate should be dissolved in 20 lit of water and 400 g of lime in another 20 lit of water separately. The copper sulphate solution should be added to the lime solution constantly stirring the mixture. Earthen or wooden vessels and plastic containers alone should be used and metallic containers should not be used. To find out whether the mixture is in correct proportion, a polished knife should be dipped in the mixture for one minute and taken out. If there is reddish brown deposit of copper, additional quantity of lime should be added till there is no deposit in the knife.

How to control bronzing of leaves in guava?

Combined spraying of ZnSO₄, MgSO₄, and MnSO₄ @ 0.5 % and CuSO₄ and FeSO₄ @ 0.25 % + Teepol @ 1 ml per 5 lit. of solution on a new flush, one month of 1st spray, flowering and fruit set stage will control the bronzing of leaves in guava.

When I am cultivating potato, the cost of tuber itself occupies 2/3rd of cost of cultivation. Is there any alternative to reduce the cost of tubers?

Potato can also be propagated through true potato seeds. To raise one hectare of land 100 – 150 g of seeds are sufficient. Thereby the costs of inputs are greatly reduced.

What is the plant population to be maintained in sweet potato?

By adopting 20 cm spacing, in one hectare 80,000 plants can be planted

Sweet potato harvested from my field shows warts, punched / spots symptoms and market preference is less. What is the reason and suggest some ways for controlling them?

This is mainly due to sweet potato weevil infestation. This can be controlled by adopting the following the control measure

- i. Remove previous sweet potato crop residues and alternate host i.e., Ipomoea sp. and destroy them.
- ii. Use pest free planting materials.

iii. Dip the planting material in fenthion 100 EC or fenitrothion 50 EC or monocrotophos 36 WSC @ 2 ml/lit.

iv. Rake up the soil and earth up at 50 days after planting.

v. Drench the soil with endosulfan 35 EC or fenthion 100 EC at 2 ml/lit. Spray any one of the insecticides, if needed.

vi. Harvest the crop immediately after maturity and destroy the crop residues.</p>

An ordinary sized yam gives about 6 to 8 bits for planting. The cut pieces are dipped in cow dung solution to prevent evaporation of moisture from cut surface. In some places, the small round daughter corms are also planted. </p>

<li style="font-weight:bold">I want to cultivate peruvalli kizhangu. Suggest some suitable varieties for villupuram conditions.

<p align="justify">Co 1, Sree Roopa, Sree Keerthi, Sree Shilpa</p>

<li style="font-weight:bold">Name some varieties of siruvalli kizhangu for villupuram conditions.

<p align="justify">Sree Latha, Sree Kala</p>

<li style="font-weight:bold">In my onion field I can notice few white patches along with slender black insect. What is the control measure to be adopted for that?

<p align="justify">It is mainly due to thrips infestation. It can be controlled by Methyl Dematon 25 EC 1 ml/lit of water along with 0.5 ml/lit of teepol (sticking agent).</p>

<li style="font-weight:bold">In bellary onion, how many days old seedlings can be used for transplanting in the main field?

<p align="justify">45 days</p>

<li style="font-weight:bold">Name the variety suited for clipping type of amaranthus.

<p align="justify">Co 3</p>

<li style="font-weight:bold">What is the amaranthus variety suitable for grain extraction?

<p align="justify">Co 4</p>

<li style="font-weight:bold">Amaranthus seeds are very smaller and how can I use this little quantity of seed (2.5 kg) for one hectare.

<p align="justify">Broadcast the seeds evenly on the bed after mixing with 10 parts of sand. After that apply Lindane 1.3 % dust @ 10 kg/ha around the beds to control ants, termites and other burrowing insects.</p>

<li style="font-weight:bold"> I am cultivating Co 4 amaranthus variety in 1 hectare of land. What is the approximate yield of grains?

<p align="justify"></p></div>

<button class="accordion" style="position:relative;top:0px"><i class="fas fa-angle-down"></i> Spices & Plantation Crops</button>

<div class="panel">

<p align="center" style="font-weight:bold;font-size:20px">Spice Crops</p>

**<li style="font-weight:bold"> I am growing curry leaf and at present that plant height is more than 2 m but the yield is very low. Is there any important operation for boosting up the yield of crop? **

<li style="font-weight:bold">My land holdings are in lower pulneys hills and I would like to grow pepper. In that condition what kind of varieties can i select for commercial planting?

<li style="font-weight:bold">What is the variety suitable for growing in areca nut plantations?

<li style="font-weight:bold"> What kind of standards or supports can I select for cultivating pepper on commercial scale?

<li style="font-weight:bold">Is there any specialized technique for increasing the berry size in pepper?

<li style="font-weight:bold">When I sow the fresh cardamom seeds it shows poor germination percentage. Suggest some alternative methods to boost up the germination.

<li style="font-weight:bold"> In my cardamom estate I can notice streaks of yellow to pale green patches on the leaves. How to control that?

<li style="font-weight:bold">Poor fruit set was observed in my cardamom estate. Suggest some ways to increase the fruit/capsule set.

<li style="font-weight:bold">What is the ideal stage of harvesting in clove?

<li style="font-weight:bold">I want to go for commercial cultivation of nutmeg. What kind of planting materials can I select for that?

<li style="font-weight:bold">Most of my nutmeg plants are male plants and female plants are poor yielder. Is there any alternative method to convert all the plants into female plants and good yielder?

<li style="font-weight:bold">Suggest some ways for getting

higher yield in Cinnamon.<p align="justify">Young trees are cut close to the ground to produce side shoots. By heaping the soil around the stumps, more side shoots are produced from the base of the trees. This side shoots produce higher yield in cinnamon.</p>

<li style="font-weight:bold">During the time of harvesting lot of leafy materials are dumped as waste. Can I make use those leaves in a profitable way?

<p align="justify">The leaves are removed or stripped off from the stem and can be used for the extraction of cinnamon oil by steam distillation.</p>

<li style="font-weight:bold"> The harvested garlic from my field shows rubbery appearance. Is there any control measure for that?<p align="justify">Avoid excessive application of N to minimise rubberisation. N should not be applied in the form of Urea. Use Ammonium sulphate. Spray 1500 ppm of CCC or MH on 30th day of planting. Reduce the frequency of irrigation to minimise rubberisation. Apply 0.2 % Boron 0.1 % Sodium molybdate on 30th, 60th and 90th days after planting.</p><li style="font-weight:bold"> I

am sending my processed turmeric to a factory where they are extracting curcumin on a large scale. Suggest one variety with high curcumin content.<p align="justify">Allepy Finger Turmeric (AFT)</p><li style="font-weight:bold">At the time of harvest most of the turmeric rhizomes become rotted resulting in fragile powdery mass of rhizome. How to control that?<p align="justify">i. The seed rhizomes are dipped in Carbendazim 1 g/lit and Phosalone 35 EC 2ml/lit or Monocrotophos 1.5ml/lit for controlling rhizome rot.

ii. Drench with Bordeaux mixture 1 % or 0.25 % of Copper oxychloride.

iii. Treat the rhizomes with 0.3 % copper oxy chloride for 30 minutes before storage.</p><li style="font-weight:bold">How can I store the seed rhizome after the harvest?<p align="justify">The seed rhizomes are stored after heaping under shade of tree or in well ventilated shade and covered with turmeric leaves. Some times the heap is plastered with earth mixed cow dung. It can also be stored in pits with sawdust. The pits can be covered with wooden planks with one or two holes for aeration.</p>

<li style="font-weight:bold">Suggest some best intercrops for turmeric cultivation.<p align="justify">Onion, Coriander and Fenugreek</p>

<li style="font-weight:bold">What are the ideal standards suitable for vanilla cultivation?

<p align="justify">Glyricidia, Erythrina indica, Jatropha curcus, Plumeria alba, Casuarina equisetifolia and as multitier crop in coconut plantations</p>

<li style="font-weight:bold">Whether the artificial pollination is needed in vanilla cultivation? If so mention the method of pollination?

<p align="justify">Yes. Artificial pollination is needed for getting higher yield.

The artificial pollination is useful in vanilla and pollination must be done on the same day as flowers opening from 4.00 am to 1.00 pm.

About to 10 to 20 inflorescence may be pollinated in a vine.

Normally 5 to 6 flowers in the lower side of inflorescence pollinated.

Hand pollination using a needle or a piece of pointed wood or a tooth pick to lift the hood covering the anther cap. The standards are brought it in to contact with stigma. A

skilled worker can pollinate 1000 – 1500 flowers in a day.

What is the ideal stage of harvesting in vanilla? The pods are ready for harvest 6 to 9 months after planting. The matured beans change colour from green to pale yellow.

The right picking stage is when the distal end of the pods turns yellow.

How long I can maintain the vines? Or what is the economic life of vanilla vines? It can be maintained economically upto 12 – 14 years.

Plantation Crops

How many leaves should I harvest for the production of good quality tea? Two leaf and a bud.

What is the harvesting interval for plucking? During rush period, the harvesting interval is 7 – 10 days and during lean period at 10 – 15 days intervals.

Most of the leaves in my tea plantations show blister appearance or punctured leaves. Why and what is the remedy? This is mainly due to blister blight of tea. This can be controlled by

- i. Spray 210 g Copper oxychloride and Nickel chloride per ha at 5 days interval from June - September; 11 days intervals in October and November.

- ii. Hexagonazole 200 ml + Copper oxychloride 210 g 5 days interval/ha.
- iii. Copper oxychloride 210 g + 200 ml Propiconazole / ha 10 days interval.
- iv. Spray Contaf 85 g / Tilt 80 g + 85 g COC at 7 days interval starting from the onset of monsoon

Name some shade trees suitable for planting in coffee estates? Dadap and Silver oak are best suited

During summer dadap trees shows scorching symptom? How to control / overcome that? During summer the stem of dadap are painted with dilute lime or wrapped in agave leaves or polythene sheets to prevent from sun scorching.

For the past two years I could not get any proper blossom showers during March – April. Is there any alternative method for producing the blossom showers? Sprinkler irrigation during March – April is the ideal alternative system for blossom showers. After doing this operation uniform coffee flowering will be noticed in the estates.

What is the ideal stage for tapping the rubber? Trees attain tappable stage in about 7 years. First tapping in seedling trees will commence when the trunk attains a girth of 55 cm at 50 cm height from the ground. In budded trees the girth should be 50 cm at 125 cm height from the bud union.

Is there any method to increase the latex flow in rubber? Ethrel is recommended to increase latex yield of trees tapped on panel D. It is applied at 5% a.i. concentration with a brush below the tapping cut to a width of 5 cm after light scraping of the outer bark. The first application may be done after a drought period preferably after a few pre-monsoon showers and subsequent applications may be done in September and November. However, continuous application of Ethrel is not recommended for periods of more than 3 years at a

stretch.

During the onset of monsoon the rubber trees in the estates shows abnormal leaf fall. Why and how to control that?

This is mainly due to abnormal leaf disease. This can be controlled by

i. Prophylactic spraying of the foliage prior to the onset of South-West monsoon with, Bordeaux mixture 1% at 4000 - 5000 lit/ha using high volume sprayers.

ii. Oil based Copper oxychloride dispersed in diluent spray oil employing either low volume air blast sprayers (Micron 420 or Minimicron 77 or Shaw Duster Sprayer) from the ground or through aerial application.

iii. For micron spraying on the tree spread, foliage intensity, planting material used and age of plants, two rounds of spray using about 17 to 22 lit of fungicide oil mixture per ha per round (1:6 proportion) with gap of 10 to 15 days or a single round of spray with about 30 - 37 lit of fungicide oil mixture per ha (1:5 proportion) may be necessary.

How long can I economically tapp / extract the rubber?

Up to 12 -14 years of planting, after that trees are removed and can be used as timber.

Can I use the cashew seedlings for commercial planting?

No. Graft materials are used for commercial planting.

What kind of intercrops can I select for cashew orchards?

Ground nut or pulses or minor millets can be grown.

Many cashew plantations are more than 15 years old and the yield of cashew nut is very low. Is there any alternative method to boost up the yield in cashew?

Top working is the ideal method to rejuvenate the senile cashew plantations. In this the main trunk is headed / cut back to the length of 1 m height from the ground level. The new shoots emerging from the shoots are used for epicotyl grafting. The scion materials collected from good yielding plants are grafted by means of epicotyl grafting method.

The newly grafted materials develop canopy within 1 – 2 years of planting and starts yielding from 3rd onwards. This method can also be practiced for poor yielding plants.

I am having poor source of water. Whether it is possible to grow arecanut?

No. it is sensitive to moisture deficit and should be grown where adequate water facilities are available

What are the selection criteria for arecanut seedlings?

Arecanut seeds should be collected from pre-marked, potent mother plant with outstanding performance are selected for propagation. Seedlings of 1 – 2 years old, dwarf and compact seedlings with more number of leaves should be selected for planting.

From my arecanut plantations, a lot of leaf sheaths are dumped as waste materials. As a scientist suggest some of the ways for economical use of such leafy wastes.

i. The leaf sheaths can be employed in the preparation of food plates or cups and can be sold in the market.

ii. Another part is that waste leaf materials are chopped into pieces and used for compost preparations employing earth worms. This adds as a additional support or reduce the cost of organic manures requirement of plantation and the excess can be sold in the market.

Suggest some ideal locations for growing cocoa. Cocoa can be grown as intercrop in coconut and areca nut plantations. I am having farm holding near to seashore. Whether it is possible to grow betel vine?

No. It cannot / does not tolerate saline and alkaline condition. Hence planting of betel vine is not recommended for sea shore areas.

What kind of support materials can be used for betel vine cultivation?

Before the establishment of vines the side branches of Agathi trees upto a height of 2 m are removed for early creeping of the vines.

Most of my coconut plantations sheds more number of buttons and produce smaller grade nuts. Why and how it can be corrected?

This is mainly due to micronutrient deficiency and can be corrected by root feeding of coconut tonic.

One of my coconut trees shows triangular cut leaves. Why it happens/ occurs like that? This is mainly due to Rhinoceros beetle infestation. This can be controlled by applying a hand full of sand to the growing tip. Keep coconut toddy mixed with Methyl demeton or Monocrotophos 2 ml/lit during the night time to trap the adult beetles. Manure pits near to the coconut plantations must be avoided. If it is so, mix or frequently turn the manures to collect the grubs of Rhinoceros beetles and destroy them to control the insect population.

Suggest some coconut varieties suited for rainfed conditions.

VPM 3 and ALR (CN) 1 are suited for rainfed conditions.

Is there any alternative ways to conserve the moisture in coconut plantations?

Mulching the coconut trees with coconut husks/ coir pith and burial of coconut husk or coir pith near the tree basins retains more soil moisture.

I want to practice multitier cropping in coconut plantations. Suggest me some useful and economical crops for that.

Coconut + banana + sirukizhangu + bhendi is suitable system for the eastern region. Crops like banana, pepper, cocoa, nutmeg, vanilla can be tried under multiple cropping system in suitable areas in the western region. In all the systems, apply recommended quantity of water and manures and fertilizers to the intercrops separately.

What are the useful and economical intercrops suited for planting in coconut plantations. (i) Annuals: Groundnut, bhendi, turmeric, tapioca, sweet potato, sirukizhangu, elephant foot yam, ginger, pineapple.

(ii) Biennials: Banana. Varieties Poovan and Monthan are suitable.

(iii) Perennials: Cocoa*, pepper* (Panniyur1 or Panniyur2 or Panniyur5 or Karimunda), nutmeg* and vanilla*

*Suitable areas in Pollachi tract of western region and Kanyakumari district. For vanilla, use disease free planting material and maintain high vigilance to maintain a disease free crop.</p>

<li style="font-weight:bold">Few of my coconut trees shows webbed appearance in the under surface of leaf and shows patches of degreening after a few days. What is the reason and how to control that?<p align="justify">This is mainly due to the infestation of Black headed caterpillar and can be controlled by adopting the following control measures.
The incidence of the pest is noticed from the month of November to May and from August to November after rainfall. The coconut trees of all ages are attacked.Release the larval (Bethylid, Braconid and Ichneumonid) and pupal (Eulophid) on (chalcid) parasitoids and predators periodically from January, to check the build up of the pest during summer.Among the larval parasitoids, the bethylid Goniozus nephantidis is the most effective in controlling the pest. The optimum level of release is 1:8 of host-parasitoid ratio. The parasitoid should be released @3000/ha under the coconut trees when the pest is in the 2nd or 3rd instar larval stage. Parasitoid release trap may be used to release the parasitoid at the site of feeding. Parasitoids should not be released in the crown region since they will be killed by predators like spiders and reduviid bugs.Remove and burn all affected leaves/leaflets.Spray malathion 50 EC 0.05% (1ml/lit) to cover the undersurface of the leaves thoroughly in case of severe epidemic outbreak of the pest in young palms.Root feeding for the control of coconut Black headed caterpillar: Select a fresh and live root, cut sharply at an angle and insert the root in the insecticidal solution containing monocrotophos 36 WSC 10 ml + water 10 ml in a 7 x 10 cm polythene bag. Secure the bag tightly to the root with a cotton thread. Twenty four hours later, check whether there is absorption. If there is no absorption select another root. These methods should not be resorted to as a routine practice and it is suggested only for cases of severe epidemic outbreak of the pest and when the survival of the tree is threatened.</p>

<li style="font-weight:bold">I can notice gummy exudation on the main trunk of coconut. Some where in the middle I can find 1-2 holes with some sound. What is the reason and how to control that?<p align="justify">This is mainly due to red palm weevil incidence. This can be controlled by adopting the following measures:
Remove and burn all wilting or damaged palms in coconut gardens to prevent further perpetuation of the pest.Avoid injuries on stems of palms as the wounds may serve as oviposition sites for the weevil. Fill all holes in the stem with cement.Avoid the cutting of green leaves. If needed, they should be cut about 120 cm away from the stem.Fill the crown and the axils of top most three leaves with a mixture of fine sand and neem seed powder or neem seed kernel powder (2:1) or lindane 1.3 D (1:1 by volume) once in three months to prevent the attack of rhinoceros beetle damage in which the red palm weevil lays eggs.Plug all holes and inject pyrocone E or carbaryl 1% or 10 ml of

monocrotophos into the stem by drilling a hole above the points of attack.

- Setting up of attractant traps (mud pots) containing sugarcane molasses 2½ kg or toddy 2½ litres + acetic acid 5 ml + yeast 5 g + longitudinally split tender coconut stem/logs of green petiole of leaves of 30 numbers in one acre to trap adult red palm weevils in large numbers.

- Install pheromone trap @ 1/2 ha
- Root feeding: Select a fresh and live root, cut sharply at an angle and insert the root in the insecticidal solution containing monocrotophos 36 WSC 10 ml + water 10 ml in a 7 x 10 cm polythene bag. Secure the bag tightly to the root with a cotton thread. Twenty four hours later, check whether there is absorption. If there is no absorption select another root. These methods should not be resorted to as a routine practice and it is suggested only for cases of severe epidemic outbreak of the pest and when the survival of the tree is threatened.

There are some warts or fissures noticed on my harvested coconuts. These coconuts are smaller in size and fetches low market price. Why?

This is mainly due to eriophyid mite infestation. The following measures can be adopted. Package of recommendations for the management of the coconut eriophyid mite

Manurial and fertilizer recommendation (Soil application/tree/year)
Grow sunnhemp as intercrop twice a year (Seed rate 30 kg/ha)
Spot application of ecofriendly Botanicals
Method of application

- The botanicals should be applied in the sequence indicated above at 45 days interval using a one litre hand sprayer. Rocker or Pedal sprayer can be used for spraying small trees.
- The spray should be applied at the crown region by a climber covering only the top six bunches during non rainy season.
- The bunches must be covered well by the spray fluid and approximately one litre of spray fluid may be required per tree.

Precautions and safety measures

- Spraying should be avoided during windy season to prevent contamination.
- At the time of spraying, protective mask and clothing should be used.
- Wash face and hands cleanly with soap after spraying.

I want to establish a coconut nursery? From what type of mother palms or what are characters must be considered while selecting the mother palms?

Select seed gardens, which contain large proportion of high yielding trees with uniformity in yielding ability. Trees growing closer to households, cattle shed, compost pits and other favorable conditions should be avoided.

- High yielding mother palms giving not less than 100 nuts/palm/annum should be chosen for collecting seednuts. Alternate bearers should be avoided. The age of the palm chosen be middle age i.e., from 25 to 40 years. Even trees with 15 years age can be selected, if it is high yielding and has stabilized yield.
- The mother palm should have straight trunk, spherical or semi spherical crown, high rate of leaf and spathe production, short and stout petiole, more number of female flowers regular bearing habit, non – buckling bunches, high setting parentage, medium in nut size, high copra outturn and free from pest and diseases. A good regular bearing mother palm produces on an average

one leaf and an inflorescence in its axil every month. So, there will be twelve bunches of varying stages of maturity at any one time. Avoid trees producing habitually barren nuts.

Harvest seednuts during the months of February - August to get maximum germination and good quality seedlings. Harvest the bunches intended for seednut by lowering them to the ground using a rope to avoid injury to seednuts

The seednuts should be round in shape and when tapped by finger should produce metallic sound. Fully ripe nuts develop twelve months after fertilisation.

To get more quality seedlings, the seednuts of tall and hybrid are to be air cured for one month followed by sand curing for two months. For dwarf varieties, the air curing should be lesser than one month followed by sand curing for two months.

What are the basic criteria for the selection of coconut

Good quality seedlings should possess at least 6 leaves and the girth of collar region should be 10 cm.

My land holdings are located near coastal regions of Cuddalore. Whether I can plant oil palm on commercial basis?

No. Gravelly and sandy soils, particularly the coastal sands are not ideal for oil palm cultivation.

During oil palm flowering I can find more male inflorescence than the female. Why it is occurring like that?

Water deficiency adversely affects flower initiation, sex differentiation and these results in lower sex ratio due to production of more male inflorescence.

I have planted oil palm two years ago. Whether I can allow flowering and fruit set this year or I should postponed that one. If so, what is the benefit?

The bunches produced initially will be very small and have low oil content. Removal of such inflorescences is called ablation or castration. Removal of all inflorescences during the initial three years is found to improve vegetative growth of young palms so that regular harvesting can commence after three and half years of planting. Ablation is done at monthly interval by pulling out the young inflorescence using gloves or with the help of devices such as narrow bladed chisels. Ablation improves drought resistance capacity of young palms by improving shoot and root growth especially in low production areas where dry condition exists.

How to assess the ripening of oil palm?

Ripeness of the fruit is determined by the degree of detachment of the fruit from bunches, change in colour and change in texture of the fruit. Ripening of fruits start from top downwards, nigrescens fruits turning reddish orange and the virescens (green) to reddish brown. Fruits also get detached from tip downward in 11 - 20 days time. Ripeness is faster in young palms than in older palms for the bunches of equal weight. The criteria used in determining the degree of ripeness based on the fruit detachment are as follows:

a) fallen fruits: 10 detached or easily removable fruits for young palms and 5 for adult palms.

b)number of fruits detached after the bunch is cut; 5 or more fruits/kg of bunch weight.

c)quantity of detachment per bunch; fruit detachment on 25% of visible surface of bunch.
These criteria could be applied with flexibility.</p></div>

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```
else { panel.style.display = "block";}}});
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function closeNav() {
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13. propagation.php

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</i>&nbsp; Introduction</button><div class="panel"><ul><li>Propagation is a natural phenomenon in all plants.</li><li>It is the process of multiplication of a plant by sexual or asexual means to ensure the continuation of its progeny.</li>
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<li>This is achieved artificially on the field by adopting techniques suitable to the specific plant and its growth cycle.</li></ul><p style="font-weight:bold">Different methods of
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asexual propagation</p><ul><li>Asexual methods of propagation are carried out usually by cuttings, grafting, budding, layering and planting of modified organs.</li></ul><p style="font-weight:bold;position:relative;left:370px">fig. Propagation</p>
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</div><button class="accordion" style="position:relative;top:20px"><i class="fas fa-angle-down">
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</i>&nbsp; Propagation Methods</button>
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Propagation through cutting.</button> <div class="panel"><p style="font-weight:bold;font-size:18px;position:relative;top:10px">

Propagation through cuttings.</p>Propagation through cuttings is an easy and less expensive method of vegetative propagation. A cutting is usually a division of the stem, or root or leaf of a plant. Cutting is extracted from a plant part and planted in the soil. Based on the requirement, the cuttings are extracted from a mother plant of a definite age.The extracted cuttings are trimmed and planted in the soil either horizontally or vertically depending on the need.Among all the type of cuttings, stem cuttings are most widely used

<hr style="border-width:2px;border-color:#53302D"></hr><p style="font-weight:bold;font-size:18px">A. Hardwood cuttings.</p>Cuttings taken from the branches of the current year's growth of a plant are usually considered to be Hardwood cuttings.

These cuttings usually measure 25-30 centimetres with 4-5 nodes.

Cuttings of pencil thickness with uniform internodal growth are preferred.

Based on the requirement, the cuttings are extracted from a mother plant of a definite age.Some of the medicinal plants that are usually propagated by hardwood stem cuttings are, Hibiscus rosa-sinensis (Mandara), Pomegranate (Dalimba), Lawsonia inermis (Goranta or Krommi).<hr style="border-width:2px;border-color:#53302D"></hr><p style="font-weight:bold;font-size:18px">B. Semi-Hardwood cuttings.</p>These are cuttings prepared from tender shoots and branches of the current year's growth that are not too hard but show brown blotches on the green stem.They usually measure about 20 centimetres with a pair of leaves retained at the tip.Some of the medicinal plants that are usually propagated by Semi hardwood stem cuttings are, Adhatoda vasica (Adda sarap), Tinospora cordifolia (Jivantika, Tippatiga), Eclipta alba (Gunta-galijeru, Gunta-kalagara), Gymnema sylvestre (Poda patri, Putla podra), and Piper spp.<hr style="border-width:2px;border-color:#53302D"></hr><p style="font-weight:bold;font-size:18px">C. Softwood-stem cuttings.</p> Those cuttings prepared from the soft tender shoots that are still green are considered softwood cuttings. These cuttings usually measure 8-10 cms with a growing tip and the leaves are usually retained at the tip. <hr style="border-width:2px;border-color:#53302D"></hr><p style="font-weight:bold;font-size:18px">Propagation through cuttings.</p>Some of the medicinal plants that are usually propagated by semi hardwood stem cuttings are, Bacopa monnieri (Brahmi), Gymnema sylvestre (Poda patri, Putla podra).</div><button class="accordion" style="font-size:18px;position:relative;top:20px"><i class="fas fa-angle-down"></i> Propagation through layering.</button><div class="panel"><p style="font-weight:bold;position:relative;top:10px">Propagation through layering.</p>In this technique a vegetative branch is made to root while it is still

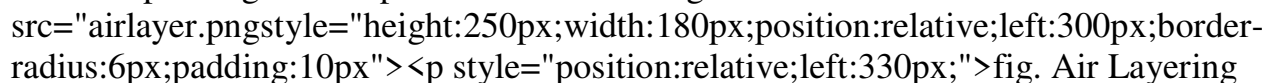
attached to the mother plant.

- The rooted branch will be later excised and planted as a new seedling.
- Different layering techniques such as air layering techniques such as air layering, mound layering and serpentine layering are commonly practiced.

Air layering.

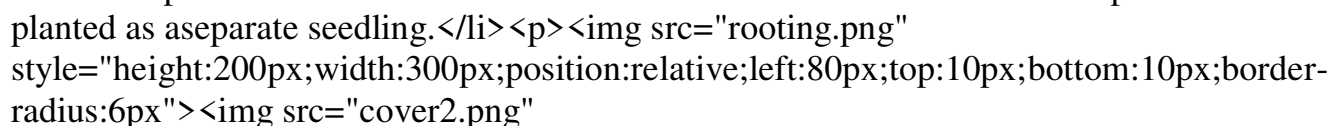
Air layering is carried out as follows:

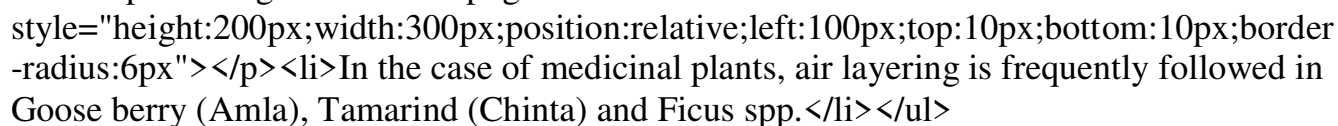
- Pencil size shoot of the current years growth is to be selected.
- On the selected shoot, preferably on the basal portion, a ring of bark is removed and the exposed wood is scraped.
- The exposed portion is further wrapped with moist inert rooting medium like Sphagnum moss, moist coir etc.
- And covered with a polythene sheet making it air tight.
- This branch is left undisturbed on the mother plant for about 2-8 weeks depending on the species.

The diagram shows a branch of a plant with a section of the bark removed and wrapped in a moist medium, illustrating the air layering technique.

During the course several adventitious roots emerge from the base of the exposed bark, which is covered.

- The rooted branch will be later cut below the covered portion and planted as a separate seedling.

The diagram shows a branch of a plant with a section of the bark removed and wrapped in a moist medium, illustrating the rooting technique.

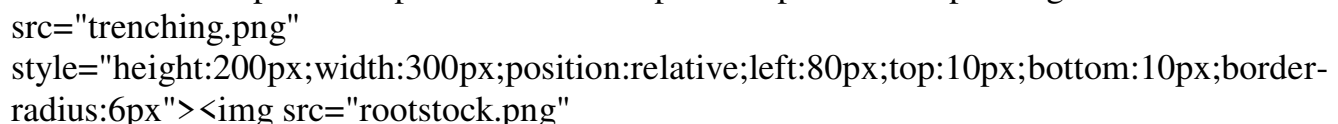
The diagram shows a branch of a plant with a section of the bark removed and wrapped in a moist medium, illustrating the cover2 technique.

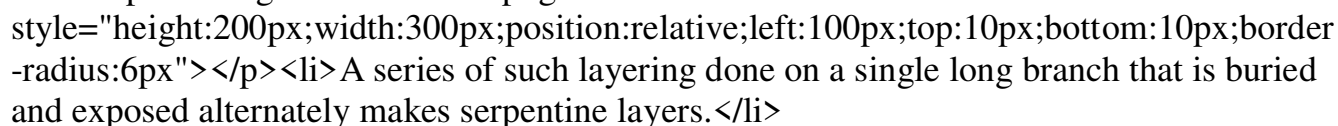
In the case of medicinal plants, air layering is frequently followed in Goose berry (Amla), Tamarind (Chinta) and Ficus spp.

Mound layering

It is another technique of layering and carried out as follows:

- A long and supple branch is selected.
- Ring of bark is removed at the base and buried in the soil.
- In the due course, roots emerge from the buried portion.
- After sufficient emergence of the roots the branch will be separated from the mother plant and planted as an independent plant.

The diagram shows a branch of a plant with a section of the bark removed and buried in the soil, illustrating the trenching technique.

The diagram shows a branch of a plant with a section of the bark removed and buried in the soil, illustrating the rootstock technique.

A series of such layering done on a single long branch that is buried and exposed alternately makes serpentine layers.

- Serpentine layering can be tried for species, which have drooping long and supple branches. In the case of medicinal plants, serpentine layering is seen in very few species such as Tinospora cordifolia (Jivantika, Tippiatiga), Celastrus paniculatus (Gundamedha, Pallerutiva).

Propagation through Grafting.

Propagation through grafting.

for a specified time period.

- After the graft union is ensured, the remaining portion of the stock plant above the graft union is removed and the scion is encouraged to grow. After this, the graft is ready for planting.



Pepper Grafting

Different techniques of grafting are seen in use for propagating different plants. The commonly followed techniques are the following:

Approach grafting

- The method involves causing the graft union between the two selected branches of Stock and Scion while the branches are still growing on the parent plants.

Wedge grafting

- The method involves causing the graft union by inserting the scion, which is in the form of a wedge, on to an incision on the stock plant. The scion is usually a branch excised from the mother plant.








Epicotyl grafting

- Grafting is done on the tender shoot of about 5-7 days old of a germinated seed with its epicotyl seeds still intact.

Softwood grafting

- Grafting is done on the soft shoot of the stock plant which is a seedling of about 6 months.




However in the case of medicinal plants grafting is seen only with selected etc.





Cleft Grafting Tongue Grafting

fa-angle-down

Propagation through Budding.</button><div class="panel"><p style="font-weight:bold;position:relative;top:10px">Propagation through budding</p><p>It is yet another propagation technique where a vegetative bud is excised from a mother plant and used as the scion material. The technique involves.</p>The removal of selected vegetative bud along with a patch of bark from the scion plant and inserting it on to the stock plant.The graft is further tied to keep the bud in place and maintained till the union takes place.After the union is ensured, the portion of the stock above the bud union is removed and the sprout from the scion bud is encouraged to grow further.<hr style="border-width:2px;border-color:#53302D"></hr> <p><p style="position:relative;left:120px;font-size:15.5px">Removal of bud, fixing in rootstock tying with polyethylene Strip and Sucessful graft</p></p><p><p style="position:relative;left:350px;font-size:15.5px">Technique of batch budding</p></p> <hr style="border-width:2px;border-color:#53302D"></hr>Different budding techniques such as Shield budding, Patch budding, Ring budding are seen in use, in which the scion material (in the shape of a shield, a small rectangular patch, a ring respectively) is inserted on to the stock plant.However, in the case of medicinal plants, budding is very rarely practiced.<hr style="border-width:2px;border-color:#53302D"></hr></div><button class="accordion" style="font-size:18px;position:relative;top:20px"><i class="fas fa-angle-down"></i> Propagation through modified organs.</button><div class="panel"><p style="font-weight:bold;position:relative;top:10px">Propagation through modified organs</p><p>Several species of plants ensure their propagation with the help of modified organs that serve as the propagules. Following are some such special organs.</p><button class="accordion" style="font-size:18px;position:relative;top:20px"><i class="fas fa-angle-down"></i> Micropropagtion</button><div class="panel"><p style="font-weight:bold;position:relative;top:10px">Micropropagtion</p><p>Apart from conventional methods of propagation micropropagation has been standardized and it has also been commercialized in few crops. Some research leads in this direction are listed here under.</p>Commercial production of tissue cultured plants in banana, strawberry

and pine-apple successful.

- Production of virus-free planting material and shoot tip grafting in citrus a commercial.
- Cutting is extracted from a plant part and planted in the soil.
- Protocols proposition for mass multiplication of apple, grape and citrus rootstocks available.
- The extracted cuttings are trimmed and planted in the soil either horizontally or vertically depending on the need.



In vitro multiplication of superior potato clones for chip and finger making commercialized.

- Micro-tuber and True Potato Seed techniques also standardized for commercial exploitation.

Production of virus-free planting material and shoot tip grafting in citrus a commercial.Virus elimination through meristem culture has been standardized in potato and taro.High frequency reproducible protocols for rapid propagation of rose, carnation, gerbera, orchids, chrysanthemum and gladiolus developed.In vitro propagation protocols available for different MAPs like Rauvolfia serpentine (Sarpghandha), Dioscorea floribunda, Rosmarinus officinalis (rosemary), Azadirachta indica, Stevia sp., Celastrus paniculatus Willd.Aloe vera, geraniums, neem, Pathouli, Stevia sp. etc. Protocols developed are not commercially successful but need refinement in coconut, areca nut and cashew.Protocols standardized for micro-propagation of superior tea, coffee and rubber clones.

[color:#53302D"></hr> </div></div><button class="accordion" style="position:relative;top:20px"><i class="fas fa-angle-down"></i> Propagation techniques crop wise</button>](#)

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<div class="panel"><button class="accordion" style="position:relative;top:20px"><i
class="fas fa-angle-down"></i>&nbsp; Fruits</button><div class="panel"><button
class="accordion" style="position:relative;top:20px"><i class="fas fa-angle-
down"></i>&nbsp; Mango</button><div class="panel"><p style="font
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Propagation

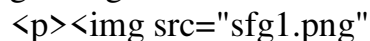
- Mango can be raised from seed or propagated vegetatively.
- Several methods of vegetative propagation have been tried with varying degrees of success.
- Propagation from seed, though easy and cheap, is unable to perpetuate characters of the parent tree because most commercial varieties in India are cross-pollinated and monoembryonic.
- Plants also take more time to bear fruit. However, it is essential to raise seedlings to be used as rootstocks.

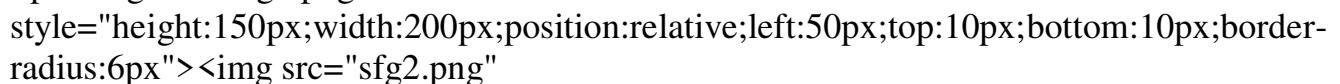
Methods of propagation * Softwood grafting*

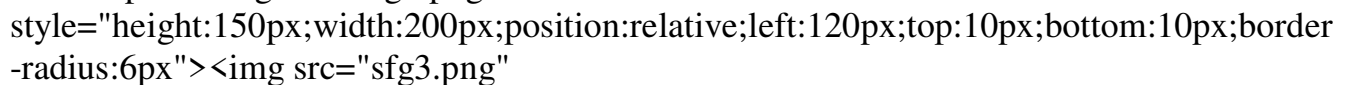
Softwood Grafting

- This method of grafting is done when the rootstock is overgrown and thus not suitable for stone grafting.
- Normally in this method, seedlings of 8-10 months old are selected.
- The grafting is done on newly emerged flush. The scion wood to be used is defoliated 10 days prior to the grafting and has same thickness as that of terminal shoot.
- The method

of grafting is similar to stone grafting. July and August are the best months for soft-wood grafting.





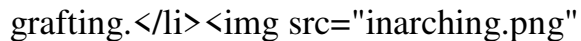


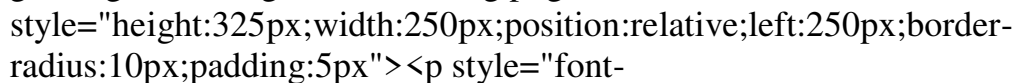
Inarching

Inarching

Inarching

The method of inarching or approach grafting is quite cumbersome and time consuming, but it is still the leading method for commercial propagation of mango plants. The method consists of uniting the selected shoot (scion) of a desired parent tree (mother plant) with the potted or transplanted seedling (rootstock) by approach grafting. For this purpose, about one-year-old seedlings are most suitable when they attain a height of about 30-45 cm and thickness ranging from 0.75 to 1.5 cm. These seedlings are either grown in pots or under the mother plant from which the grafts are to be prepared. Generally, one-year-old twigs of the scion tree about 60 cm in length and nearly of the same thickness as that of the stock is chosen for grafting.





Inarching of mango Young and non-bearing trees should not be selected as mother plants. A thin slice of bark and wood, about 5 cm in length, 7.5 mm width and 2 mm deep, is removed by means of a sharp grafting knife from the stem of the stock as well as from the scion branch. The cuts thus made should be absolutely flat, clean, boat shaped, even and smooth. The cut surfaces of both, i.e., stock and scion are made to coincide facing each other so that there remains no hollow space between the two. Polythene/alkathene strips of about 1.5 cm in width are tied around the union. After about one month of operation, the scion below the graft union and stock above the graft union should be given light "V" shape cuts at weekly interval in such a way that the grafts can finally be detached while giving the fourth cut. In the last stage, the top of the stock above graft union should also be removed completely. Inarching should be done during the active growth period.

The end of the monsoon in heavy rainfall areas and early monsoons in the light rainfall areas is the best period for inarching.

Veeneer

Grafting

Veeneer

This method of propagation possesses promise for mass scale commercial propagation. The method is simple and can be adopted with success. The rootstocks as mentioned for inarching are suitable for this method also. For conducting this grafting operation, a downward and inward 30-40 mm long cut is made in the smooth area of the stock at a height of about 20 cm. At the base of cut, a small shorter cut is given to intersect the first so as to remove the piece of wood and bark.

The scion stick is given a long slanting cut on one side and a small short cut on the other so as to match the cuts of the stock.

The scion is inserted in the stock so that the cambium layers comes on the longer side. The graft union is then tied with polythene strip as recommended for inarching. After the scion remains green for more than 10 days, the rootstock should be clipped in stages. The scion wood to be used for veneer grafting requires proper preparation. The desired shoots should be defoliated at least one week prior to grafting so that the dormant buds in the axil of leaves become swollen.

Propagation

In India citrus trees are propagated both by seeds and vegetative means. Seed propagation is still practiced in the case of acid limes and to produce rootstocks for budding purposes. Shield or T budding is the most commonly used method of vegetative propagation.

Budding is generally done either in spring or in September.

Shield or T Budding

In this method of propagation, a bud from desired variety (scion) is transferred on the rootstock with an objective of utilising the vigorous root system of the rootstock and combining the best characters of both. A plump, but not too elongated bud is selected from the middle section of the scion shoot. It is removed by making an incision around the bud with the help of sharp budding knife. On the selected rootstock T-shaped incision is made just enough to accommodate the bud. The bud is inserted in the incision and tied with a strip of plastic film in such a way that the tip of the eye remains open.

Budding should be preferably done as low as possible on the rootstock.

It takes three to four weeks for the bud to unite when the new shoot from the grafted bud is about 10 cm long the top portion of the stalk above the union is cut off and the plastic film is removed. For budding, proper selection of the rootstock is very important as it contributes to the vigour, productivity and quality of fruits.

It also influences resistance and tolerance to certain diseases and pests and plays a major role on agro climatic adaptation.<hr style="border-width:2px;border-color:#53302D"></hr></div><button class="accordion"

style="position:relative;top:20px"><i class="fas fa-angle-down"></i> Grapes</button><div class="panel"><p style="font-weight:bold">Propagation</p>

<p style="font-weight:bold">Hardwood Cutting</p>For obtaining hardwood

cuttings, 3-4 year old disease free vigorously growing mature vines, which has produced a good crop in the previous year should be selected after October pruning.Cuttings from very young and very old vines or those subjected to heavy fruiting during the previous year should be avoided.Medium-size canes having internodal length of 8-10 cm are desirable. 30-45 cm long cuttings of pencil size thickness with atleast 3-4 nodes are cut from the middle portion of the selected canes.A cut should be made straight across 1cm below the node at the lower end of the cuttings, while slanted cut at the top is taken 2-3 cm above the bud.The cuttings are then immediately planted in bed or in polythene bags in the nursery.In case of delay in planting, the cuttings are stored by burying in moist sand or sawdust at 5 -7.50 C.In nursery, the cuttings are planted in well-prepared flat beds of 1.2m width of convenient length.A mixture of Leaf mould, FYM, Sand and Super phosphate is thoroughly mixed in the soil before forming the bed. Cuttings are planted 20 cm apart in lines.While planting the cuttings at least two nodes should be inside the soil with one bud above the soil.Care should be taken to maintain the polarity while planting the cuttings, since grape cuttings planted upside down do not grow.Soil is pushed back into the furrows and pressed firmly around each cutting.Cuttings can also be planted in polythene bags. Polybags (25x15 cm and 150-200 gauge) are filled with a mixture of soil, sand and FYM in equal proportion along with Superphosphate.One or two cuttings may be planted in each bag. Preventive sprays to control common diseases are given during the growing period.<hr style="border-width:2px;border-color:#53302D"></hr><hr style="border-width:2px;border-color:#53302D"></hr><p style="font-weight:bold">Hardwood Cutting</p>Chip budding is the best method for propagating vines on rootstocks.In this method a wedge-shaped piece containing the bud (chip) along with a portion of wood is removed from the desired variety.The scion buds should be plump and taken from well-mature healthy canes, equal in maturity level and thickness to that of the rootstock.A notch, sufficient to accommodate the chip, is made on the rootstock 10-15cm above the ground.The chip is placed in this notch and wrapped with a polythene strip exposing the bud. Normally two budding are done on every mature stem 15 cm apart.When these buds sprout and grows to about 15 cm, the rootstock portion above it is cut off.The sprouts on the rootstock below the bud joint are removed regularly.<hr style="border-width:2px;border-color:#53302D"></hr></div><button class="accordion"

<i class="fas fa-angle-down"></i> Pomegranate</button><div class="panel"><p style="font-weight: bold">Propagation</p><p style="font-weight: bold">Air layering</p>Air layering is carried out in the month of May/June.In this method a 1-2 year old, healthy, vigorous, mature shoot of 45-60 cm in length and pencil thickness is selected.A circular strip of bark about 3 cm wide just below a bud is completely removed from the selected shoot.Rooting hormones like IBA & NAA 50mg each in Lanoline paste are applied over this portion.Moist sphagnum moss is packed around this portion and tied with polyethylene sheet to prevent the loss of moisture.Application of such hormones promotes early rooting.Light brown roots are visible through the polythene wrap in the month of July-August.The rooted shoot is slowly detached by giving 2-3 successive cuts over a period of week before finally detaching from the parent plant.The polythene sheet is removed before planting them in pots.They are planted in pots and kept in nursery under shade.Top of the shoot is cut back to maintain a proper ratio of leaves:roots.The grafts can be transplanted in the field in the month of September/October.<hr style="border-width: 2px; border-color: #53302D"></div></div><button class="accordion" style="position: relative; top: 20px"><i class="fas fa-angle-down"></i> Spices and plantation crops</button><div class="panel"><button class="accordion" style="position: relative; top: 20px"><i class="fas fa-angle-down"></i> Turmeric</button><div class="panel"><p style="font-weight: bold">Turmeric: Curcuma longa Val</p><p>Propagation: Mother rhizome & finger rhizomes</p><p style="font-weight: bold">Nutmeg: Myristica fragrans Houtt.</p><p style="font-weight: bold">Propagation: Seeds /grafts/ budded plants</p><p style="font-weight: bold">Seed Propagation</p>Seeds are collected from regular bearing and high yielding trees (more than 10,000 fruits per tree per year) and having 30 g weight/fruit, 1 g wet mace /fruit and 10 g wet weight of nuts / fruit.Seeds are harvested during June – July. Sown immediately after extraction in beds at a spacing of 30 cm and 2.5 – 5.0 cm deep.Germination commences from 40 days and extends up to 90 days after sowing. Transplanted to poly bags (35 x 15 cm) one year old seedlings are transplanted to bigger poly bags (35 x 20 cm).Seedlings transplanted to main field from 18-24 months.<p style="font-weight: bold">Vegetative propagation:</p>Grafting (approach method) or budding (Patch method) is recommended to perpetuate high yielding nutmeg types.Best season is from October to January. Use only orthotropic shoots as scion materials.<p style="font-weight: bold">Propagation from suckers:</p>Suckers from high yielding plants are planted in clonal gardens.Spacing 1.8 m x 0.6 m (6800 plants/ha of clonal nursery).Shade and Irrigation is provided, 32 – 42 suckers obtained from each planting unit in 12 months.<hr style="border-width: 2px; border-color: #53302D"></div><button

Cinnamon

Spices and Plantation Crops

Cardamom: Elettaria cardamomum (Maton.)

Propagation from seeds:

- Collect seeds from healthy and high yielding plants. Seed rate – 600g/ha (fresh seeds).
- Treat with commercial grade Sulphuric acid or Hydrochloric acid for 20 minutes.
- Wash with water. Prepare the beds with equal quantity of well rotten cattle manure, wood ash and jungle soil.
- Sow the seeds in beds and cover with a thin layer of fine sand. Mulching and shading may be provided to seed beds.
- The beds should be kept moist but not too wet.
- Germination starts usually a month after sowing and continues upto three months.
- One year old seedlings are transplanted to secondary nursery.

Secondary nursery:

- Prepare the beds. As that of primary nursery, shade is provided by erecting overhead pandal
- Seedlings planted at a distance of 20 x 20 cm. 18-22 months old seedlings are used for transplanting. Polybags of 20 x 20 cm size can be used.

Propagation from suckers:

- Suckers from high yielding plants are planted in clonal gardens.
- Spacing 1.8 m x 0.6 m (6800 plants/ha of clonal nursery).
- Shade and Irrigation is provided, 32 – 42 suckers obtained from each planting unit in 12 months.

Allspice

Allspice (Pimenta dioica Lindl.)

Propagation

Seeds

- Seeds are collected from high yielding and regular bearing trees.
- Seeds are extracted after soaking the fruits overnight in water and rubbing them in a sieve and washing with clean water.
- The seeds are ready for sowing after drying them in shade. Nursery beds of 1.2 m width are prepared with light soil incorporated with organic matter or a mixture of sand and coir dust or coir dust alone.
- After sowing the beds are mulched to hasten germination.
- Dried leaves, paper and damp sacks are used as mulches.
- Germination takes place 15 days after sowing.

vegetative propagation

- Air layering in the month of January.

Cardamom

Spices and Plantation Crops

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Vanilla

Vanilla: *Vanilla planifolia*

Propagation: Stem cuttings of 60 - 120 cm

Coffee: *Coffea arabica* L.; *Coffea canephora* Pierre ex Frechna

Propagation: by seeds

- Preparation of seeds: Healthy and well-developed fully ripe berries are harvested from specially identified plants for use as seed bearers.
- After discarding the floats, the sound fruits are depulped, sieved and mixed with sieved wood ash and dried in shade.
- The seed is then graded to remove all cut, triangular and elephant beans.
- Prior to planting, the are treated with Agrosan or any Organomercurial compound to prevent fungal infection.

Cashew: *Anacardium occidentale* L.

Propagation: Soft wood grafting, air layer and epicotyl grafting.

Rubber: *Hevea brasiliensis* Muell-Arg.

Propagation: Propagated by green budding and brown budding.

Palmyrah: *Borassus flabellifer*.

Propagation: Seed. Germination of 63.25 % are achieved 6 weeks after sowing.

Medicinal plants

Medicinal plants

Glory lily (*Gloriosa superba*)

Planting material

- Propagation through tubers. Select tubers weighing 40-60g. Sprouting is observed during July to August

Coleus (*Coleus forskohlii*)

Propagation : Terminal three to four nodal cuttings measuring 10 cm length is used.

Geranium: *Pelargonium graveolens* (L) Hervitt.

Propagation: Geranium is propagated by stem cuttings.

Cuttings of about 10 cm taken from current season growth with a well formed crown of leaves with 3 - 4 nodes and terminal bud and raised in polythene bags of 10 x 10 cm size.

Thorough field preparation leading to fine tilth condition is essential.

Pits of 30 x 30 cm size are dug and cattle manure at 250 g/pit is applied and rooted cuttings of 2 months age are planted at a spacing of 45 x 45 cm during April - May

Patchouli; *Pogostemon patchouli* Hook.

Propagation: Rooted stem cutting of 15-20 cm are used.

Mint: *Mentha sp*

Propagation and planting: Rooted stem cuttings.

Flower Crops

Rose: *Rosa sp*

Propagation

Cuttings with 2-3 buds are dipped in IBA or IAA @ 500 - 1000 ppm

Malligai (*Gundumalli*): *Jasminum sambac* Ait)

Propagation

Semi hard wood cuttings (15 - 20 cm long)

Mullai: *Jasminum auriculatum* (Vahle.)

Propagation

Semi hard wood cuttings (15 - 20 cm long)

Jathi Malli (*PITCHI*): *Jasminum grandiflorum* L

Propagation

Terminal cuttings (12.5 - 15 cm long).

Crossandra: *Crossandra infundibuliformis* L

Propagation

Tetraploids:

Propagated through seeds. Seed rate is 5kg/ha. 60 day old seedlings are transplanted in the main field.

Triploids:

Propagated through terminal cuttings of 10 - 15 cm length (41,700 cuttings/ha).

Chrysanthemum: *Dendranthema grandiflora* Tzeuleu

Propagation

Commercial propagation is through terminal cuttings (5-7 cm long) or suckers.

Marigold (*African marigold*): *Tagetes erecta* L

Propagation

Propagated through

seeds.

Tuberose: Polianthes tuberosa L

Propagation and Planting

Bulbs are used for commercial propagation

Nerium: Nerium indicum Mill

Propagation and Planting

Hard or semi hard wood cuttings of 60 cm length are used for propagation.

Rooted cuttings are planted during June - July in 30 x 30 x 30 cm pits dug at 2 x 2 m spacing and filled with FYM, red earth and top soil.

Golden Rod: Solidago spp

Propagation

Commercially propagated through division of clumps or suckers.

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 Cut flowers

Cut Flowes

Cut Rose: Rosa sp

Propagation

Cut roses are commercially propagated by T budding on Briar rootstock.

Cut Chrysanthemum: Dendranthema grandiflora)

Propagation

Terminal cuttings and tissue culture plants are used

Terminal cuttings are widely used for commercial cultivation

Cuttings of 5-7 cm length are taken from healthy stock plants and are induced to root by treating with IBA (1000 ppm).

Carnation: Dianthus caryophyllus

Propagation

Division of clumps, keikis, back bulbs and tissue culture plants

Lilium: Lilium sp

Propagation

Liliums are commercially propagated through bulbs.

A six week cold storage period at 2oC to 5oC is needed to break dormancy. Bulbs can be stored at - 20C up to one year

Gladiolus: Gladiolus spp

Propagation

Tetraploids

Commercial propagation is through corms.

Cold storage of corms at 3 to 7C for 3 months or treatment with Ethrel (1000ppm) or GA3 (100ppm) or Thiourea (500 ppm) is adopted for breaking corm dormancy.

Triploids

Propagated through terminal cuttings of 10 - 15 cm length (41,700 cuttings/ha)

Gerbera: Gerbera jamesonii

Propagation

Commercially propagated through division of suckers and tissue culture plants

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style="font-weight:bold">China Aster: Callistephus chinensis</p><p style="font-
weight:bold">Propagation</p><p>Propagated through seeds.</p><hr style="border-
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14. feedback.php

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<a href="vegcrop.php">Vegetable Crops</a>
<a href="fruitcrop.php">Fruit Crops</a>
<a href="plantncrop.php">Plantation Crops</a>
<a href="spicecrop.php">Spice Crops</a>
<a href="medcrop.php">Medicinal Crops</a>
<a href="landscape.php">Landscaping and decor</a>
<a href="valueadd.php">Fertilizers and value addition</a>
</div></div>
<a href="events.php">Events</a>
<a href="FAQ.php">FAQ</a>

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<a href="propagation.php">Propogation</a>
<a href="nurserytech.php">Nursery Techniques</a>
<a href="DandD.php">Deficiencies and disorders</a>
<a href="fertilizer.php">Fertilizer schedule</a>
<a href="protection.php">Plant protection</a>
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at:</p><p>Shivani Awatade<br>Sushmita Paunekar<br>G.S.College of Commerce and
Economics, Nagpur<br>Phone No. +07172258700<br>Email us at:
blossomsatbackyard@gmail.com<br>©Blossoms at Backyard
2020</p></div></div></div></div>
<script>function openNav() {
    document.getElementById("mySidenav").style.width = "250px";}
function closeNav() {
    document.getElementById("mySidenav").style.width = "0";}
var modal = document.getElementById("myModal");var btn =
document.getElementById("myBtn");
var span = document.getElementsByClassName("close")[0];
btn.onclick = function() {
    modal.style.display = "block";}
span.onclick = function() {
    modal.style.display = "none";}
window.onclick = function(event) {
    if (event.target == modal) {
        modal.style.display = "none";}}
</script>
</body>
</html>

```

15. feedbackdata.php

```
<?php
session_start();
$con = mysqli_connect('localhost' , 'root');
if($con){
    header("location:feedback.php");
}
else{
    echo "no connection...";
}
mysqli_select_db($con, 'userdata');
$name = $_POST['name'];
$email = $_POST['email'];
$contact = $_POST['contact'];
$comment = $_POST['comment'];
$q = "select * from feedbackdata where name = '$name' && email = '$email' && contact = '$contact' && comment = '$comment'";
$result = mysqli_query($con,$q);
$num = mysqli_num_rows($result);
if($num == 1){
    echo"data already taken";}
else{
    $qy = "insert into feedbackdata(name, email, contact, comment) values ('$name' , '$email' , '$contact' , '$comment')";
    mysqli_query($con, $qy);
}
?>
```

INPUT SCREENS

Fig 1.1

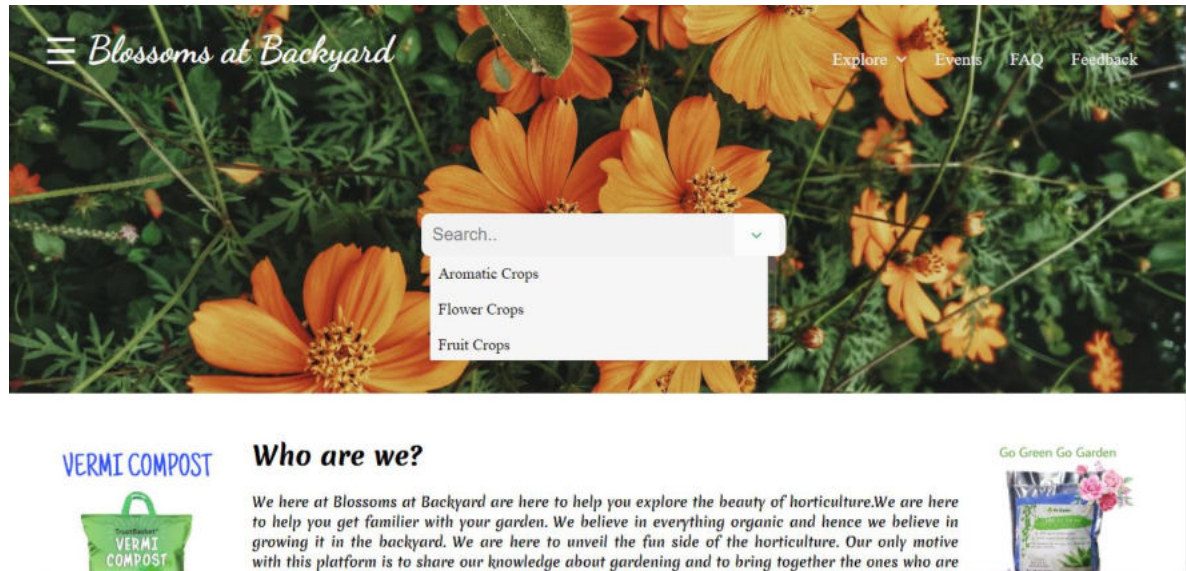
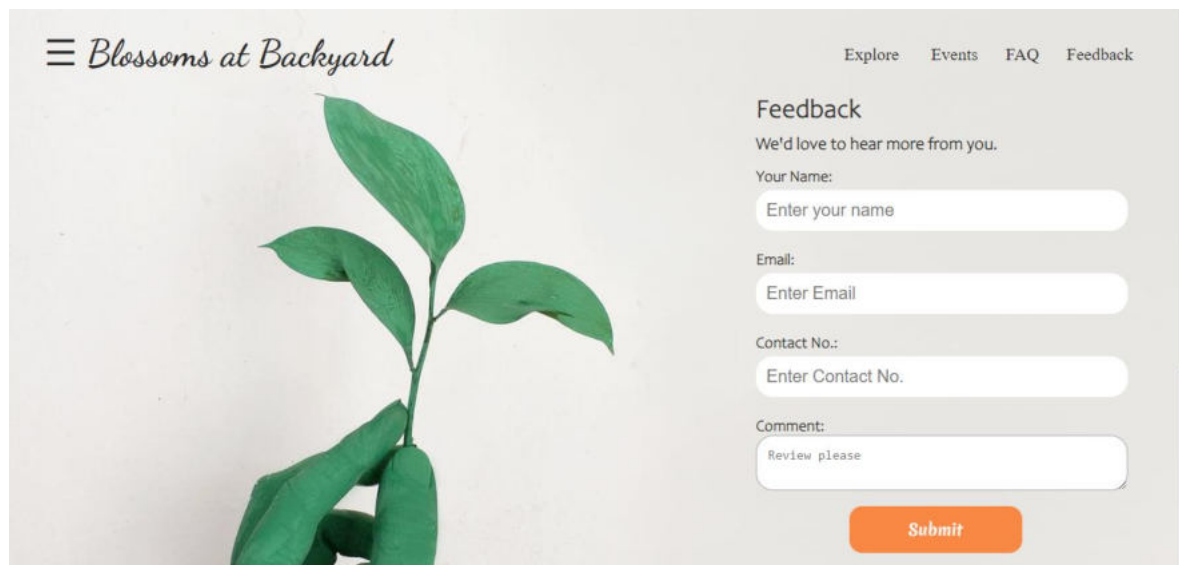


Fig 1.2



OUTPUT SCREENS

Fig 2.1

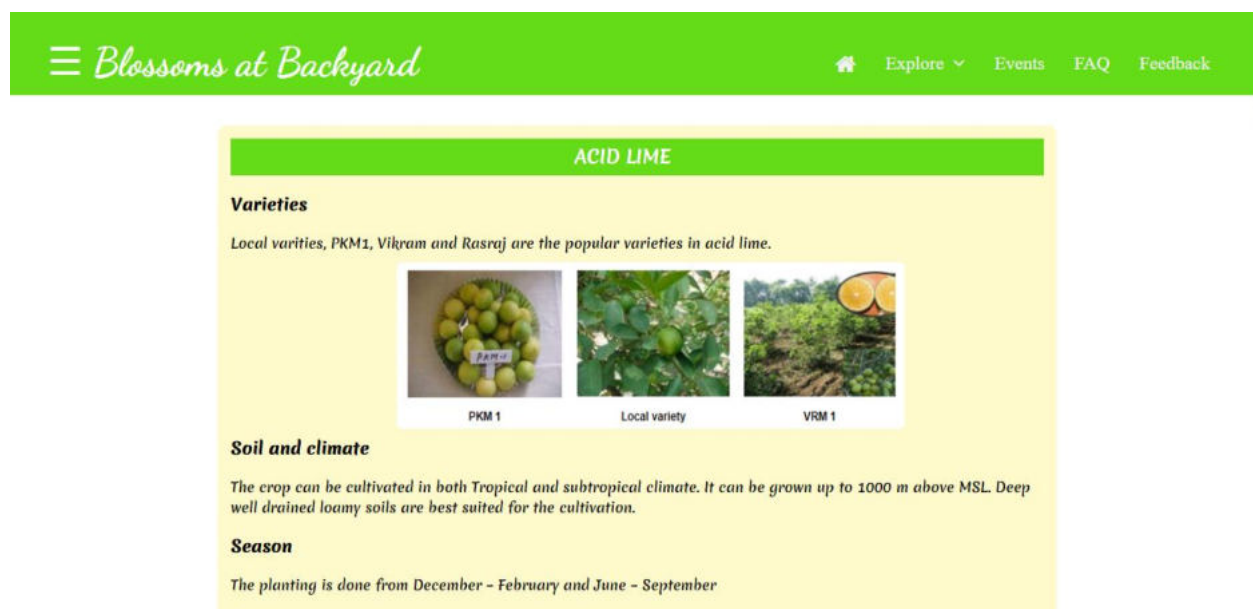


Fig 2.2



Fig 2.3



Fig 2.4

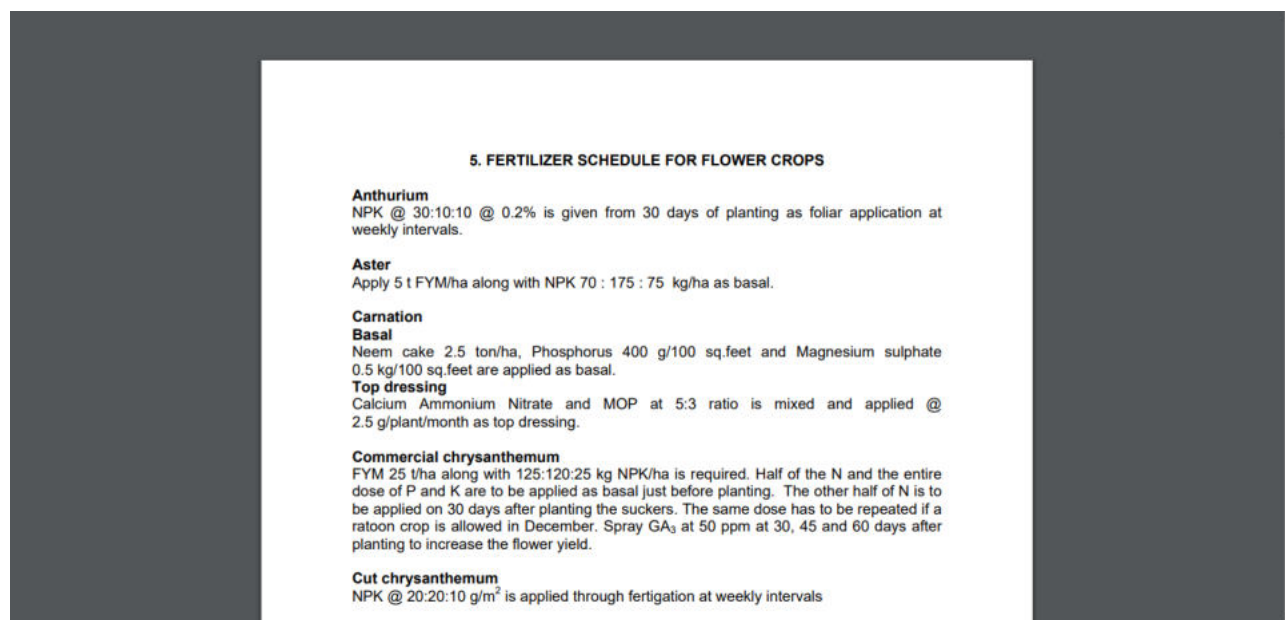


Fig 2.5

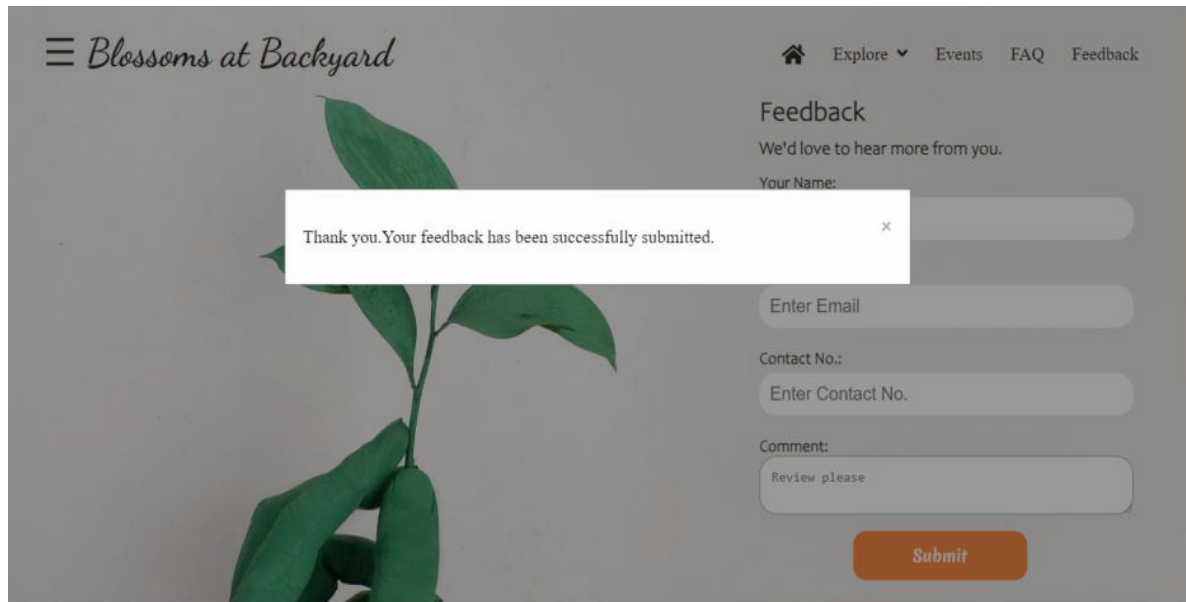
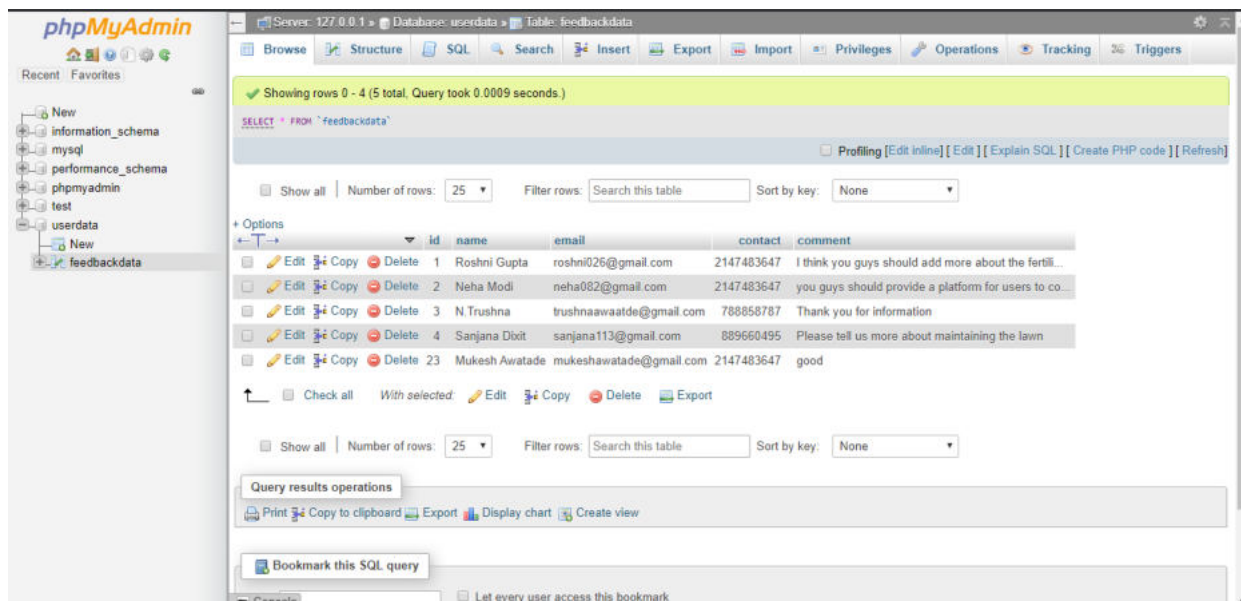


Fig 2.6



TESTING AND VALIDATION CHECKS

VALIDATION CHECKS

Validations are nothing but the security measures taken at the time of execution of any program. It is necessary for the analyst to take validation in his project as it provides more accuracy and systematic flow to the project. Validation not only stops input of false data but also provides information in the form of message to the user to correct his mistake. Hence it plays role of a guide during input of data.

Validation put its control over the data in both characters as well as integer data type. Whenever wrong data or invalid data is stored by the user it fires the message immediately and warns the user to input correct data type. Validations are classified into two types

1. **Validating input transaction:** Validating input data is largely done through software which is the programmer's responsibility but it is important that system analyst must know what common problem might invalidate a transaction. Business committed to quality will include validation checks as apart of their routine software.

Three main problems occur with input transaction.

- ❖ Submitting the wrong data to system.
- ❖ Submission the data by an unauthorized person or
- ❖ Asking the system to perform an unacceptable function.

2. **Validating input data:** It is essential that the input data themselves along with the transactions requested are valid. Several texts can be incorporated into software to ensure this validity. We consider many possible ways to validate input and they are as follows:

1. Test for missing data
2. Test for correct field length
3. Test for class or composition
4. Test for range or reasonableness
5. Test for comparison with stored data.
6. Test for invalid values.

TESTING

Testing plays an important role to ensure the quality of a website. Testing gives chance to upgrade or to improve if any drawbacks are there. Testing is generally done at two levels, testing of individual modules and testing entire system. During system testing, the system is used to ensure that the website does not fall and it will run according to specification and in the way users expect. Testing is done throughout system development at various stages.

Testing Techniques:

1. Program Testing: Under this testing we have to concentrate on the software part. System software should be free from errors. Whether it is syntax error or logical error. We have done software testing and the output of this is satisfied. It fulfills all the conditions which were required for the program testing.

2. Volume Testing: In volume testing the concentration is made on the performance of the system by giving input and there outputs are checked. We have conducted volume testing and checked the output, the output is satisfactory.

3. Stress Testing: The stress testing is conducted to find the performance of the system during main hours. It tries to find out how much workload the system can tolerate. We have done the stress testing of this project and we noticed that, this website can work in any condition. Even during the peak hour it works accurately.

4. Security Testing: The security test deals with the data control and various security measures of the system. It tries to find out what security measures should be adopted incase of damage caused due to power failure etc. We have done security test and noted that result is correct.

5. Documentation Testing: Documentation testing is necessary for the project. It tries to find out whatever document supplied is satisfactory or any further document should be supplied. In this project we have done documentation testing. So all documents, that are supplied with the project are satisfactory.

SECURITY MEASURES TAKEN

SECURITY MEASURES TAKEN

Security is an important term of any project (system) development. Security provides a protection to the computer, database, and project from unauthorized user. Security of computer peripherals, stored data and the information generated is a part of successful conversion.

Recognition of the need for security is a natural outgrowth of the belief that information is a key organizational resource. It is useful to think of security of the project data and information on an imaginary continuum from totally secure to totally open. Security is the responsibility of all those who come into context with the system.

Security has three interrelated aspects i.e. physical, logical and behavioral.

Talking about this website, since it is an informative website without userbase, there isn't much data at risk. For advertisements, we can put the system behind secure layer of SSL to prevent it from hacking.

IMPLEMENTATION, EVALUATION AND MAINTAINANCE

IMPLEMENTATION EVALUATION AND MAINTENANCE

❖ Implementation

In this last phase of system development, we have implemented the information system. This phase involves training users to handle the system some training is done by users; but oversight of training is the responsibility of the system-analyst. In addition the analyst needs to plan for a smooth conversion from the old system to the new one. This process includes converting files from old formats to new ones or building a database, installing equipment and bringing the new system into production. It is primary user training side preparation file conversion when system is linked to terminal or remote sides the telecommunication network is also included after implementation. After installation phase is completed and user staff is adjusted and created by system evaluation and maintenance.

❖ Evaluation

Evaluation is shown as part of this final phase of the System Development Life Cycle mostly for the sake of discussion. Actually, evaluation takes place during every phase. A key criterion that must be satisfied is whether the intended users are indeed using a system thoroughly at the time of development.

We have been evaluating the evolving information system and networks to give feedback for our essential improvement. In recognition the evaluation of information system and network is Important. We have taken many evaluation techniques devised. These techniques include cost-benefit analysis models that attempt to estimate the values of a decision based on the effects of revised information using information theory, simulation, user evaluation that emphasize implementation problem and user evaluation involvement and information system utility approaches that examine the properties of information.

Each type of evaluation serves a different purpose and has its own drawbacks. The revised decision evaluation approach presents difficulty because all variables involved within the design, development and information of the project can not be calculated or qualified.

The user involvement approach to evaluation can be more comprehensive than others if it is expanded and systematically applied.

❖ **Maintenance**

After the system is installed it must be maintained; i.e. the computer programs must be modified and kept up-to-date. Estimates of the time spent by departments on maintenance have ranged from 40-60% of time spent developing projects. Very little time remains for new system development.

Maintenance is performed for two reasons. The first of these is to correct software errors. No matter how thoroughly the system is tested, bugs or errors deep into the computer programs causes problems. The other reason for performing system maintenance is to enhance the software's capabilities in response to changing organizational needs. Generally involving one of the following two situations.

1. Users often request additional features after they become familiar with the computer system and its capabilities.
2. Hardware and softwares are changing rapidly.

The total cost of maintenance is likely to exceed that of system development. At certain point it becomes more feasible to perform a new information system. Maintenance is an outgoing process over the life cycle of an information system. After the system is installed, maintenance usually takes the form of connecting previously undetected program errors. Once these are connected the system approaches a steady state, providing dependable service to its users.

FUTURE SCOPE OF THE PROJECT

FUTURE SCOPE OF THE PROJECT

The database produce in the PHP with the MYSQL has been a current importance in the field of management.

Every good project should be able to satisfy the present requirement of the user as well as reliable for future. Many things occur in the application where the project may get destroyed. This causes the project to develop some serious errors during development and the project becomes difficult to maintain. The situation may occur that causes the irrelativity of past & future data so the project should be develop in such a manner that it should not cause some any serious errors. The documentation of the project also plays very important part in maintenance phase. The project has many scope & a good provision for future. The project "Blossoms at Backyard" has been develop by keeping in mind the convenience of the user. Although multiple fields have been converted in the system, there are certain fields which can be modified to get a more accurate output. For a smooth functioning of a system it is very necessary to make proper modification so that the desired result is achieved and the user of the system is satisfied

- The system could be made flexible in nature and method to record any data could be modified. Thus, the system can be made more user-friendly by modifying certain areas in the system.
- The required information can be updated relevant to new amendments.
- This project procedure is user-friendly, simple and error free, it makes work to be carried out in a convinient manner.
- It is easy to understand and very attractive thus making the user work more enthusiastically.
- The web site can be used in any sector related to any kind of business and also can be used by any person as per the need.

- Implementation of user's suggestion and update can be done regarding the information as per necessity.
- We can add more feature as and when required, in this project, updates can be implemented as per the user's need.

CONCLUSION

CONCLUSION

The project involves function & procedures to provide information to the user. Each program, is designed in a way that runs accurately. System produces accurate result without any error. Finally, we conclude that the main aim of this project is to develop the logic by working with the different kinds of applications which are completely linkable to IT Profession.

Learning & developing this project has been helpful for us to understand the commands of PHP language in an absolute manner. This project has been helpful for us to implement what we have learned so far.

At last, we would like to thank all the people who were involved in the development of this website directly or indirectly. We hope that the project will serve its purpose for which it is developed there by underlying success of process.

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SYNOPSIS

**A
PROJECT SYNOPSIS
ON**

“Blossoms at Backyard”

Submitted to

**Rashtrasant Tukadoji Maharaj Nagpur University,
NAGPUR**

In the Partial Fulfillment of

B.Com. (Computer Application) Final Year

Synopsis Submitted by

Shivani M. Awatade

Sushmita L. Paunikar

Under the Guidance of

Pravin J. Yadao



**G. S. College of Commerce & Economics
Nagpur
2019-2020**

1. Introduction: (Write 4 to 5 lines)

An informatory website that will familiarize the user with “Horticulture”. People using this website will get to know a lot about gardening and cultivation of garden crops, medicinal and ornamental plants. They can also get a brief information about the popular gardening techniques like budding, landscaping, cultivation of bonsai etc. which will help them decorate their garden and grow organic fruits and vegetables by using organic methods. The user will also get to know more about types of tools and soils that are suitable for their crop and the ways to nurture them. This website will provide an opportunity for their users to share tips and tricks for others to adapt.

2. Objectives of the project: (Write only 5 points)

- A. To make people aware about cultivation of various garden crops, medicinal and ornamental plants.
- B. To encourage people to adapt the idea of “kitchen garden” so that they can get organic fruits and vegetable every day.
- C. To share the tips and tricks among people to beautify their backyards and gardens.
- D. To provide people a platform where they can educate others by sharing their experiences in the gardens.
- E. To encourage people to about tree plantation.

3. Project Category: Informatory Website**4. Tools/ Platform/ Languages to be used: Notepad, Windows 10 OS, PHP and My-SQL.****5. Scope of future application: (Write 4 to 5 points)**

- A. People will get aware about ways using which they can develop a healthy and beautiful garden and backyards for themselves.
- B. It will make people look after their gardens minutely by recording its everyday progress.
- C. It will make user focus on the details like suitable soils, fertilizers and will illustrate ways to make their own fertilizers by recycling their kitchen wastes.
- D. It will help people know more about budget-friendly ways to decorate their gardens without using harmful chemical fertilizers.
- E. It will encourage the idea of tree plantation among people.

Submitted by,

**Shivani M. Awatade
Sushmita L. Paunikar**

Approved by,

**Prof. Pravin Yadao
Project Guide**

