

A  
PROJECT  
ON

# “STUDENT ATTENDENCE TRACKING SYSTEM”

Submitted to

Shiksha Mandal's  
G. S. COLLEGE OF COMMERCE & ECONOMICS, NAGPUR  
(AUTONOMOUS)  
In the Partial Fulfillment of

B.Com. (Computer Application) Final Year

Submitted by  
Ayush Gakhare

Under the Guidances 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. AYUSH YOGESH GAKHARE has completed their project on the topic of STUDENT ATTENDENCE TRACKING 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.

We are also grateful to our teachers Prof. Rahul Tiwari, Prof. Sushma Gawande, Prof. 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.

Date:

**Ayush Yogesh Gakhare**

Place: Nagpur

## **DECLARATION**

I **Ayush Yogesh Gakhare** hereby honestly declare that the work entitled “**STUDENT ATTENDANCE TRACKING 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.

Date:

**Ayush Yogesh Gakhare**

Place: Nagpur

**INDEX**

# **INTRODUCTION**

## **INTRODUCTION**

Attendance tracking system is a software developed for daily student attendance in school, college and institutes. It facilitates to access the attendance information of a particular student in a in a particular class. The information is stored by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

# **OBJECTIVE**



## OBJECTIVE

- \* It saves time of both teacher as well as student
  - \* to make attendance process easier only data which is very compulsare has to be and all the unneeded data is excluded
- \* It will be srcured by the registered user id and password
- \* Instant notification to the parent at the absence of student
- \* Easy to mark attendance foe student
- \* It will also record the time which student spend in classes
- \* It provides the faciality for every to check attendance %
- \* It has no need of manual record
- \* It support the digital India

# PRELIMINARY SYSTEM ANALYSIS

# PRELIMINARY SYSTEM ANALYSIS

Analysis can be defined as breaking up of any whole so as to find out their nature,function etc. It defines design as to make preliminary sketches of; to sketch a pattern oroutline for plan. To plan and carry out especially by artistic arrangement or in a skillfulwall. System analysis and design can be characterized as a set of techniques and processes, a community of interests, a culture and an intellectual orientation.The various tasks in the system analysis include the following.

- Understanding application.
- Planning.
- Scheduling.
- Developing candidate solution.
- Performing trade studies.
- Performing cost benefit analysis.
- Recommending alternative solutions.
- Selling of the system.

Supervising, installing and maintaining the system. This system manages to the analysis of the report creation and develops manual entry of the student attendance. First design the students entry form , staff allocation and time table allocation forms. This project will help the attendance system for the department calculate percentage and reports for eligibility criteria of examination . The application attendance entry system will provide flexible report for all students.

## **EXISTING SYSTEM**

The Existing system is a manual entry for the students. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers. This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work. so the user find it difficult to use.

## **PROPOSED SYSTEM:**

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims to reduce the paper work and saving time to generate accurate results from the student's attendance. The system provides with the best user interface. The efficient reports can be generated by using this proposed system.

## **Advantages of Proposed System**

1. It is trouble-free to use.
2. It is a relatively fast approach to enter attendance
3. Is highly reliable, approximate result from user
4. Best user Interface
5. Efficient reports

## **FEASIBILITY STUDY:**

Feasibility analysis begins once the goals are defined. It starts by generating broad possible solutions, which are possible to give an indication of what the new system should look like. This is where creativity and imagination are used. Analysts must think up new ways of doing things- generate new ideas.

There is no need to go into the detailed system operation yet. The solution should provide enough information to make reasonable estimates about project cost and give users an indication of how the new system will fit into the organization. It is important not to exert considerable effort at this stage only to find out that the project is not worthwhile or that there is a need significantly change the original goal. Feasibility of a new system means ensuring that the new system, which we are going to implement, is efficient and affordable. There are various types of feasibility to be determined. They

are,

### **Economically Feasibility:**

Development of this application is highly economically feasible. The only thing to be done is making an environment with an effective supervision. It is cost effective in the sense that has eliminated the paper work completely. The system is also time effective because the calculations are automated which are made at the end of the month or as per the user requirement.

### **Technical feasibility:**

The technical requirement for the system is economic and it does not use any other additional Hardware and software. Technical evaluation must also assess whether the existing systems can be upgraded to use the new technology and whether the organization has the expertise to use it. Install all upgrades framework into the .Net package supported windows based application. this application depends on Microsoft office and intranet service ,database. Enter their attendance and generate report to excel sheet.

## **Operational Feasibility:**

The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system. Technical performance include issues such as determining whether the system can provide the right information for the Department personnel student details, and whether the system can be organized so that it always delivers this information at the right place and on time using intranet services. Acceptance revolves around the current system and its personnel.



**SOFTWARE AND HARDWARE**  
**REQUIREMENT SPECIFICATION**

# **SYSTEM SPECIFICATION**

## **3.1 HARDWARE REQUIREMENTS (Minimum Requirement)**

- Minimum RAM: - 1GB
- Hard Disk: - 128 GB
- Processor: - Intel Pentium 4( 1.50 GHZ) or above

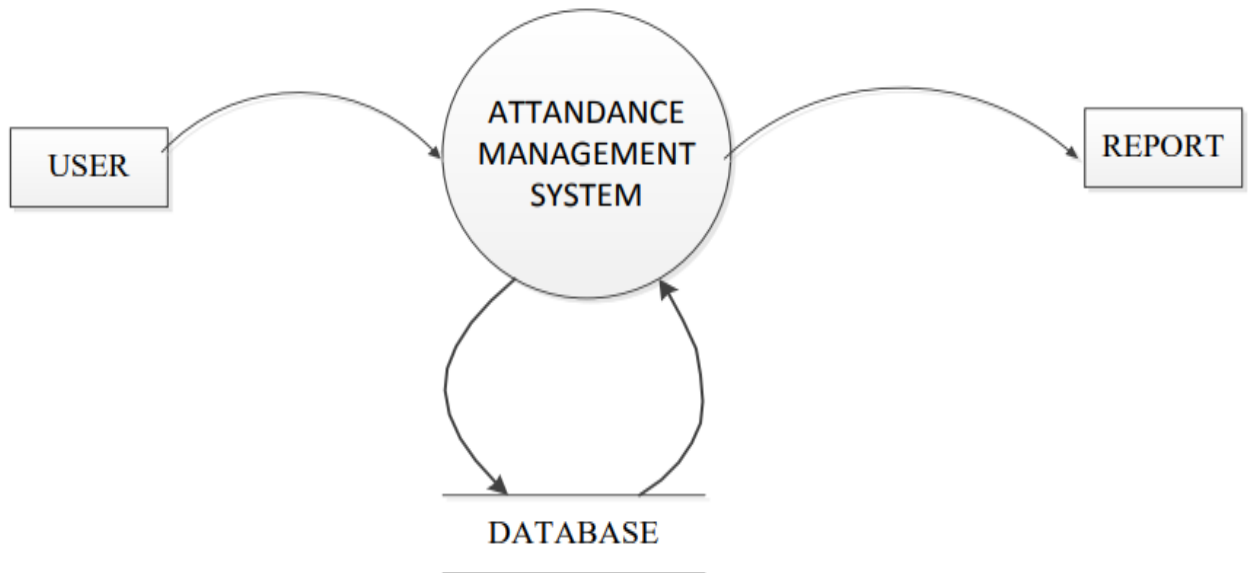
## **3.2 SOFTWARE REQUIREMENTS (minimum Requirement)**

- Operating System: -
- Front design: -
- Front-End Language: -
- Back-End Language: -

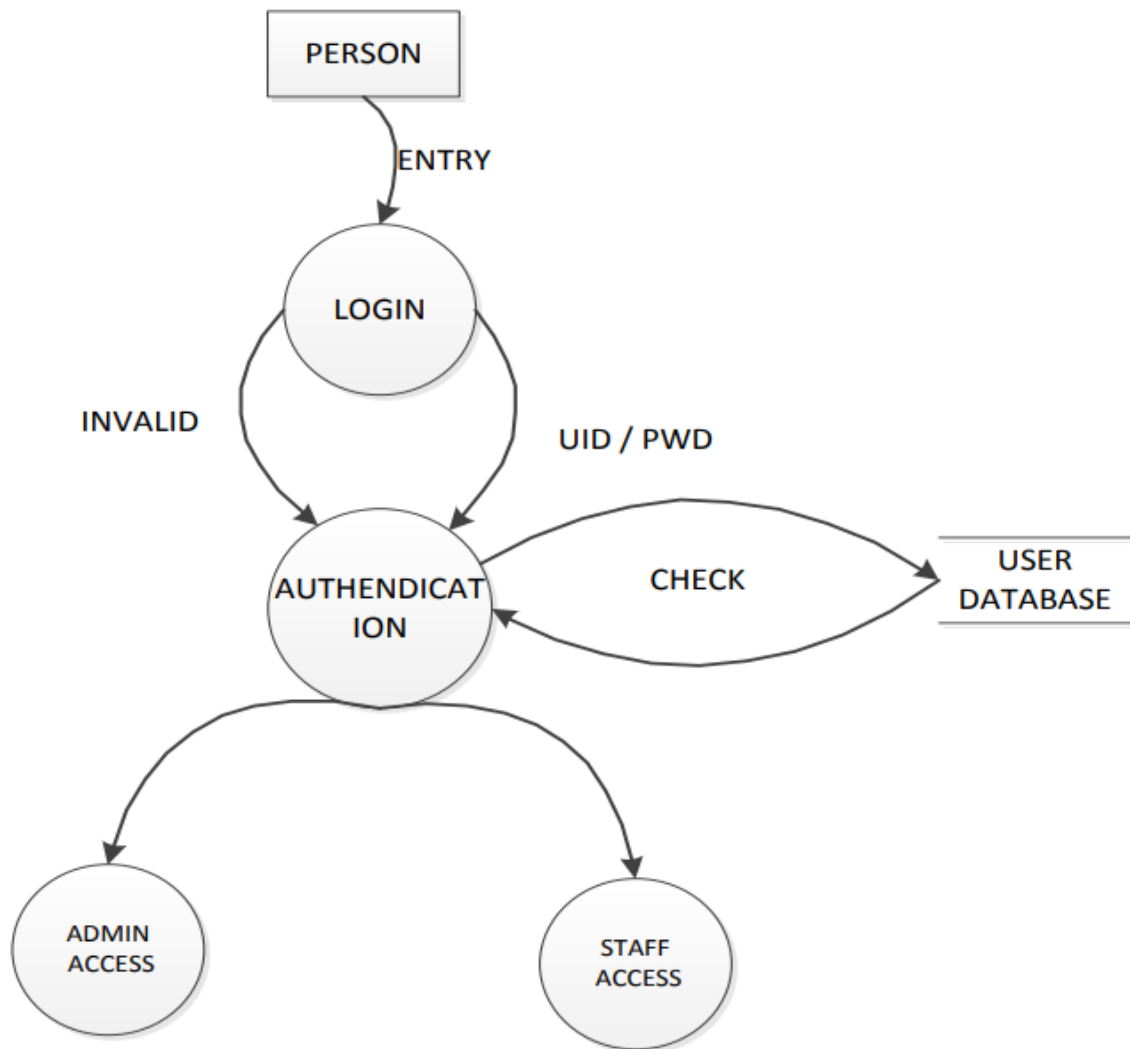
# **DETAILED SYSTEM ANALYSIS**

# Data flow diagram

## Data flow diagram 1 level 1

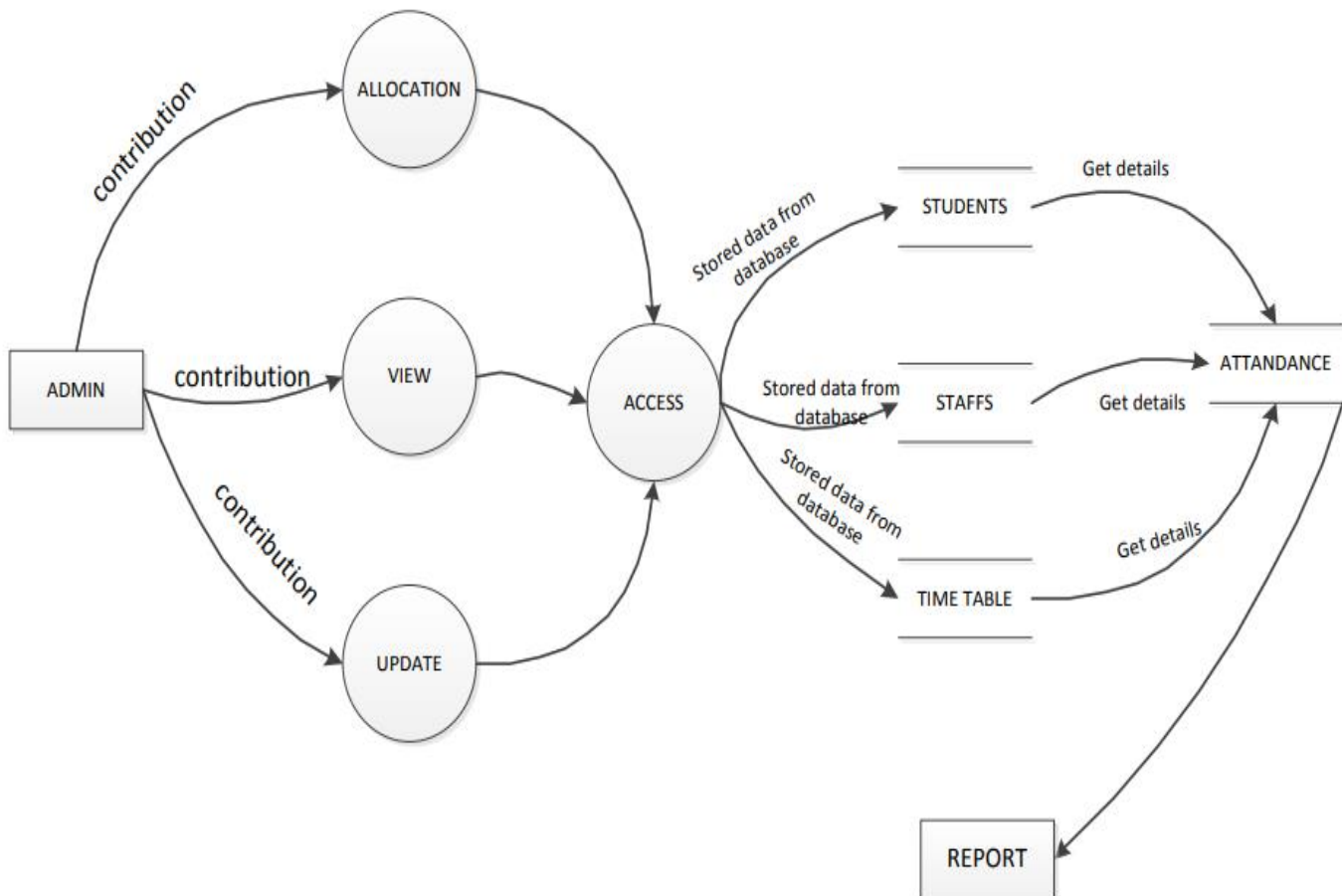


## Data flow diagram 2 level 2

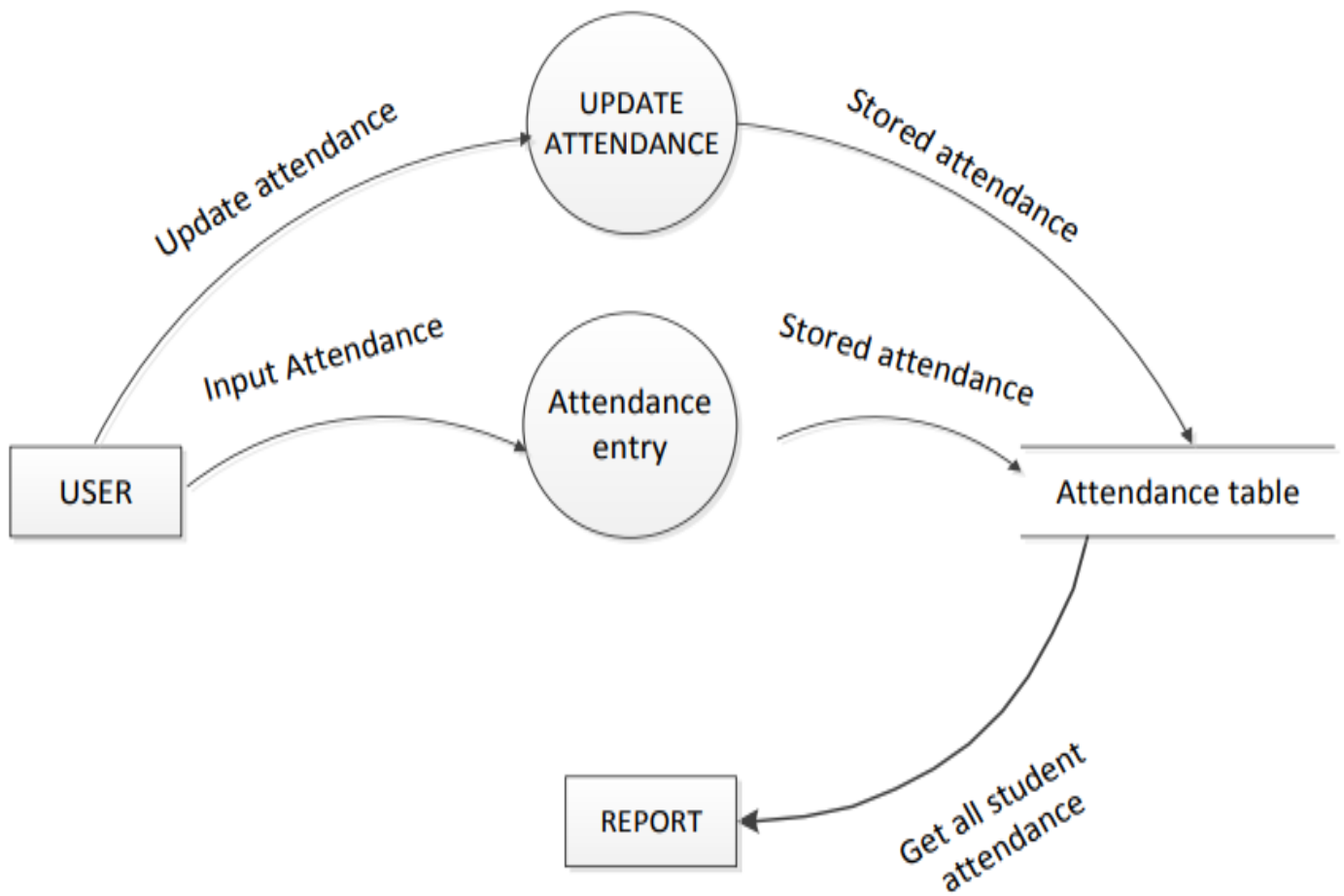


## Data flow diagram 3 level 3

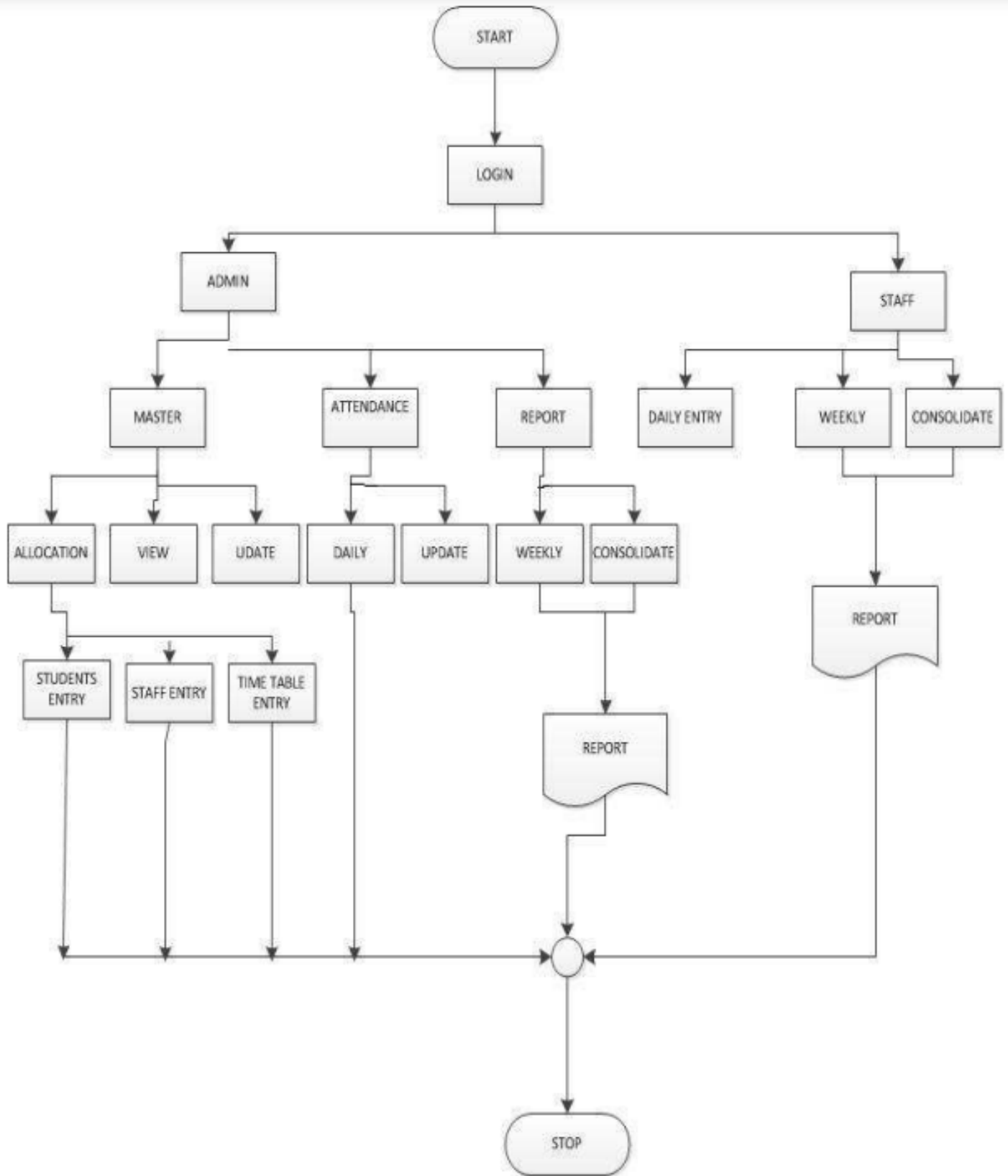
### for Admin



## For Staff

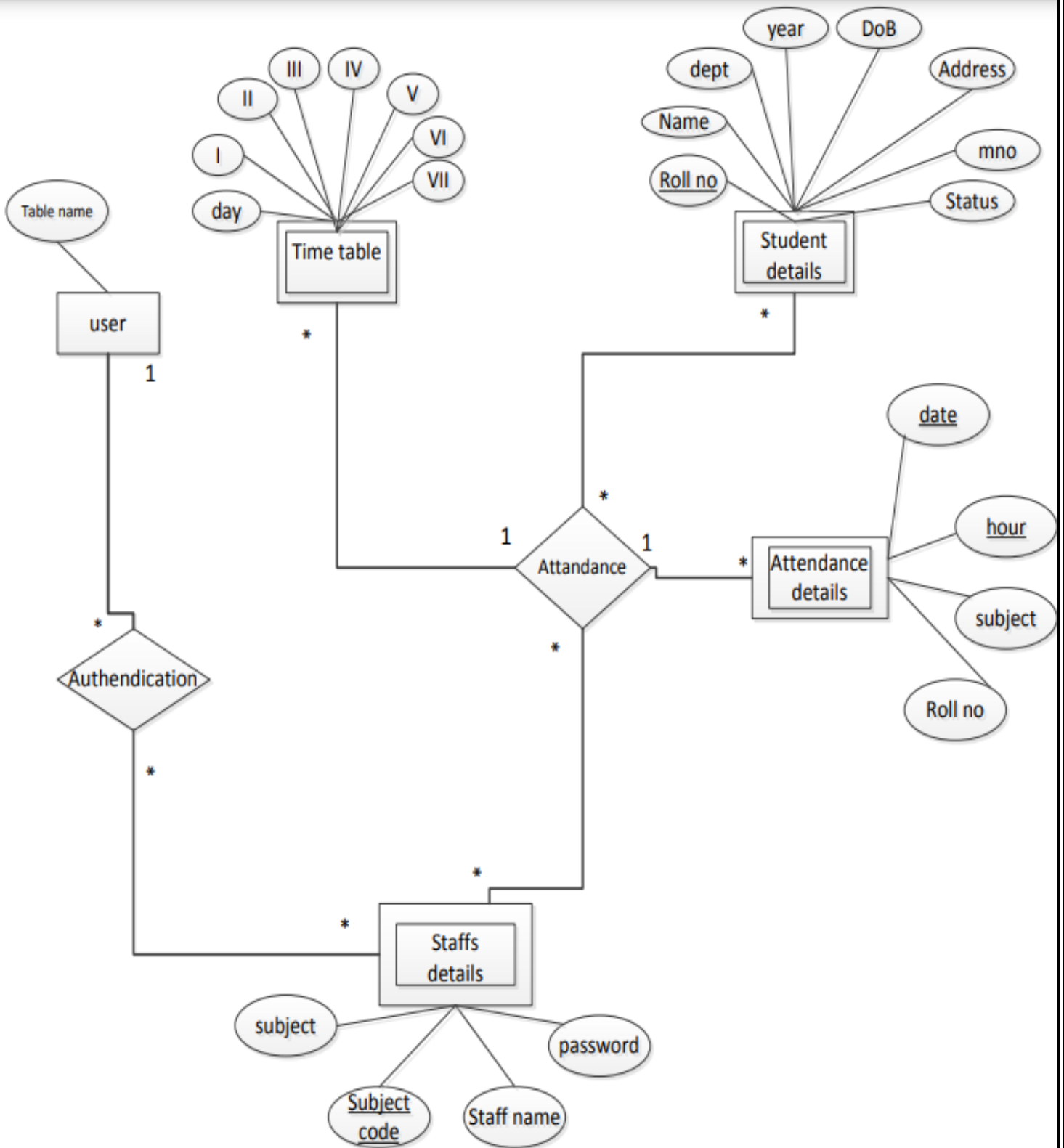


# NUMBER OF MODULS AND PROCESS LOGIC





# ENTITY RELATIONSHIP DIAGRAM

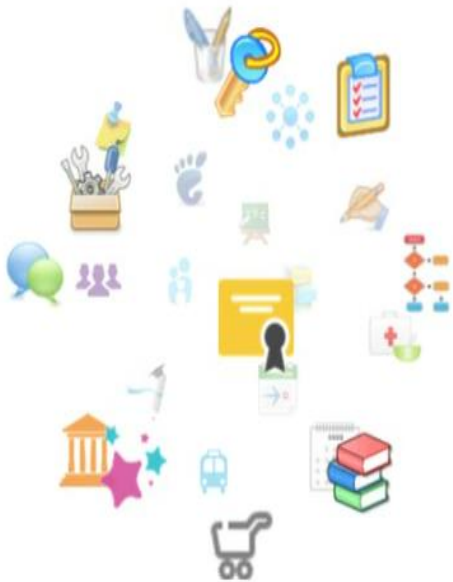


# **SYSTEM DESIGN**

# Login page

## Attendance Tracking System

---



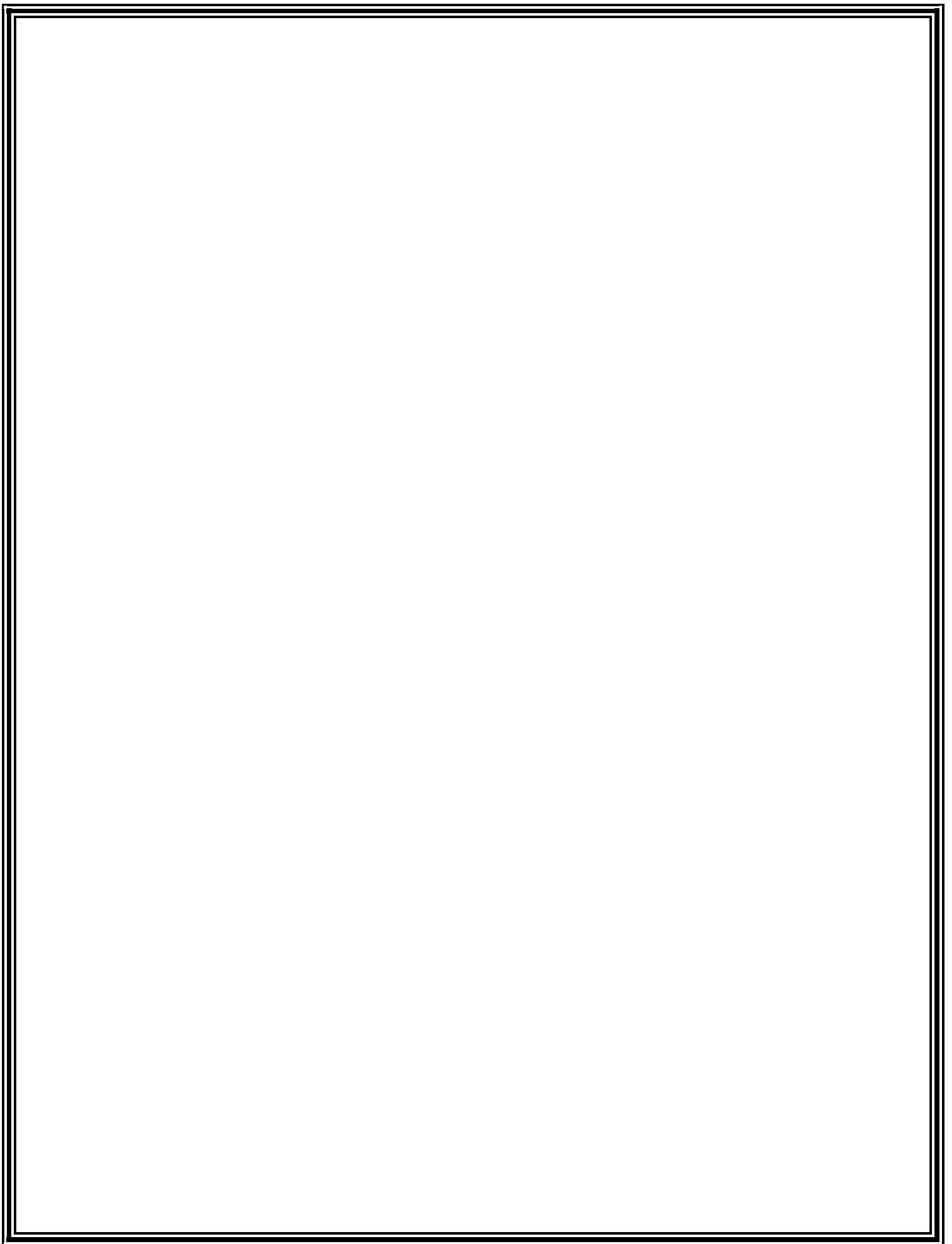
### Log In

Login Id

Password

[Sign In](#)

[Forgot Password](#)



# **SYSTEM SECURITY** **MEASURE**

## **SYSTEM SECURITY MEASURE**

The objective of system security is the protection of information and property from theft, corruption and other types of damage, while allowing the information and property to remain accessible and productive. System security includes the development and implementation of security countermeasures. There are a number of different approaches to system security. In this proposed system, we have provided the following security majors:

1. **Password**: the most widely method to prevent unauthorized access is to use passwords. The password needs to be kept secret and is only intended for the specific user. In this system, each password is associated with a specific username since many individuals may be accessing the same system.
2. **Accessibility**: In the website, with the help of admin username and password, only the admin has the right to update the website such as add, delete and update the products.
3. **System Automation**: In this system, with the use of selenium we can automating web application. Web driver is the successor to selenium, which accepts commands and sends them to a browser.

# **IMPLEMENTATION AND** **MAINTENANCE**

## **IMPLEMENTATION**

System implementation is the important stage of project when the theoretical design is tuned into practical system. The main stages in the implementation are as follows:

- Planning
- Training
- System testing and
- Changeover Planning

Planning is the first task in the system implementation. At the time of implementation of any system people from different departments and system analysis involve. They are confirmed to practical problem of controlling various activities of people outside their own data processing departments.

The line managers controlled through an implementation coordinating committee. The committee considers ideas, problems and complaints of user department, it must also consider:

- The implication of system environment
- Self-selection and allocation for implementation tasks
- Consultation with unions and resources available
- Standby facilities and channels of communication

Student Attendance management system will implement student details, staff handle subjects details, separate login details, time table details. It will used to entered subject wise attendance .This application elaborate attendance table generate weekly, consolidate report provide to the End user. Mostly this application will calculate date wise attendance .To select starting date to end date generate reports at the time of activities



## **MAINTENANCE**

Software maintenance is far more than finding mistakes. Provision must be made for environment changes, which may affect either the computer, or other parts of the computer-based systems. Such activity is normally called maintenance. It includes both the improvement of the system functions and the corrections of faults, which arise during the operation of a new system. It may involve the continuing involvement of a large proportion of computer department resources. The main task may be to adapt existing systems in a changing environment. Back up for the entire database files are taken and stored in storage devices like flash drives, pen drives and disks so that it is possible to restore the system at the earliest. If there is a breakdown or collapse, then the system gives provision to restore database files. Storing data in a separate secondary device leads to an effective and efficient maintains of the system. The nominated person has sufficient knowledge of the organization's computer passed based system to be able to judge the relevance of each proposed change.

# **FUTURE SCOPE OF PROJECT**

## **FUTURE SCOPE OF PROJECT**

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate and error free manner. The following are the future scope for the project.

- 1) Discontinue of particular student eliminate potential attendance.
- 2) Bar code Reader based attendance system
- 3) Individual Attendance system With photo using Student login

# CONCLUSION

## **Conclusion**

To conclude, Project Data Grid works like a component which can access all the databases and picks up different functions. It overcomes the many limitations incorporated in the attendance.

- ~ Easy implementation Environment
- ~ Generate report Flexibly

# **BIBLIOGRAPHY**

# **BIBLIOGRAPHY**

## **WEBSITES:-**

[www.google.com](http://www.google.com)

[www.youtube.com](http://www.youtube.com)

[www.wikipedia.com](http://www.wikipedia.com)

<https://www.javatpoint.com/>

## **BOOK REFERENCE:**

1) Programing with Java

By :- E .Balagurusamy