ARTS, SCIENCE AND COMMERCE COLLEGE

VIDYANAGARI, BARAMATI. DIST PUNE 413133.

Department of Computer Science

CERTIFICATE

This is to certify that project report entitled

"ONLINE LEAVE MANAGEMENT SYSTEM"

This is to cetify that Mr.

of M.Sc. I (Computer Science) has satisfactorily carried out the required Project Work according to the syllabus prescribed by the Savitribai Phule Pune University, Pune this project report represents his/her bonafide work in the year 2022-2023

Roll No: Examination Seat No:……

Project In Charge

Date: / / 2023

Head, Department of Computer Science

Date : / / 2023

PG Coordinator

Date: / / 2023

(INTERNAL EXAMINER) (EXTERNAL EXAMINER)

INDEX

AKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my Project guide **(Prof .Mr. Joshi Gajanan R.)** as well as our college principal **Dr. Bharat Shinde**, the Headof the Computer Science Department **Mr. Joshi Gajanan R**, who gave me the golden opportunity to do this wonderful project on the topic ***(BLOOD DONATION MANAGEMENT SYSTEM),*** which also helped me in doing a lot of Research in Internet Programming and I came to know about so many new things for which I am really thankful to them.

Secondly, I would also like to thank my brother and friends who helped me a lot in finalizing this project within the limited time frame.

Submitted by

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1. INTRODUCTION OF PROJECT

INTRODUCTION

In the existing system paperwork related to leave management, leaves are maintained using the attendance register for faculties. The faculties need to submit their leaves manually to respective HOD which increases paperwork and maintaining the records becomes tedious. The Leave Management System for VP college has been developed to override the problems prevailing in the existing system. Moreover this system is designed for the particular need of the college to perform operations in a smooth and effective manner.

This leave management system for VP college will reduce work as well as possible to avoid errors while entering the data. It also provide error message while entering invalid data and no formal knowledge is needed for the faculties to use this system.

Thus by this all it proves it is user-friendly system. Leave management system, as described above can lead to error free, secure, reliable and fast management system. It can assist the faculty concentrate on their activities rather to concentrate on the record keeping. Thus it will help to college in better utilization of resource.

The main objective of this is to decrease the paperwork and help in easier record maintenance by having a

particular centralized database system where leaves and personal information maintained.

EXISTING SYSTEM

In the existing manual system of leave management in educational institutions, if the members of faculty need to apply for a leave, they are supposed to submit a leave application to the HOD concerned. After receiving consent from the HOD concerned, the applicant needs to submit the leave application to the Principal for further approval. If the HOD or the Principal is not available, then the members of faculty cannot get consent for their leave application. Also the retrieval of information like the number of leaves available becomes a cumbersome task as it requires scanning of the entire record. Limitations of the Existing System:

- It requires a lot of effort.
- It consumes more time.
- It requires lots of paper work.
- No security for data. ϖ Unavailability of required authorities.
- Report generation is complicated.

SCOPE AND LIMITATION

To manage the details of staff attendance, and records of their leaves.

Easy to operate and hopefully can smoothen up the job of clerks and staff.

This system produces a computerized system for defining the best solution for the leave application.

Easy access to staff records.

PURPOSE OF SYSTEM

The purpose of the project is to build an application program to reduce the manual work for managing staff leave.

To generate inquiry for staff on demand.

To keep all the information related to pending leave.

Well-designed database to store faculty information.

The main objective of this application is to automate as well as update the leave information of staff.

It tracks all the details about faculty, and attendance.

If the any of the faculty wants to know about his/her leave status it will be very

2. PROPOSED SYSTEM

OBJECTIVES OF SYSTEM

- This system will provide the management with more effectiveness.
- Provides searching facility based on various factors such as leave, faculty name and department.
- Well-designed database to store faculty's information.
- A user friendly front-end for the faculty to interact with system.
- No need to present physically to faculty.
- No chances of data loss.

FACT FINDING TECHNIQUES

To study the system you need to collect the facts. Facts are expressed in quantitative form can termed as data. Success any requirement investigation depends upon availability of accurate and reliable data. These depend on the appropriateness of the method chosen for data collection. The specific methods used for collecting data are called Fact Finding Techniques.

Following are the methods of fact finding techniques:

I. Interview:

Many people from different section have been interview and respective information has been collected from them. This one of the important requirement determination technique used as it provided with lot of information. This technique helps in knowing the positive and the negative points along with the additional features that the user wants in the system.

Requirement determination technique focuses on various information structural and procedure details of the current system. It helped in identifying various input and output. The entire system also evaluates client as a human being, which was helped designing the system and providing graphical user interface. **II. On Site Observation:**

Drawbacks of the existing system were noted down. The client specification was taken into consideration. **III. Other Sources:**

The company has been visited many items, which helped in getting the precious information, input output. This technique helped us to know the various calculate process of OnlineManagementSystem.com and also helped in developing good human relation with company staff and management**.**

Feasibility Study:-

The Feasibility Study is the one that lets our proposed work to put into real action.
This relates with whether our system performance is best or not, it Worth's or not, etc. It actually points to whether the user requirements are getting fulfilled or not.

We are having three different feasibility types for the feasibility study as follows:

1) Technical Feasibility:

If the system processes huge amount of data then the System is technically feasible.

2) Economic Feasibility:

Automation leads to cost reduction and beneficial to cost analysis of the system. Economically, the systems capable of 0purchasing the required setup.

Automation results in the reduction of manpower and processing time.

3) Operational Feasibility:
Will the system be used if it developed and implemented ? Will there be a resistance from the user to the new system. The system will provide timely information and status of the various activities to manage, to facilitate the user of the system.

Thus, it is concluded that the system is technically, economically and operationally feasible.

Technology Used.

LANGUAGES USED:

1. PHP :

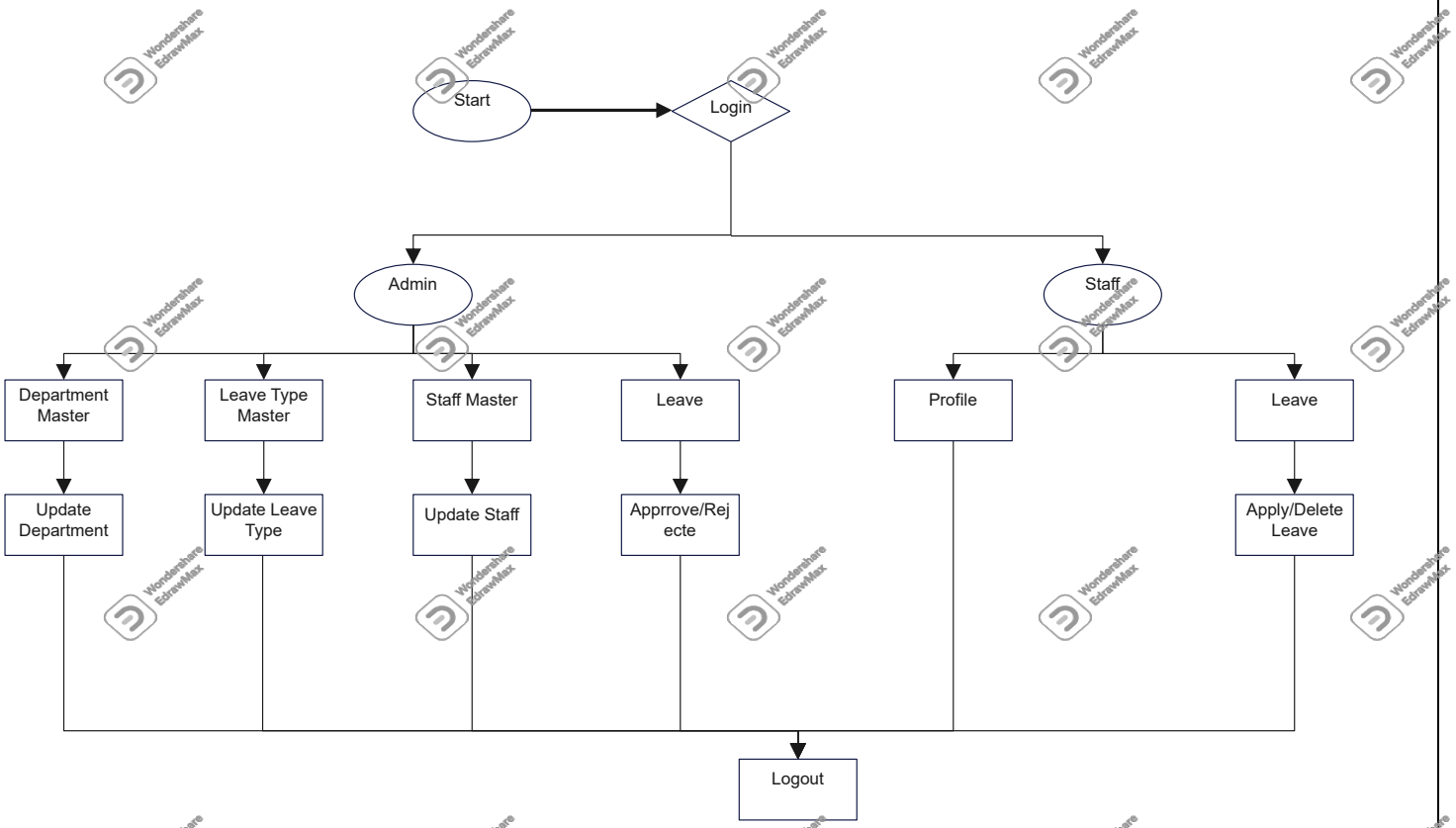
PHP is an open-source server-side web application framework designed for web development to produce dynamic web pages developed by Microsoft to allow programmers to build dynamic web sites, applications and services.

2. MySQL Server:

Used MySQL database . MySQL is used for save the data in the database. Database used to store and retrieve data from the database.

3. SYSTEM ANALYSIS

1) Flow Charts



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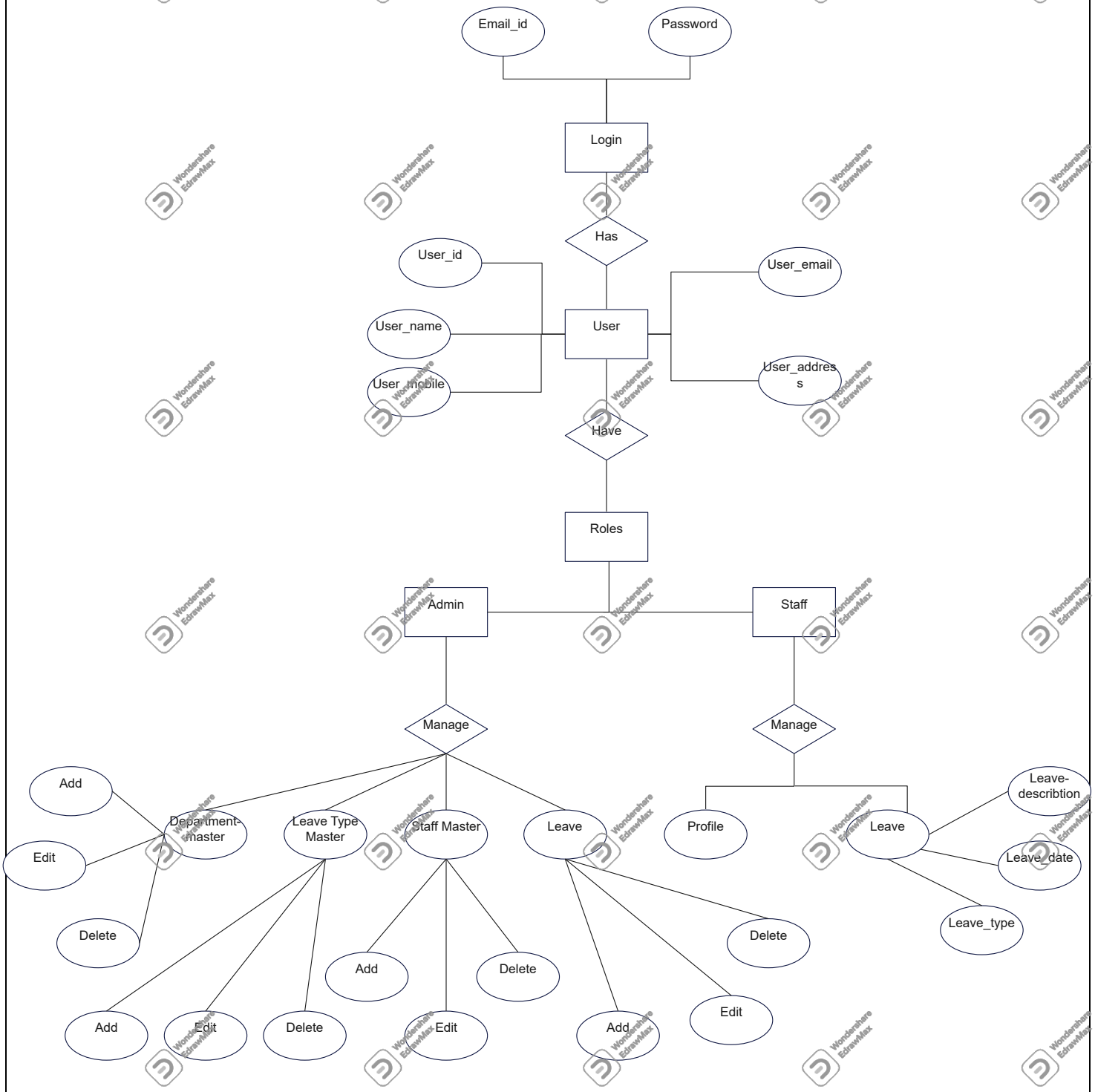
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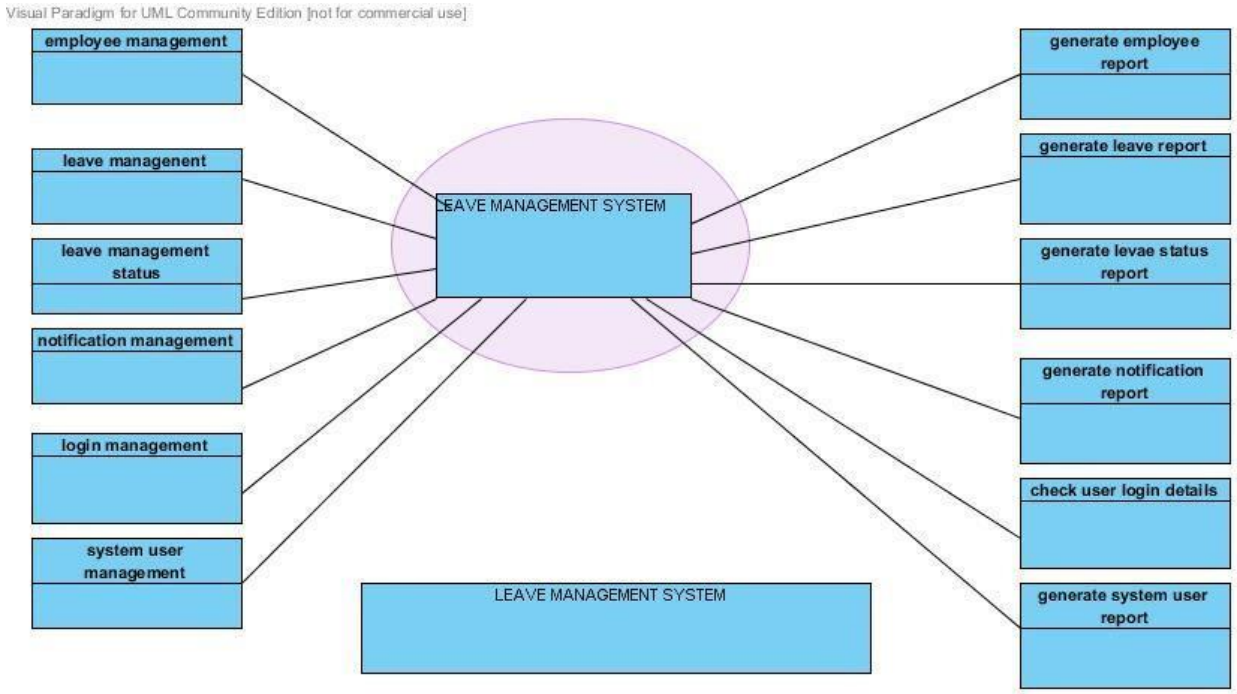
USE CASE DIAGRAM



4. SYSTEM DESIGN

Input Design:-

The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.

PROJECT PERSPECTIVE , FEATURS

By considering the pros and cons of the existing system, this application has been developed to cover all the features and overcomes the cons of the existing system. In the proposed system of Online Leave Management App, the registered members of faculty can simply generate a leave request anywhere and anytime providing the required details. The leave request thus generated is sent to the HOD concerned for consideration which can be approved or rejected. In case of approval by the HOD concerned, the leave request is automatically forwarded to the Principal for further evaluation. This saves a lot of time and effort. The HOD and the Principal can access the leave applications delivered to them anywhere and anytime. Also the members of faculty can view their leave account without going through the entire record. By availing the benefits of this app, members of faculty and HOD can generate leave requests and get them approved even in the case of absence of required authorities. This app enhances security to the leave records of employees.

- The application procedure is made easy.
- The members of faculty can check their leave status.
- Reduces a lot of time and effort.
- Reduces paper work.
- Friendly User Interface

Enhances security Flexible to retrieve the information

Output Design:-

A quality output is one, which meets the requirements of the user and presents the information clearly. In output design it is determined how the information is to be displaced for immediate need and also hard copy of output. It is the most important and direct source information to user. Efficient and intelligent output design improves the system relationship to help user decision making.

Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element in designed so that people will find the system can use easily and effectively. When analysis design computer output, they should

Identify the specific output that is needed to meet the requirements.
Select method for presenting information.
Create document, report that contain information produced by system

Empolyee

Sr. No.	Field Name	Data type	Constraint	Description
1	Fullname	varchar(50)	Not Null	Username
2	Mobileno	varchar(50)	Not Null	Mobile No
3	Email	varchar(50)	Not Null	Email
4	Department Id	int	Not Null	Department Id
5	Gender	varchar(50)	Not Null	Gender
6	Password	varchar(50)	Not Null	Password
4	Address	varchar(200)	Not Null	Address

Department

Sr. No.	Field Name	Data type	Constraint	Description
1	Id	int	Not Null	Id
2	Department	varchar(50)	Not Null	Department

USER - NEED BLOOD

Sr. No.	Field Name	Data type	Constraint	Description
1	Id	int	Not Null	Id
2	Employee Id	int	Not Null	Employee Id
3	Leave Id	int	Not Null	Leave Id
4	Leave From	Date	Not Null	Leave From
5	Leave to	Date	Not Null	Leave to
6	Description	varchar(50)	Not Null	Description
7	Status	varchar(50)	Not Null	Status

ADMIN LOGIN LOGIN

Sr. No.	Field Name	Data type	Constraint	Description
1	Username	varchar(50)	Not Null	UserName
2	Password	varchar(50)	Not Null	Password

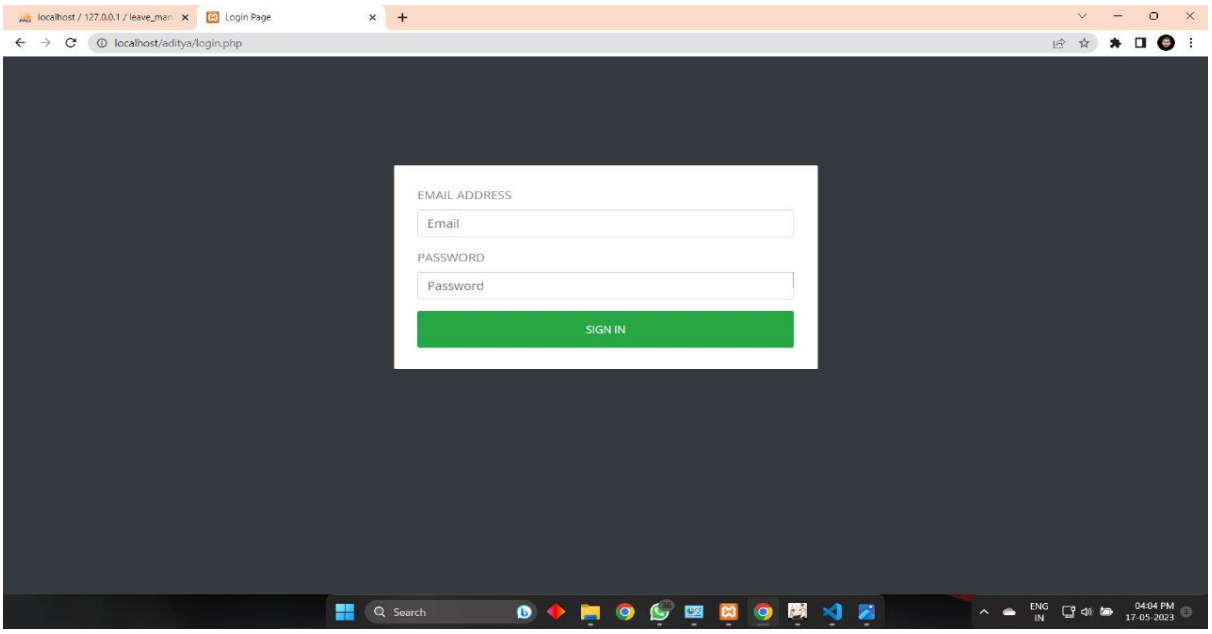
CHANGE PASSWORD

1) Change Admin Password

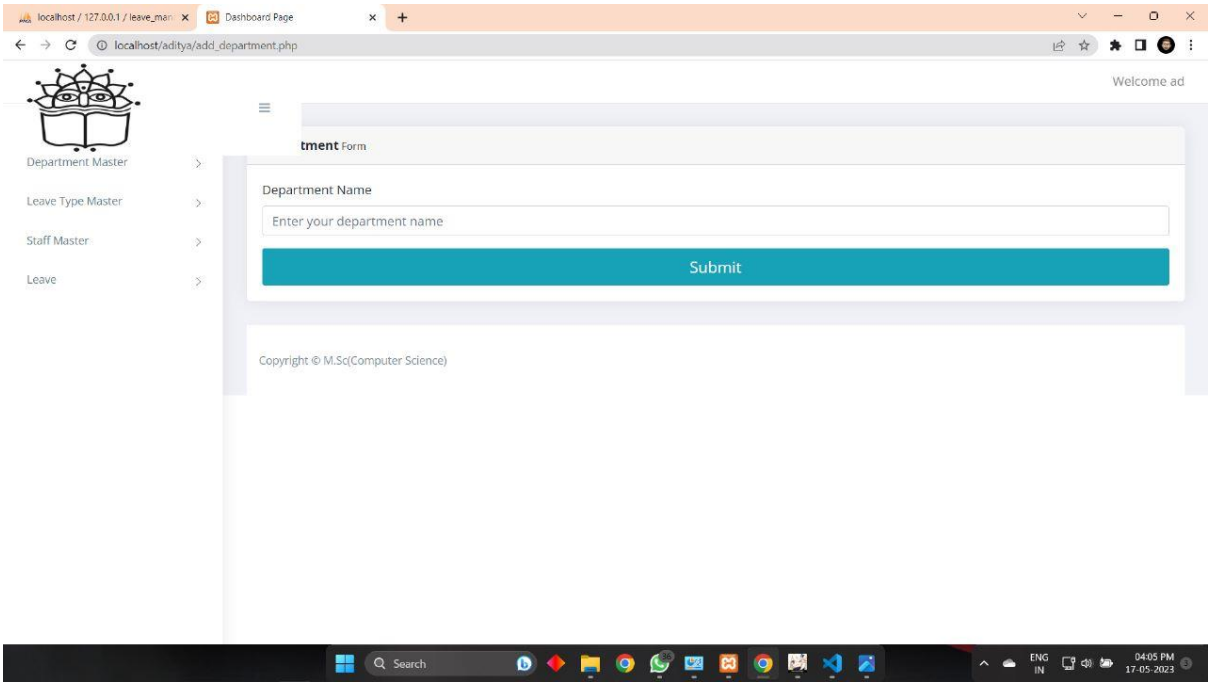
Sr. No.	Field Name	Data type	Constraint	Description
1	Id	int	Not Null	Id
2	Leave Type	varchar(50)	Not Null	Leave Type

Screenshots:-

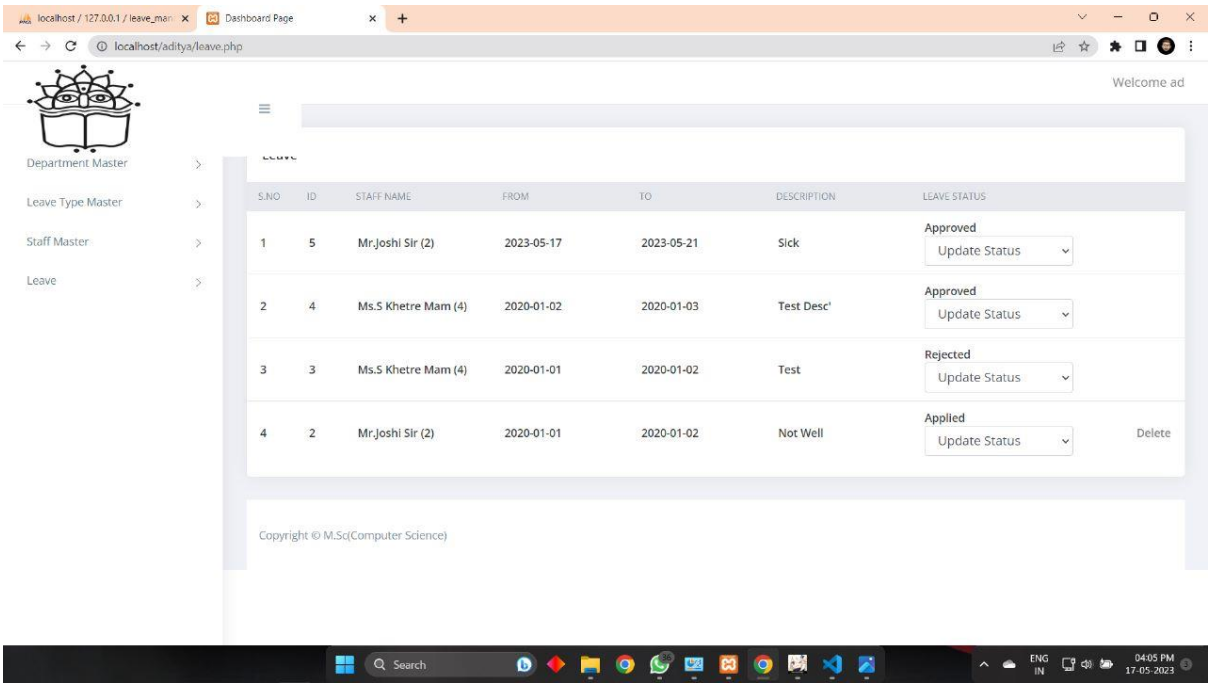
Login Page:-



Home Page :-



Leave:-


localhost / 127.0.0.1 / leave_man
Dashboard Page
localhost/aditya/leave.php
Welcome ad
Department Master
Leave Type Master
Staff Master
Leave
S.NO ID STAFF NAME FROM TO DESCRIPTION LEAVE STATUS
1 5 Mr.Joshi Sir (2) 2023-05-17 2023-05-21 Sick Approved Update Status
2 4 Ms.S Khetre Mam (4) 2020-01-02 2020-01-03 Test Desc' Approved Update Status
3 3 Ms.S Khetre Mam (4) 2020-01-01 2020-01-02 Test Rejected Update Status
4 2 Mr.Joshi Sir (2) 2020-01-01 2020-01-02 Not Well Applied Update Status Delete
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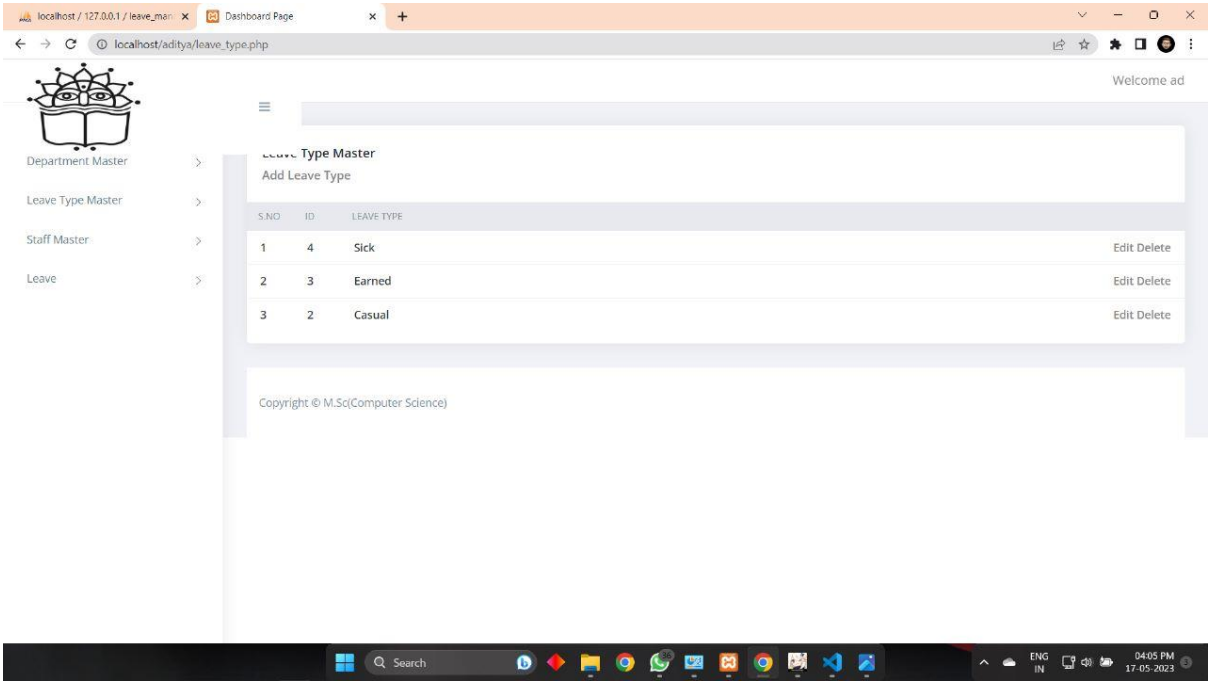
localhost / 127.0.0.1 / leave_man
Dashboard Page
localhost/aditya/leave_type.php
Welcome ad
Department Master
Leave Type Master
Staff Master
Leave
Type Master
Add Leave Type
S.NO ID LEAVE TYPE
1 4 Sick Edit Delete
2 3 Earned Edit Delete
3 2 Casual Edit Delete
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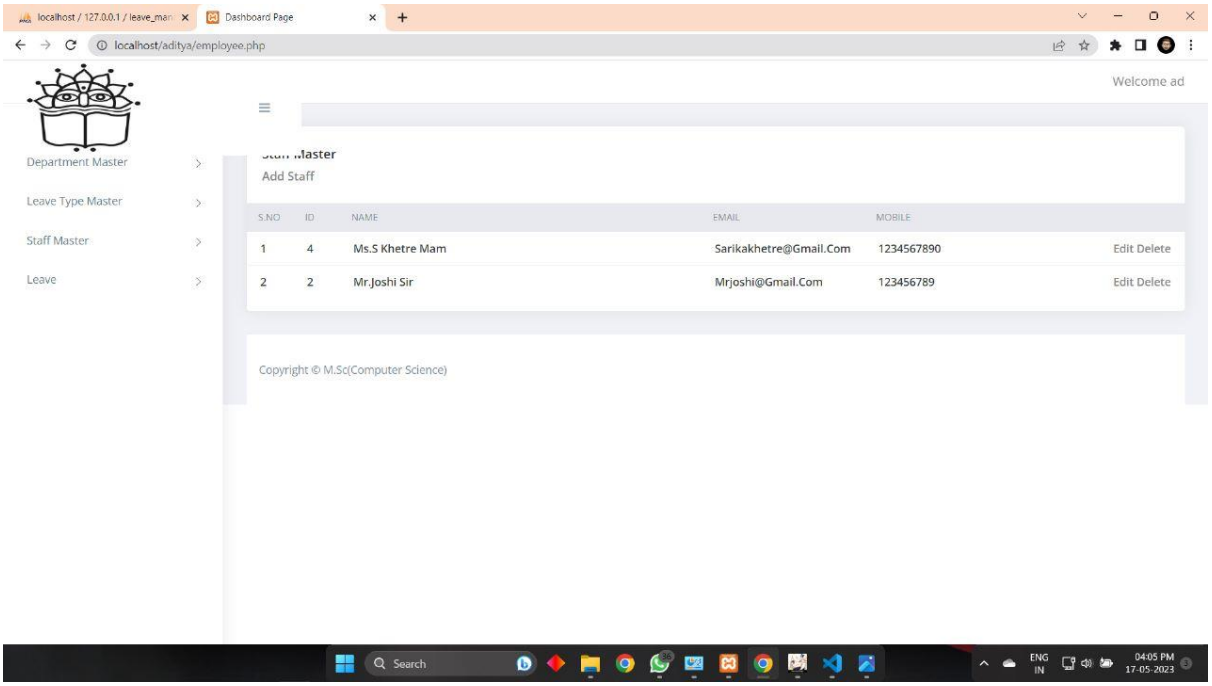
Staff Master :-



5. IMPLEMENTATION

System Requirement:-

- **Hardware-**

Processor : intel i3 or as above

Hard disk : 40 GB

Memory : 256 MB ROM or above

- **Software-**

Operating system: Windows XP or above.

Development database: MySQL Server as backend tool.

Frontend : PHP and html.

Browser: Google Chrome. Xampp.

Test cases

1.	**Test case ID**	**Login**
2.	**Precondition**	• **Enter Email ID Enter password** • **Click “Login” button**
3.	**Description**	**If username and password match, the users (donor or recipient) respective pages have to be displayed**
4.	**Test Steps**	• **Enter username Enter password** • **Click “Login” button**
5.	**Expected Output**	**Displays a welcome message. Apply page for faculty and HOD,HOD applications page for Principal have to be displayed**
6.	**Actual Output**	**Displayed a welcome message .Apply page for faculty and HOD,HOD applications page for Principal are displayed.**
7.	**Status**	**Pass**
8.	**Remarks**	

1.	**Test case ID**	**Applying the leave**
2.	**Precondition**	**Leave dates ,type, reason should be specified. Sufficient number of leaves are available.**
3.	**Description**	**If the number of leaves are sufficient, The leave details should be entered into the database**
4.	**Test Steps**	• **Enter the login details** • **Enter leave details**
5.	**Expected Output**	**After entering the leave details into the database, a message should be displayed as "Applied successfully"**
6.	**Actual Output**	**Displayed a message as "Applied successfully"**
7.	**Status**	**Pass**
8.	**Remarks**	

Conclusion & Suggestions

A) Conclusion:-

The Online Leave Management App is developed to facilitate easy processing of leaves in educational institutions. Manually, this consumes a lot of time, effort and paper work. And also if the concerned authority is not available, the task of availing a leave becomes complicated .So, this app overcomes all these limitations and offers a great deal of help at each and every stage in the whole process of availing a leave.

B) Limitation of system:-

- It requires a lot of effort.
- It consumes more time.
- It requires lots of paper work.
- No security for data
- Unavailability of required authorities
- Report generation is complicated

FUTURE ENHANCEMENT

This project Online Leave Management Application has been developed in such a manner, that the future requirements of the user are met. The project is flexible to adapt the changes efficiently without affecting the present system. In future, there can be a provision to adjust the lecture hours on leave dates to other members of faculty through the app.We are also planning to implement the app on various other mobile platforms like Windows and iOS. This is the future scope of our project.

7. REFERENCES

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