Α

**PROJECT** 

ON

"Build Clothes Recommendation System"

Submitted to

Shiksha Mandal's

G. S. COLLEGE OF COMMERCE & ECONOMICS, NAGPUR
(AUTONOMOUS)

In the Partial Fulfillment of

Com. (Computer Application) Final Year

B. Submitted by

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Under the Guidance of

Pravin J. Yadao



Shiksha Mandal's

G. S. COLLEGE OF COMMERCE & ECONOMICS, NAGPUR (AUTONOMOUS)

2021-2022

Shiksha Mandal's

# G. S. COLLEGE OF COMMERCE & ECONOMICS, NAGPUR (AUTONOMOUS)

### **CERTIFICATE**

(2021 - 2022)

This is to certify that Mr. /Miss Sharvani Wyawahare and Shirin Chaukiker has completed their project on the topic of 'Build Clothes Recommendation System' prescribed by G. S. College of Commerce & Economics, Nagpur (Autonomous) for B.Com. (Computer Application) – Semester-VI.

Date:

Place: Nagpur

Pravin J. Yadao

**Project Guide** 

**External Examiner** 

**Internal Examiner** 



### **ACKNOWLEDGEMENT**

We take this opportunity to express our deep gratitude and whole hearted thanks to project guide Prof. Pravin Yadao, Coordinator for his guidance throughout this work. We are very much thankful to him for his constant encouragement, support and kindness.

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Preeti Rangari, Prof. Prajkta Deshpande and Prof. Haresh Naringe for their encouragement, help and support from time to time.

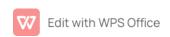
We also wish to express our sincere thanks to Principal Dr. N. Y. Khandait for providing us wide range of opportunities, facilities and inspiration to gather professional knowledge and material without which this project could not have been completed.

Sharvani Wyawahare

Shirin Chaukiker

Date:

Place: Nagpur



### **DECLARATION**

We (Sharvani Wyawahare and Shirin Chaukiker) hereby honestly declare that the work entitled "Build Clothes Recommendation System" submitted by us at G. S. College of Commerce & Economics, Nagpur (Autonomous) 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 2021-2022.

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

Sharvani Wyawahare

Shirin Chaukiker

Date:

Place: Nagpur

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### **INTRODUCTION**

### Introduction:

With the development of e-commerce technology, a growing number of people prefer to purchase clothes on the e-commerce websites. Therefore, an effective recommendation system is necessary for customers. User-based Collaborative Filtering (UCF) algorithm is widely utilized to predict the preferences of customers. However, UCF algorithm employs the sparse matrix and the recommendation has low precision. In this paper, an improved recommendation algorithm named Advanced User-based Collaborative Filtering (AUCF) algorithm is proposed and implemented in the clothing recommendation system. The proposed AUCF algorithm introduces user-item linked list, which can overcome the problem of large time complexity. Considering the impact of different popularity of items, AUCF algorithm is capable of publishing the negative influence of popular items, which can increase the recommendation coverage. Experiment results show the AUCF algorithm significantly increases the recommendation coverage and precision.

#### Goal

Shopping has long been considered a recreational activity by many.

Shopping online is No exception. The goal of this application is to develop a web based interface for online Retailers. The system would be easy to use and hence make the shopping experience Pleasant for the users. The goal of this application is

- To develop an easy to use web based interface where users can search for Products, view a complete description of the products and order the products.
- A search engine that provides an easy and convenient way to search for products Specific to their needs. The search engine would list a set of products based on the Search term and the user can further filter the list based on various parameters.
- An AJAX enabled website with the latest AJAX controls giving attractive and Interactive look to the web pages and prevents the



annoying post backs.

- Drag and Drop feature which would allow the users to add a product to or remove A product from the shopping cart by dragging the product in to the shopping cart Or out of the shopping cart.
- A user can view the complete specification of the product along with various Images and also view the customer reviews of the product. They can also write Their own reviews.

### **OBJECTIVES**

### **Objectives:**

The objective of this project is to group the users by their predicted body type and renting purpose, and apply collaborative filtering on them to recommend the clothes to our customer, based on the ratings of the most similar user. The goal of recommending the clothes is to improve the customers' shopping experience and preserve the ongoing trend in fashion world.

The main objective of the Online Shopping System is to manage the details of Shopping, Internet, Payment, Bills, Customer. It manages all the information about Shopping, Products, Customer, Shopping.

Service or product advertising The main purpose of a business site is to promote company's products, services or events on the Internet. There are two main aspects to discuss. First, there are websites that don't directly sell anything but their objective is to create "buzz" or awareness. An example would be, let's say an event - a trance music performance taking place next month. The purpose of the site is to generate interest so the people will attend the show. This kind of website might contain recorded presentations from previous shows, images with the performers, more details on the performance, etc...Secondly, there are

websites that both promote and sell products or services and this aspect is discussed below

Selling a product or a service online

This is basically the main reason behind the existence of any business website. Selling products and services is the most common objective. You have to provide full and comprehensive information on what you sell, allowing prospective customers to easily order from your site. The information must refer to:

- Features of the product or service
- Payment methods
- Return policies
- Warranties
- Shipping options
- Product or service F.A.Q.

If you sell directly from your website, you must consider additional security issues (example: SSL encrypted connections - https), and to address them in an adequate manner for a safe and pleasant user experience.

3. Providing product support and customer service

Due to its wold-wide nature, the Internet is a flexible structure allowing users to choose from thousands of similar products they are just one click away. What actually makes the difference between similar online businesses are the price and the customer support they provide. Top companies usually have outstanding customer services and assistance 24 hours a day, 7 days a week, 365 days a year. Not only the customer service is important to provide support to actual customers but it can generate sales while communicating with prospective clients, answering their questions and offering all the necessary information they need. By offering your clients the possibility to solve their problems in an easy way, you increase loyalty of actual customers and build a solid base of prospective customers - so placing a new order is just a matter of time.

### 4. Providing corporate information

Almost all big company websites have a section featuring pertinent corporate information for potential investors. The information in this section usually refers to: corporate background, company officials, different articles and editorials written about the company along with related images as well as contact information and links to personal profiles of company's representatives charged with management, customer care,

advertising, etc...

5.Establishing brand awareness and identity

Establishing brand awareness or company identity is an ongoing process with the purpose of branding products with memorable names, eye-catching logos and maybe a slogan. In order to establish brand identity, your website must address these elements in a unitary manner. The product logo must reflect the design of your website in terms of graphics, colours, font types and sizes (example: Coca Cola website). The slogan must be unique, original and appealing so the customers easily remember it. All these elements contribute to establishing a strong brand identity.

Brand awareness is important for both online and offline advertising, so all offline promotional items like banners, posters and leaflets must follow the same line as their online counterparts

### Preliminary investigation system

#### PRLIMINARY INVESTGATION STSTEM

Shopping on various online-retail websites requires the input of personal information (i.e. address and method of payment) time after time. The nuisance of entering a myriad of figures, often requiring 10-20 minutes, discourages customers from buying online. We wish to create a website/app that stores all of our user's personal information. When users connect to virtually any other online-shopping websites through our app/site, they don't need to type in any of their personal information. Simply grant the respective websites the rights to access one's personal info, and after 5 – 10 seconds, one will be on his/her way to receiving their new purchases in no time!

### **User Description:**

The customers of this product are American teenagers and adults, either sex, 13-50 year old teenagers and adults, for personal and internet use. This product is for the U.S. market. The user prefers a fast and easy checkout process when shopping online, yet desires to not spend too much extra money for this service.

### Present System In Use

#### PRESENT SYSTEM IN USE

In the existing system the ordering process is the process and sometimes the website get hanged because of overuse of website. In present system the company Registration facility is not well developed and sometimes we are not able to find the location of delivery person homes. In many of the website feedback is not well developed and most of the feedback hence they are not implemented and grow fastly.

### Flaws In Present System

#### FLAWS IN PRESENT SYSTEM

There are different flaws in current system they are Present system is not focuses on the customer feedback and hence they are not try to uplift their services and in many online ordering website they are not able to find the customer reaction in terms of emojis online herbs shopping is more or less like a intangible thing as we are dependent on the displayed pictures and description of The online product online payment leads to virtual pickpocketing many times.

Present system is not able to give the real-time information customer are not satisfied while ordering the herbs item. the main aim is to gain the trust of customers for online project which is totally natural and organic without any artificial method. So that they can take intake of herbs as by the physician order.

### **Need For New System**

### **Need of New System**

In the new system we introduce a emoji reaction to give feedback

.And again we will take the initiative of uploading the original
pictures of herbs the natural pictures of herbs so that the
customer will get the satisfaction of the product he want.

This system provides the best security which made transaction secure and proper return policy is available in the new system within the 1 hour in this website the price of the herbs products is is less as compared to the other online website.

### **FEASIBILITY STUDY**

#### FEASIBILITY STUDY

After doing the project online shopping study and analysing all the existence or required functionalities of the system the nexttask is to do the feasibility study for the project. Feasibility study includes consideration of all possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

### 1. Economical feasibility.

This is a very important aspects to be considered while developing a online ordering website. We decided the technology based on minimum possible cost factor.

\* All hardware and software cost has to be Borne by the organisation.

### 2. Technical feasibility

Technically this website is visible in nature because in all over environment the internet access facilities get well developed these also include the study of function performance and constraints that may affect the ability to achieve an acceptable system for this



feasibility study we studied complete functionality to be provided in the system as described in the system requirement specification and checked if everything was possible using different type of fronted and backend platforms.

### 3. Operational feasibility

No doubt the proposed system is fully g u i based that is very user friendly and all inputs to be taken all self explanatory even to the lyman .besides a proper training has been conducted to let know the essence of the system to the user so that they feel comfortable with the new system as far our study is concerned the client are comfortable and happy as this system has cut down their loads and doing it refers to the measure of solving problems with the help of new proposed system. **4.Social feasibility**Social feasibility is a determine of either a proposed project with will be

acceptable to the people or not this determination typically examine the

probability of the project acceptance by the group directly affected by the

proposed system change it describe the effect on user from the introduction of the new system considering whether there will be no need for retaining the workforce.

### 5. Behavioural feasibility.

Behavioural visibility is the analysis of behaviour of the candidate system in this we analyse that the candidate system is working properly or not if

working that it communicating proper with the environment or not all these matters are analyse and a good candidate system is prepared due to the change of system what is the change in behaviour of the users this factors are also analysed it includes how strong the reaction of staff will be towards the development of the new system that involves computers used in Daily life.

### 6. Legal feasibility

This assessment investigation whether any aspects of the proposed project conflict with legal requirement like zoning laws data protection acts or social media laws let se an organisation wants to construct a new office building in the specific location of feasibility study might reveal the organisation's ideal location is an zone for the type of business that organisation has just saved considerable time and effort by learning that their project was not feasible right from the beginning.

\* overall we have estimated that the benefits of the organisation is going to receive from the proposed system will surely overcome the initial cost and the latter on running cost for system.

### **PROJECT CATEGORY**

#### PROJECT CATEGORY

This category of the project that is "BUILD CLOTHES RECOMMENDATION SYSTEM" is a web application. Web application means a set of web pages in which first web page is a home page that is containing all kinds of other pages. Kit is a set of number of web pages design to provide complete information about the service provided by our website for the customer.

CASCADING STYLING SHEETS AND HYPER TEXT MARKUP LANGUAGE(HTML),

 Text Markup Language (HTML) is a collection of style used to create a

document for the World Wide Web(WWW), popularly know as the Web. 17

You can also create hypertext link, also know as hyperlink, to the other

documents or a portion of the other Web pages. Many companies publicize their products in web page by using HTML. The internet is an international network of computers that exchange information with each other. Cascading Style Sheet (CSS) is used to set the style in web pages that contain HTML elements. It sets the background color, font-size, font-family, color,... etc property of elements on a web page.

There are three types of CSS which are given below:

- Inline CSS
- Internal or Embedded CS
- External CSS
- Hyper text markup language is used for designing different web pages and if appearance. Due of HTML tags different special effect of

text,pictures,animation effect,color,effect, text size, font styles etc.

define to make more attractive web page. To understand different web page construction strategies adopted for attractive web page. To understand different web page construction strategies adopted for attractive web page representation, we can observe HTML codes or store while browsing the web page. Most of the web pages in different website are build up with HTML code.

 HTML, document consist of different instruction each Instruction is called as "Element" for building the web are used all HTML tags.
 It provide a means to create structured document by using text such as

heading,paragraph,lists etc.

 The appearance of Web page is important, and html, provides style to

make the document look attractive. You can use graphics,fonts,size, and

colors to enhance the presentation of a document.

 Hypertext Markup Language(HTML) is the standard markup language for creating web pages and web application. With cascading style sheets (css)and JavaScript it forms a triad of cornerstone technologies for the World

Wide Web.Web browser receive HTML documents from a Web server or

form local storage and render them into multimedia webpages.

HTML describes the structure of a web page semantically and originally

included cues for the document.HTML elements are the building blocks of HTML pages. 18 With HTML images and other objects, such as interactive forms, may be embedded into the rendered page. BASIC STRUCTURE OF THE WEBSITE PHP is a server side scripting language. That is used to develop static websites or dynamic websites or web applications, PHP stands for hypertext pre-processor, that earlier stood for personal home page. PHP script can only be interpreted on a server that has PHP installed.

The client computers accessing the PHP scripts file contains PI-1P tags and ends with the extension".php".

A file can also contain tags such as HTML and client side scripts such as

JavaScript. HTML is an added advantage when learning PHP language, you can even learn PHP language. You can even learn PHP without knowing HTML but its recommended you at least know the basics of HTML. :- he tag identifies the document as an HTML document. This tag is super flours after the tag, but it is necessary for older browser that do not support the tag. It is also helpful to the people who read the HTML code. The tag contain information about the document including its title, script, used, style, definition and document description. Not all browser require this tag but This is the first tag is every HTML document. This tag indicates that the content of the file is in HTML language. The entire document is place between the . Starts and end tags, HEAD TAG: most browser expect to find any available additional information about the document within tag. Additionally, the contains other tag that has information for search engines and indexing program.

19.

The encloses all tags, attributes and information that you want visitor's

browser to display almost everything else in This entire hook takes place

between the tag.

TAGS: . When css parses a file, it looks for opening and closing tags, which are which tell to start and stop interpreting the code between them, if a file contain only code, it is preferable to omit the html code, it is preferable to omit the PHP closing tag at the end of the file. HTML TAG

## SOFTWARE AND HARDWAREREQUIREMENT SPECIFICATION

#### **SOFTWARE & HARDWARE**

#### **SPECIFICATION**

#### **SOFTWARE:**

Software is defined as under it contain in which

Operating System and on which web browser has supported for

the performance of the website.

**Browser:** (Internet Explorer, Google Chrome)

Text Editor: (Notepad)

**OPERATING SYSTEM:**Windows 7, Windows 10

HARDWARE:

Hardware is being defined as under it contain how

processor speed and how much

RAM will be used for the better performance of the

website.

Installed RAM: 4.00 GB (3.88 GB usable)

Hard Disk: 1TB

Processor: Intel(R) Core(TM) i3-6006U CPU @

2.00GHz 1.99 GHz

Input: Keyboard and Mouse

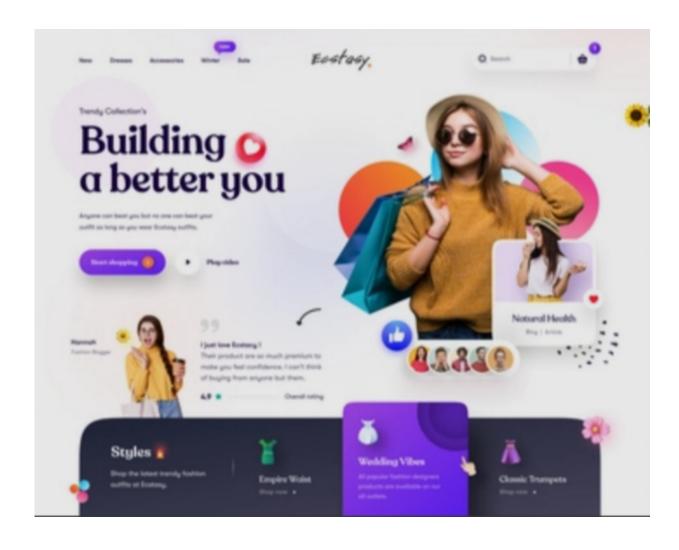
System Type: 64-bit operating system, x64-based

processor.

### **SYSTEM DESIGN**

# System Design Form Design

Home page







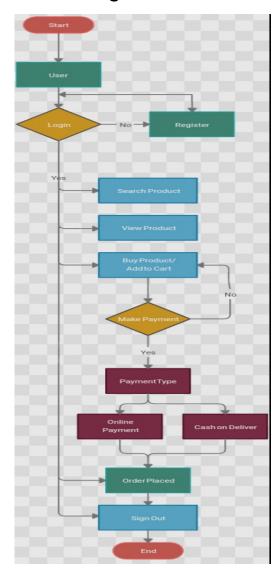




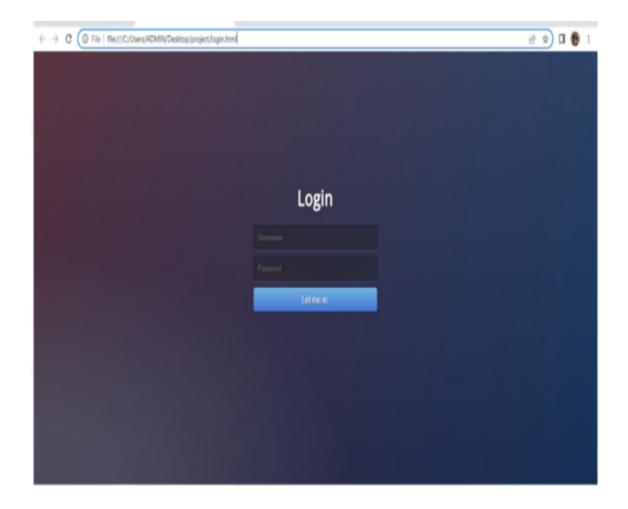




## Flow Diagram

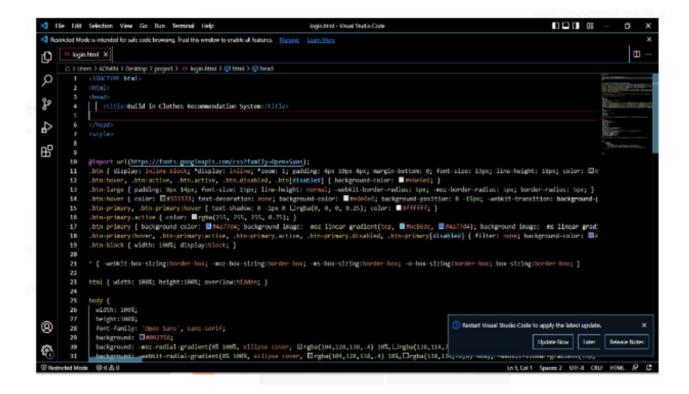


## Login Form



### Source Code

```
| Pile | Edit | Selection | View | Go | Run | Terminal | Help | Learn Minnsy | Le
```



### **TESTING AND VALIDATION CHECK**

#### TESTING AND VALIDATION CHECK

### 1) Acceptance Testing:

Acceptance Test is performed by the client and verifies that the system is full fill the business requirements and as it is as per the needs of the end-user. Client accepts these website because all the

features and functionalities work as expected. It is the last phase of the testing, after which the website goes into production. This is also called User Acceptance Testing (UAT).



### 2) Accessibility Testing:

Accessibility Testing is determine that the website is accessible via through internet. Here, disability means deaf, color blind, mentally disabled, blind, old age and other disabled groups.

Various checks are performed such as font size for visually disabled, color and contrast for color blindness, etc.

### 3) Beta Testing:

Beta Testing is a formal type of website Testing which is carried out by the customer. It is performed in the Real Environment before releasing the website to the market for the actual end-users. Beta Testing is carried out to ensure that there are no major failures in the software or food product and it satisfies the food business requirements from an end-user perspective.

### 4) Back-end Testing:

Whenever an input or data is entered on front-end webpage, it stores in the database and the testing of such database is known as

Database Testing or Backend 106 Testing. There are different databases like SQL Server, MySQL, and Oracle, etc. Database Testing involves testing of table structure, schema, stored procedure, data structure and so on.

### 5) Browser Compatibility Testing:

It is a subtype of Compatibility Testing (which is explained below) and is performed by the testing team. Browser Compatibility Testing is performed for web applications and it ensures that the software can run with the combination of different browser and operating system. This type of testing also validates whether web application runs on all versions of all browsers or not. And these website is compatible with any browser.

#### 6) Compatibility Testing:

It is a testing type in which it validates how software behaves and runs in a different environment, web servers, hardware, and network environment. Compatibility testing ensures that web application can run on a different configuration, different database, different browsers, and their versions. Compatibility testing is performed by the testing team.

### 7) Component Testing:

It is mostly performed by developers after the completion of unit testing. Component Testing involves testing of multiple functionalities as a single code and its objective is to identify if any defect exists after connecting those multiple functionalities with each other.

# **SYSTEM SECURITY MEASURES**

#### SYSTEM SECURITY MEASURES

We take security seriously at Online Shop. If you are a security researcher or expert, and believe you've identified security-related issues with Online Herbs Shop website, we would appreciate you disclosing it to us responsibly. Our team is committed to addressing all security issues in a responsible and timely manner, and ask the security community to give us the opportunity to do so before disclosing them publicly. Please submit a bug to us on our Online Shop feedback page, along with a detailed description of the issue and steps to reproduce it, if any. We trust the security community to make every effort to protect our users data and privacy. Online Shop provide the security of data hiding where the customer details are hide from others. Online Shop mainly focuses on the security while making any payment online and make transaction securely. We regret any disruption this may cause and appreciate your immediate attention to this information. If you have queries/concerns, please do not hesitate to contact us, we'll reach out to you right away.

# IMPLEMENTATION EVALUATION AND MA

### IMPLEMENTATION, EVALUATAND MAINTENANCE

#### **IMPLEMENTATION**

In current system we find more bugs and errors, so these bugs and errors get solved in new system. Here we made new system which generally focuses on the customer satisfaction, security and profile. Here we also implement the feedback option, so we can easily find out the customer emotion and satisfaction, generally Online Shop focuses on the customer feedback.

#### **EVALUATION**

Online clothes delivery services rely on urban transportation to alleviate customers' burden of travelling in highly dense cities. As new business models, these services exploit usergenerated contents to promote collaborative consumption among its members. This study aims to evaluate the impact of traffic conditions (through the use of Google Maps API) on key performance indicators of online clothes delivery services.

#### MAINTENANCE

In day to day basis and according to the market value and demand. We have to maintained our website in terms



order and money value. Day to Day transaction between the customer and the website will be maintain and successfully. Maintenance is necessary because to make the market we have to attract the customer with the help of daily offer and discount so that the marketing will grow and GDP growth will also increase. Day to day made implementation is necessary according to the user requirement, these implementation make the website well maintained and market suitable and also generate employment.

# **FUTURE SCOPE OF PROJECT**

#### **FUTURE SCOPE OF PROJECT**

1.Secure registration and profile management facilities for customer.

Browsing through the e-mail to see the items that are there in each category of products like Apparel, Kitchen accessories, Bath accessories, food items etc.

- 1. Creating a shopping card so that customer can shop N number of items and checkout finally with the entire shopping cart.
- 2. Customers should be able to mail the shop about the items they would like to see in the shop.
- 3. Secured mechanism for checking out from the shop [credit card verification mechanism]. Updates to customers about the recent items in the shop.
- 4. Uploading most purchases items in each category of products in the shop like Apparel, Kitchen accessories, Food items etc.
- 5. The current system can be extended to allow the users to create accounts and save products in to wist list.

- 6. The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- 7. The current system is confined only to the shopping card process. It can be extended to have an easy to use check out process.
- 8. Users can have multiple shipping and billing information saved.

  During checkout they can use the drag and drop feature to select shipping and billing information.

# **Conclusion**

### Conclusion

In Online shop lot of features are incorporated and the main beneficiaries is many of the customers will deal with different varieties of products. Moreover extra features can be identified and incorporated in

future. In order to accommodation additional features it will take longer time and effort to understand the requirement and converting it into computerized system.

Online shopping become more enjoyable and easier than the real world shopping. It is one of the application to improve the marketing of the company food product. My website which totally reduce paper

work which is indirectly a step towards cash economy. The knowledge gained while developing website will not just help me out in upcoming exams but in the near future as well.

# **Bibliography And Reference**

**Bibliography And Reference** 

Website

https://code-project.org

https://githrd.com