

PROJECT REPORT
ON
Employee Management System

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L.J.POLYTECHNIC, AHMEDABAD

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CERTIFICATE

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This is to certify that **Mr. PATEL JUGAL , Ms. PRAJAPATI SHRUTI , Mr. TELI SUMIT And Mr. MUNSHI DISHANK** from LJ POLYTECHNIC having Enrollment No. **186330307071 , 186330307081 , 186330307113 And 186330307521** have completed project documentation and development on the problem definition of semester VI during the academic year 2020-21 having Title ***Employee Management System*** in a group consisting of 4.

Institute Guide

Head of the Department

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We would thank God for being able to complete this project with success. Then We would like to thank our teacher Whose valuable guidance has been the ones that helped us patch this project and make it full proof Success his suggestions and his instructions has served as the major contributor towards the completion of the project. Secondly we would also like to thank our parents who supported in our project.

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ABSTRACT

Due to the advancement in the technology and saving the time with large number of Employee, there is need of the system which handles large number of employees. Employees are the backbones of any company therefore their management plays a major role in deciding the success of an organization. This project simplifies the tasks of handling each employee's personal as well as assigned details which can be accessed by himself or the administrator. This web-based application is developed for overriding the problems with handling the system manual. This system has more user-friendly interface and doesn't need any formal knowledge to carry out the operation in a smooth and effective manner. This application includes various features like leave management, task management, Attendance system and salary management which helps in effectively using the application and also reduces the possibility of the errors.

CHAPTER 1

INTRODUCTION

1.1 Need of the system

- In this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization.
- Employee Management System makes it easy for the employee to keep track of all records.

1.2 Detailed problem definition

- Design of a web-based Employee management system to fulfil requirements such as project management, leave management, report generation to assist in performance appraisal.
- Well-designed database to store employee information.
- A user friendly front-end for the user to interact with the system.
- Employees will have access to their personal profiles and will be able to edit their details.
- An employee apply for leave as well as check their leave status through the system. This will also enable the HR manager to accept/reject leave application through the system.

1.3 Viability of the system

- A flexible and easy to use Employee Management system solution for small and medium sized companies provides modules for personnel information management thereby organization and companies are able to manage the crucial organization asset- people.
- Complete elimination of paperwork in leave management.

1.4 Presently available system

- <https://www.pockethrms.com>
- <https://www.orangehrm.com>
- The records are maintained manually.
- In this system is not very User-Friendly.
- Existing system is based on standalone system.

1.5 Future prospects

- In future this system would be expand by adding client feature.
- This system also provide high security using digital biometric attendance system.

CHAPTER-2

ANALYSIS

2.1. Requirement Analysis

Authentication

- Login – the Employee can login to the system with his/her username and password.
- Logout – the Employee can log out from the system.
- Login failure – if the Employee does not exist in the database or the user has not yet been authorized by the admin of the system.

Process data

- **Display** – Employee with defined roles can display the contents of the database like employee can only view his/her personal info Project manager can see his/her personal info and also employee's information who are working under his/her department.
- **Edit** – A user with employee role can edit his/her specific personal information. Project manager can only edit employee's personal information. Admin can edit all information related to all employee's including their user role type.
- **Search** – user with project manager role can search the content of database for the employees who are under his/her coverage. HR and Admin role can search all employee's info in the database. search feature works on specific keywords showing employee's characteristics, skills, features, etc. for example, HR wants to find employee's characteristics who are well trained in “java

programming”. He/she will write the specific keyword and then it will give then he/she will get a list of all employees who know “java programming”.

- **Update authentication** – This feature can be used by admin and HR. Admin can update the role type of a specific user. for example, an employee got promotion and his role will be changed from employee to project manager. Admin will be able to update this authentication mechanism.

Leave application/approval

- **Leave application** – the employee can be able to fill leave application form in the appropriate fields.
- **Leave approval** – the HR can be approve/deny leave application based on the reason.

Employee Registration

- **Add new employee** – HR and admin are able to add new employee to the database. New employee will have all the personal information related to his/her and employees will have an own id.

Report generation

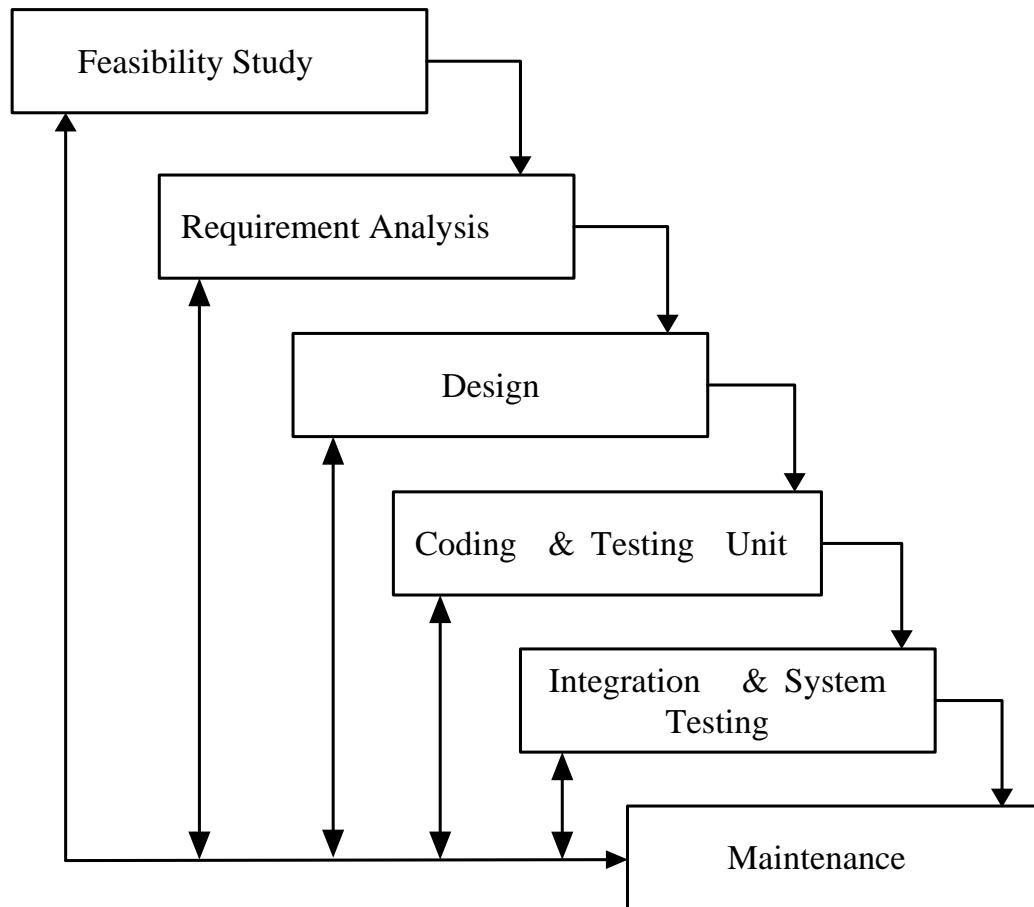
- **Report generation** – HR shall be able to generate a report in pdf format for each employee based on the information in the database.

Project management

- **Creating project team** - the project manager will able to create a project and come up with a project team.

- **Work breakdown structure** – the project manager will able to assign tasks to the project team.

2.2 Project Model



[Figure 1: Iterative Waterfall Model]

- This application is developed using Iterative model. Almost every other model is derived from the waterfall model.
- The phase of detecting errors is close to its points of introduction is known as face containment of errors.
- Incremental model is also referred as the successive version of waterfall model using incremental approach and evolutionary model.

- In this model, the system has broken down into several modules which can be incrementally implemented and delivered.
- First develop the core model and when customer evaluate the system then the initial product skeleton is redefined into increasing levels capacity by adding new functionalities in successive versions.

Advantages

- Each successive version performing more useful work than previous versions.
- The core modules get tested thoroughly, thereby reducing change of error in final product.
- The model is more flexible and less costly to change the scope and requirement.
- User gets a chance to experiment with partially developed software.
- This model helps finishing exact user requirements.
- Feedback providing at each increment is useful for determining the better final product.

2.3 Schedule Representation

Generalized project scheduling tools and technique can be applied with little modification to software projects.

Project evolution and review technique and critical paths method are two project scheduling method that can be applied to software development. Both techniques are driven by information already developed in earlier project planning activities:

- A decomposition of the product function.
- The selection of appropriate process model and task set.

- Estimate of effort.
- Decomposition of data.

[Table 1: Schedule Representation]

ACTIVITY	START DATE	FINISH DATE
Requirement Analysis		
System Analysis		
System Design		
System Coding		
Testing and Integration		

2.4 Feasibility Study:

2.4.1 Technical Feasibility:

- The proposed system will be developed in web bases completely and it is required to use web technologies appropriately. Technology to build the overall system is available.
- Currently available web technology – php, ASP.net, etc.
- Servers – Apache.
- DBMS – ORACLE, MySQL etc.

2.4.2 Economical Feasibility:

- Economic feasibility is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and

compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system.

2.4.3 Operational Feasibility:

- It is the measure of how well a proposed system solves the problems and takes advantages of the opportunities identified during the scope definition and problem analysis phases and how well it satisfies the system requirements identified in the requirement analysis phase.
- Potential users of the system are familiar with the website navigation and handling. Hence training up to necessary level would be easy.
- Existing internal network - The implementation of the system in the intranet can be easily managed, and the security issues needs to be addressed in network level or else in the application level. PHP supports object-oriented development approaches so that well defined design can maintain the smooth run and the flexibility of the proposed systems.
- Securing the data by providing various access levels for different user and the system. Users Authentication, Authorization and Audit-Procedures will be facilitated to the system administrators.
- Data retrieval is done easily.

CHAPTER-3

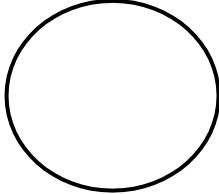
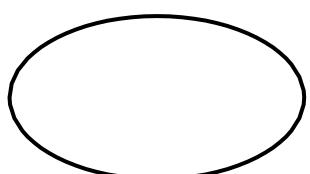
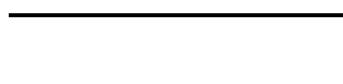
DESIGN

3.1 Data Flow Diagram

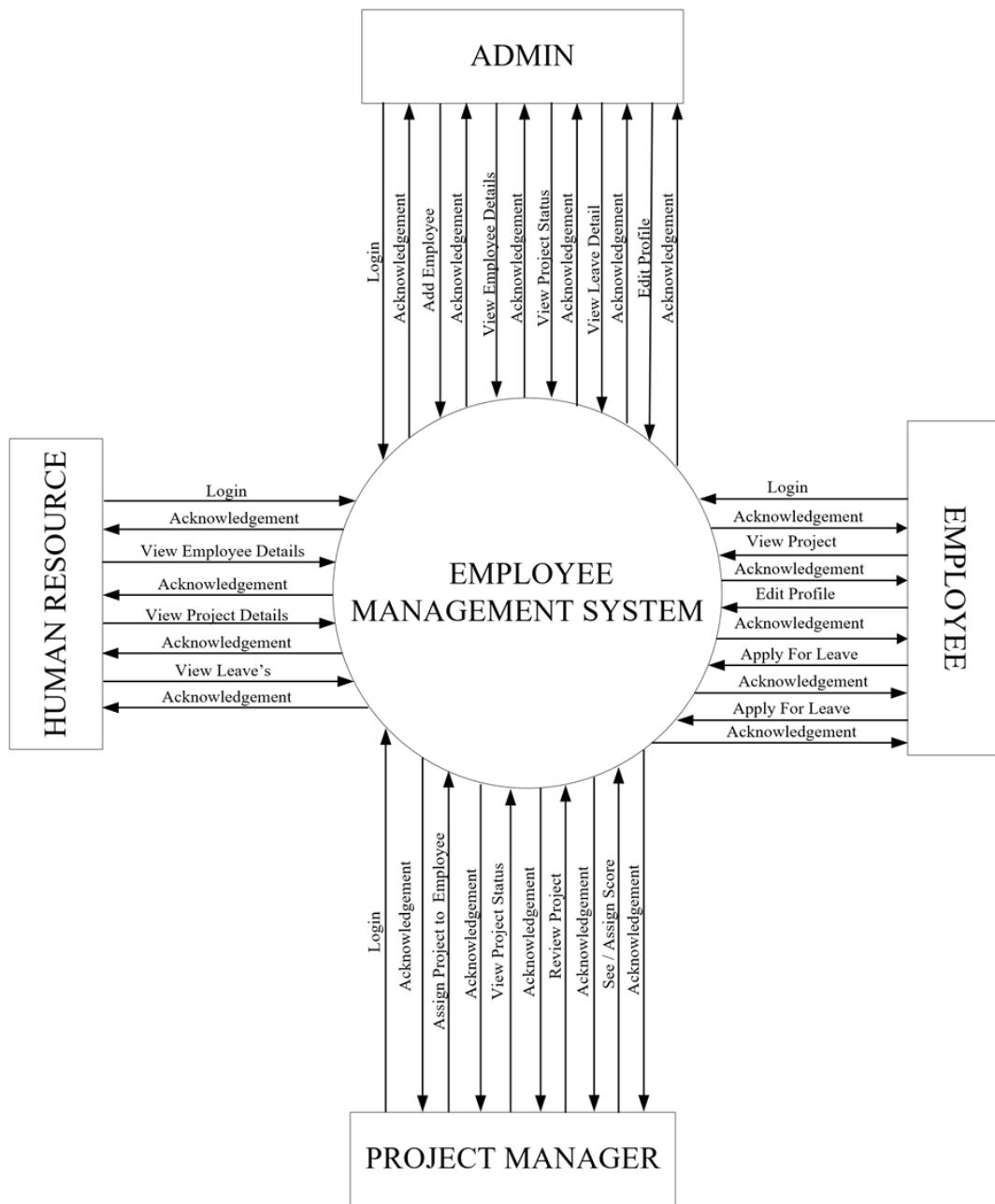
- DFD (data flow diagram) is also known as bubble chart or data flow graph.
- DFD's are very useful in understanding the system and can be effectively used during analysis. It shows flow of data through a system visually. The DFD is a hierarchical graphical model of a system the different processing activities or functions that the system performs and the data interchange among these functions.
- It views a system as a function that transforms the inputs into desired output.
- Each function is considered as a process that consumes some input data and produces some output data.
- Function model can be represented using DFD.
- DFD graphically representing the functions, or processes, which capture, manipulate, store, and distribute data between a system and its environment and between components of a system.
- The visual representation makes it a good communication tool between User and System designer.
- Structure of DFD allows starting from a broad overview and expand it to a hierarchy of detailed diagrams.

- DFD has often been used due to the following reasons:
 1. Logical information flow of the system.
 2. Determination of physical system construction requirements.
 3. Simplicity of notation.
 4. Establishment of manual and automated systems requirements.

[Table 2: Data Flow Diagram Symbols]

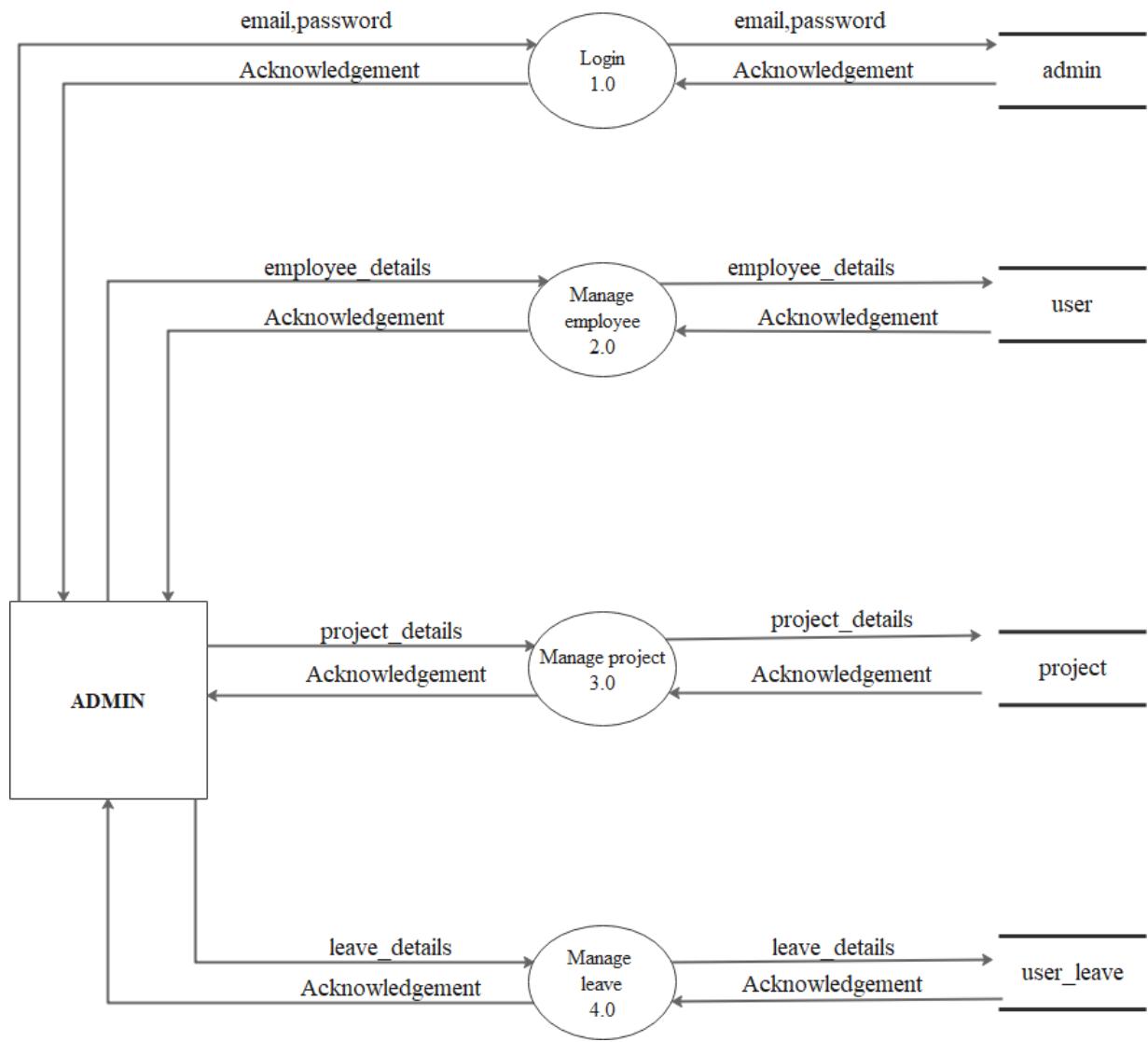
Symbols	Description
	Entity: Entities are external to the system which interacts by inputting the data.
	System: It shows the system name.
	Process: It shows the part of the system that transforms into outputs.
	Data Flow: It passes the data from one part to another.
	Data Store: Data store is represented by two parallel lines. It is generally logical file or database.

Level 0: context



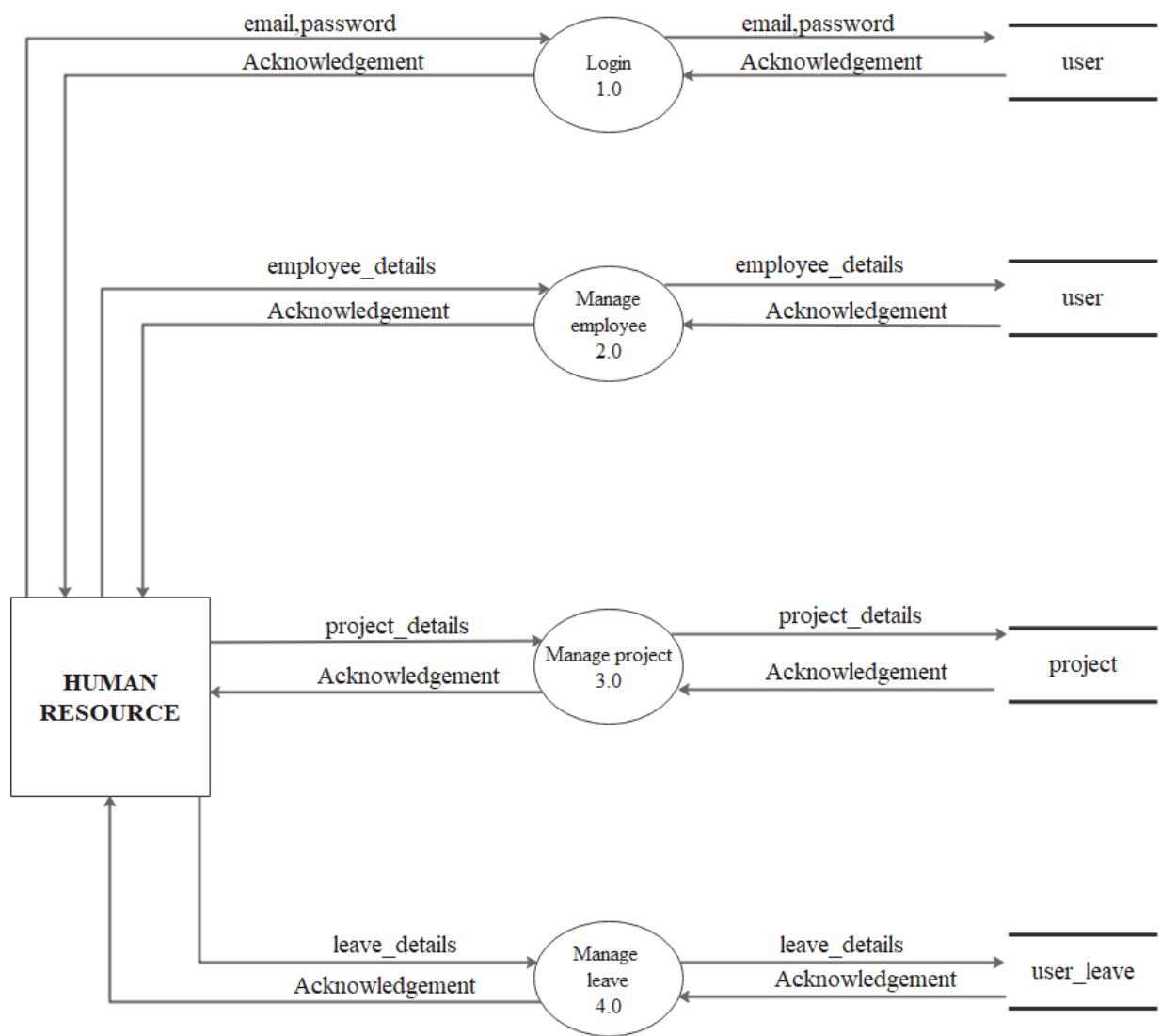
[Figure 2: Context level]

Level 1: Admin



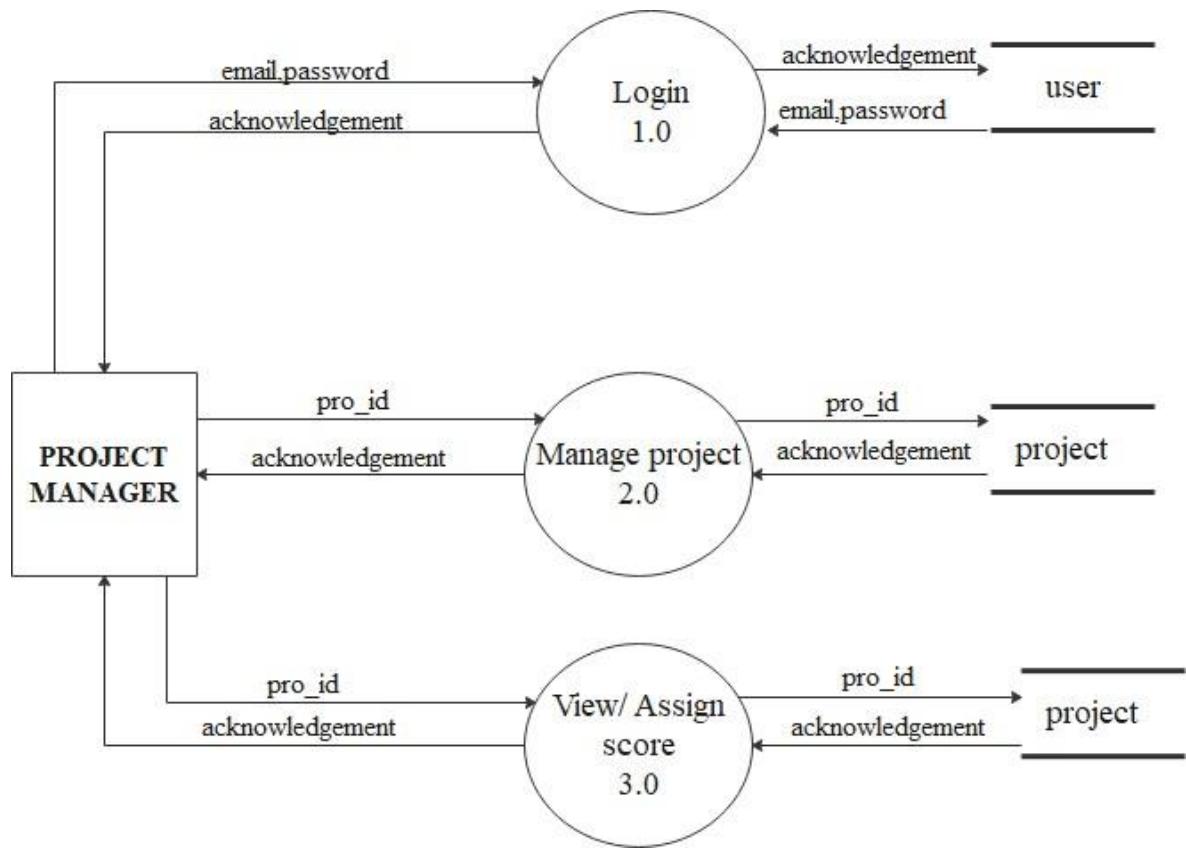
[Figure 3: DFD Level 1: Admin]

Level 1: HUMAN RESOURCE



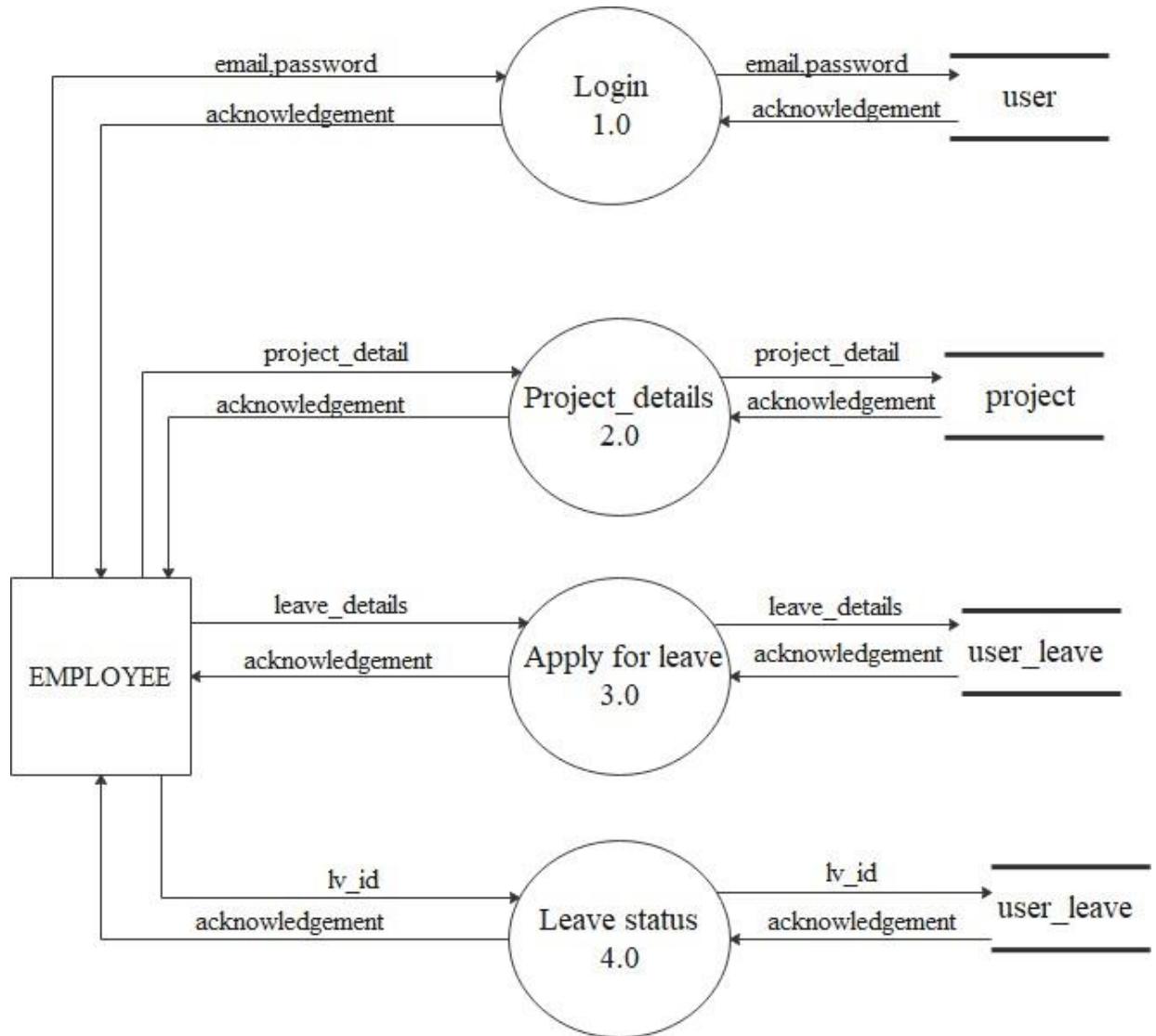
[Figure 4: DFD Level 1: Human Resource]

Level 1: Project Manager



[Figure 5: DFD Level 1: Project manager]

Level 1: EMPLOYEE

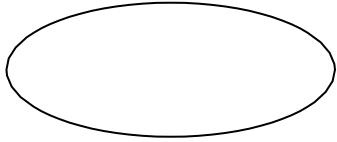
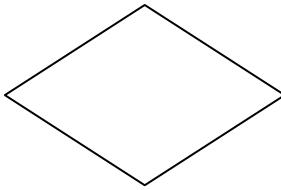
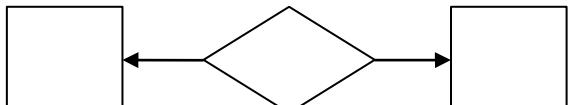
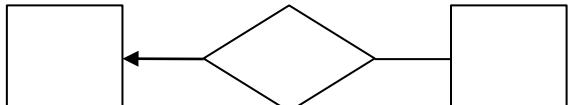
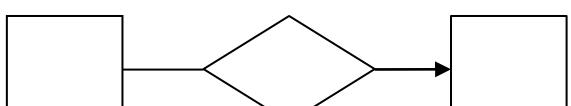


[Figure 6: DFD Level 1: Employee]

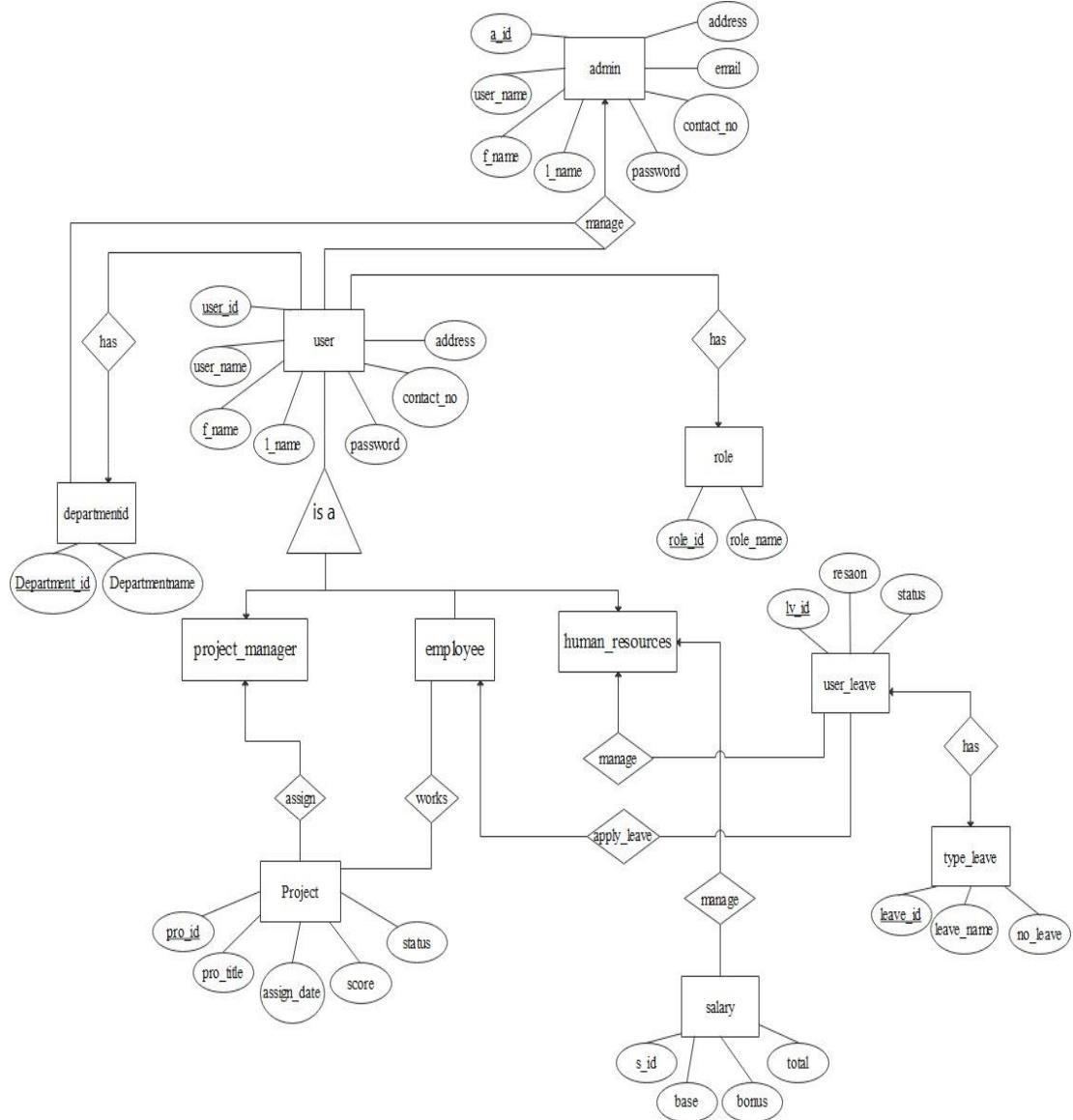
3.2 ER-Diagram

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research. Also known as ERDs or ER Models, they use a defined set of symbols such as rectangles, diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. They mirror grammatical structure, with entities as nouns and relationships as verbs.

[Table 3: ER-Diagram Symbols]

Symbols	Description
	Entity: Data object is real world entity or thing. It is represented by a rectangle shape. An entity is an object or concept about which you want to store information.
	Attributes: An attribute is property of characteristic of an entity. It is represented by oval shape.
	Relationship: Entity are connected each other via relations. Generally, relationships in binary because there are two entities are related to each other.
	Cardinality (One to One): An instance of entity A can relate to one instances of entity B.
	Cardinality (One to Many): An instance of entity A can relate to one or many instances of B but we can only relate one instance of A.
	Cardinality (Many to One): One or more instances of entity A can relate to one instances of B.
	Cardinality (Many to Many): One or more instances of entity A can relate to one more instance of entity B.

ER-Diagram:



[Figure 7: ER Diagram]

CHAPTER-4

SYSTEM MODELING

4.1 Database Dictionary

1. Table Name : admin

Primary Key: a_id

[Table 1: admin]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	a_id	Int(3)	Primary key	Admin's id
2	Fname	Varchar(15)	Not null	Admin's firstname
3	Lname	Varchar(15)	Not null	Admin's lastname
5	Password	Varchar(15)	Not null	Password of admin
6	contact_no	Bigint(13)	Unique key	Contact no of admin
7	Email	Varchar(30)	Unique key	Email of admin
8	Address	Varchar(100)	Not null	Address of admin
9	Dob	Date	Not null	Date of birth
10	Doj	Date	Not null	Date of join
11	a_pic	Varchar(30)	Not null	Picture of admin

2. Table Name: user

Primary Key: user_id

Foreign key: ROLE_ID, dep_Id

[Table 2: user]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	user_id	Int(3)	Primary key	Id of user
2	Username	Varchar(10)	Unique key	User's name
3	Firstname	Varchar(15)	Not null	User's first name
4	Lastname	Varchar(15)	Not null	User's last name
5	Password	Varchar(10)	Not null	User's password
6	contact_no	Bigint(13)	Unique key	User's contact_no
7	Email	Varchar(30)	Unique key	User's email
8	Address	Varchar(100)	Not null	User's address
9	DOB	Date	Not null	Dob of user
10	DOJ	Date	Not null	Doj of user
11	emp_pic	Varchar(100)	Not null	Picture of user
12	ROLE_ID	Int(3)	Foreign key	Role of user
13	dep_Id	Int(3)	Foreign key	Department of user
14	Salary	Int(10)	Not null	User's Salary
15	medical_lv	Int(10)	Not Null	User Medical Leave
16	casual_lv	Int(10)	Not Null	User Casual Leave
17	lwp_lv	Int(10)	Not Null	User lwp Leave

3. Table Name: role
Primary Key: role_id

[Table 3: role]

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	ROLE_ID	Int(3)	Primary key	Role id of user
2	role_name	Varchar(30)	Unique key	Role name of user

4. Table Name: departmentid
Primary Key: dep_id

[Table 4: departmentid]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	dep_id	Int(3)	Primary key	Id of department
2	dep_name	Varchar(30)	Unique key	Department name

- 5. Table Name:** project
Primary Key: pro_id
Foreign key: user_id

[Table 5: project]

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	pro_id	Int(3)	Primary key	Project id
2	user_id	Int(3)	Foreign key	User id
3	pro_title	Varchar(50)	Unique key	Project title
4	pro_desc	Varchar(50)	Not null	Project description
5	assign_date	Date	Not null	Assign date
6	DOS	Date	Not null	Date of start
7	due_date	Date	Not null	Due date
8	p_type	Int(1)	Not null	Project Type
9	G_type	Int(1)	Not null	Group Type
10	pro_work	Varchar(50)	Not null	Project Work
11	status	Varchar(10)	Not null	Project Status

- 6. Table Name :** user_leave
Primary Key: lv_id
Foreign key : user_id , lvtype_id

[Table 6: user_leave]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	lv_id	Int(3)	Primary key	User's Leave id
2	user_id	Int(3)	Foreign key	User's name
3	lvtype_id	Int(3)	Foreign key	Types of leaves
4	Dos	Date	Not null	Date of start
5	Doe	Date	Not null	Date of end
6	Reason	Varchar(100)	Not null	Reason for leave
7	Status	Varchar(20)	Not null	Status for leave

7. Table Name : type_leave

Primary Key: leave_id

[Table 7: type_leave]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	leave_id	Int(3)	Primary key	Leave id
2	leave_name	Varchar(20)	Not null	Leave name
3	no_leaves	Int(3)	Not null	Number of leaves

8. Table Name : Salary

Primary Key: salary_id

Foreign key : user_id , dep_id

[Table 8: user_leave]

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	salary_id	Int(3)	Primary key	User's salary id
2	user_id	Int(3)	Foreign key	User Id
3	dep_id	Int(3)	Foreign key	Department Id
4	Base Salary	Int(6)	Not null	Base Salary Of Employee
5	Bonus	Int(5)	Not null	Salary Bonus
6	Total	Int(10)	Not null	Total

CHAPTER-5 **TECHNICAL SPECIFICATION**

5.1 Hardware Specification:

- **5.1.1 Ram:** 4GB
- **5.1.2 Hard drive Storage Needed:** 200GB
- **5.1.3 Other Hardware Requirements:** None

5.2 Platform:

- **5.2.1 Supported Operating System:** Windows XP and above LINUX and MacOS is compatible.
- **5.2.2 Programmer Server:** Wamp Apache Server 3.1.9 64-bit and 2.2e.

5.3 Framework:

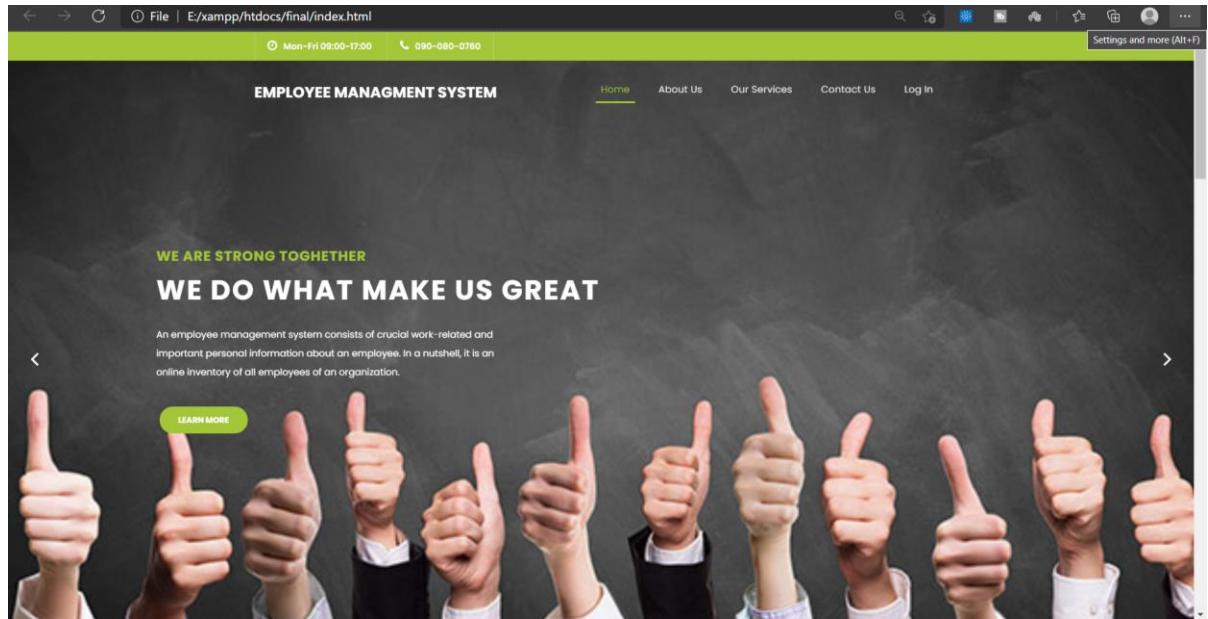
- **5.3.1 Mark-up Language:** HTML4 and HTML5.
- **5.3.2 Programming Language:** PHP 5.3

5.4 Technical Support:

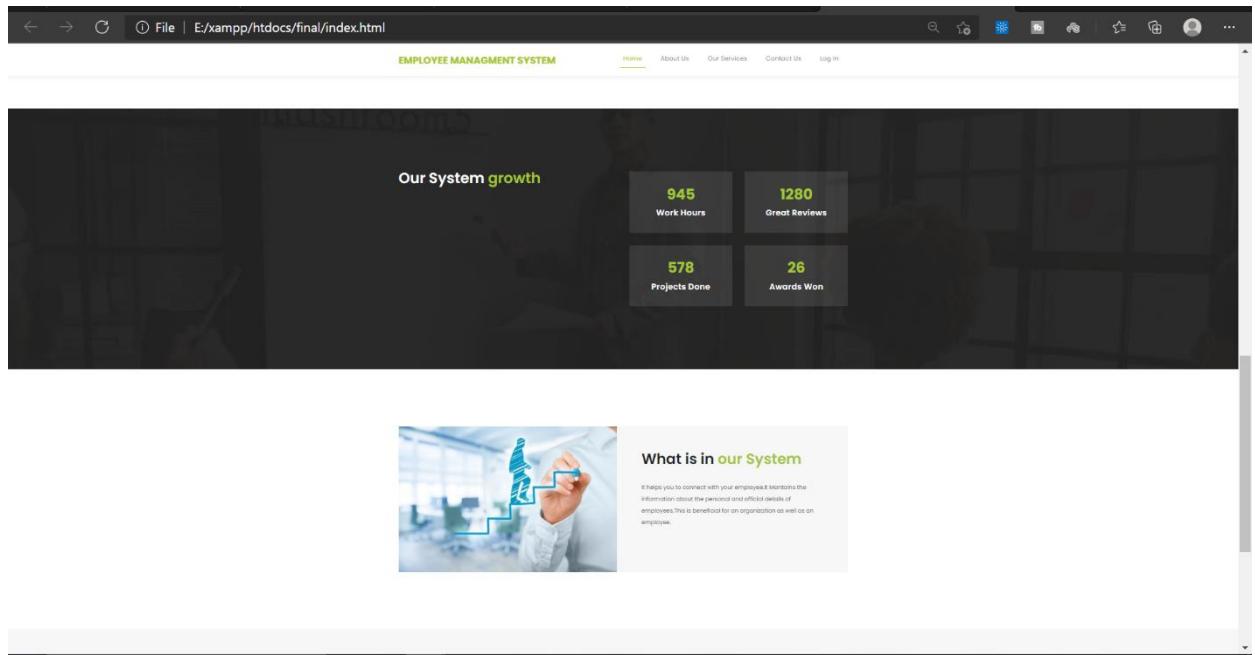
- **5.4.1 Front-End:** PHP 5.3v
- **5.4.2 Back-End:** MySQL5.5.24
- **IDE Tools:** Sublime Text3 and Marco Media Dreamweaver.
- **UML Tools:** Microsoft Office Visio 2007
- **SRS Tools:** Microsoft Word 2016.

5.5 DESIGN LAYOUT

Homepage:-



[Figure 8: Homepage Top]



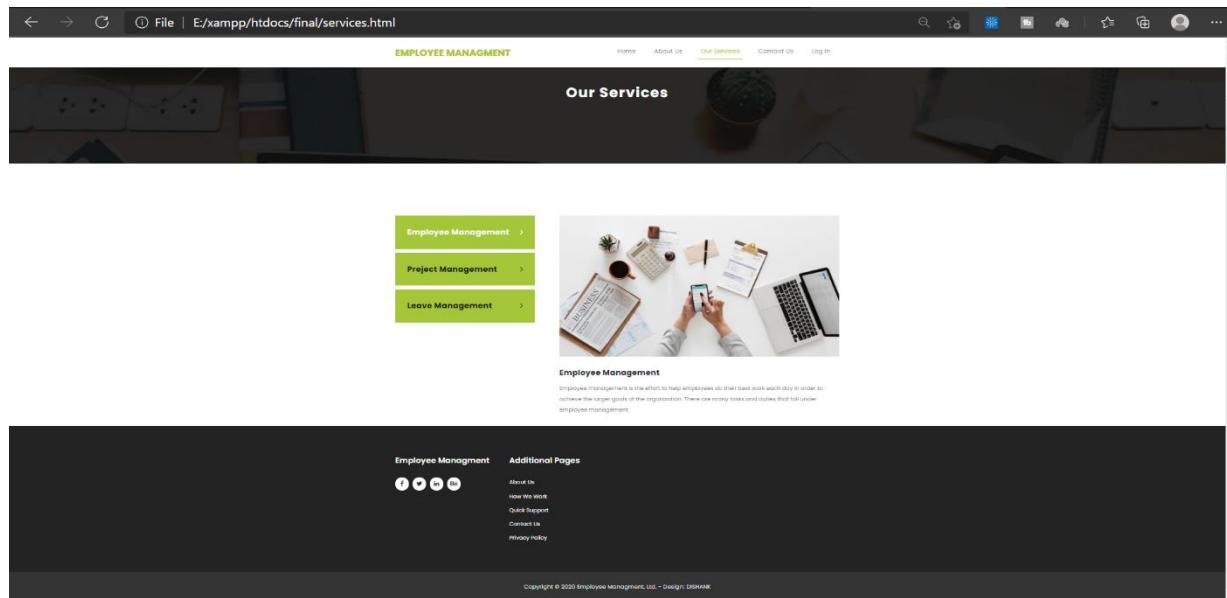
[Figure : Homepage bottom]

The screenshot shows a web browser window with the URL `E:/xampp/htdocs/final/about.html`. The page title is "EMPLOYEE MANAGEMENT". The navigation menu includes "Home", "About Us" (which is underlined in green), "Our Services", "Contact Us", and "Log In". The main content area has a dark background with a faint image of office equipment like a laptop, a smartphone, and a small potted plant. The word "About Us" is centered in white. Below it, there's a section titled "Employee Management System" with a brief description: "An Employee Management system is a platform where all work-related as well as important personal details of an employee is stored and managed in a secure way." To the right of the text is a blue illustration of three stylized human figures standing among large interlocking gears against a city skyline.

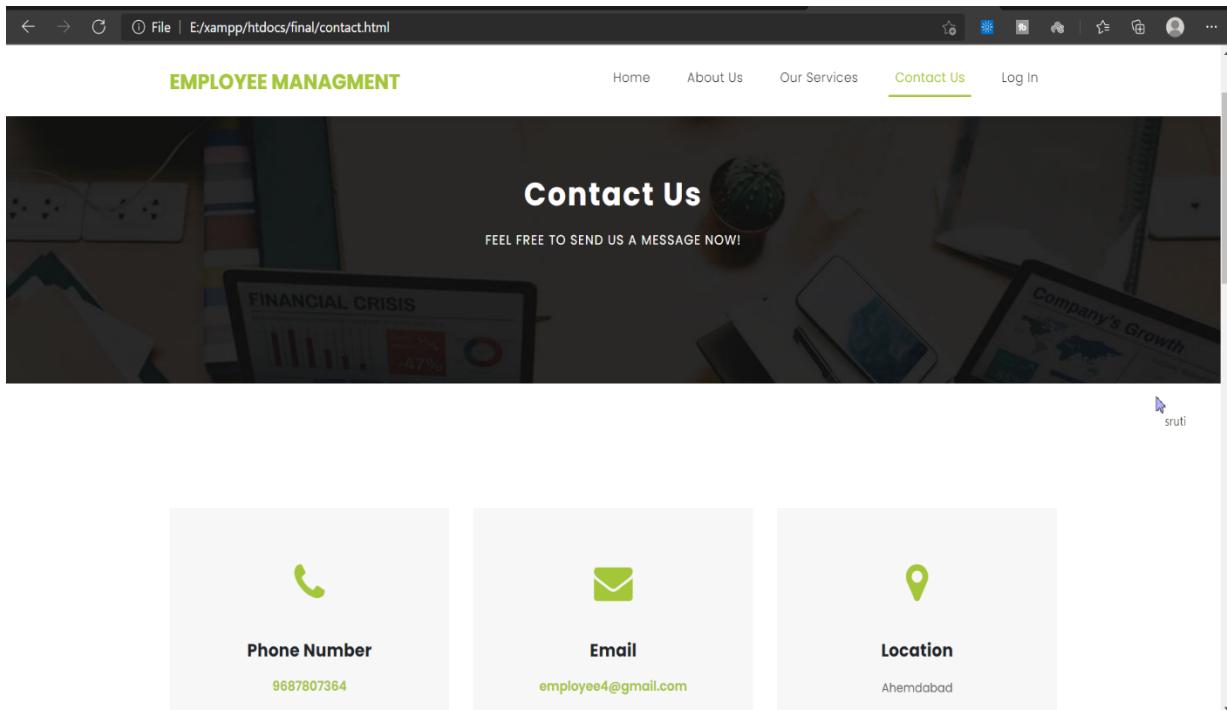
[Figure : Aboutus top]

The screenshot shows the same web browser window with the URL `E:/xampp/htdocs/final/about.html`. The page title is "EMPLOYEE MANAGEMENT". The navigation menu includes "Home", "About Us" (underlined in green), "Our Services", "Contact Us", and "Log In". The main content area features a section titled "Our team members" with three photographs of individuals: Teli Sumit, Prajapti Shruti, and Patel Jugal. Each photo is accompanied by the person's name and their role: Admin, Human Resource, and Project Manager respectively. At the bottom of the page, there's a footer with links to "Employee Management System", "Additional Pages" (About Us, How We Work, Quick Support, Contact Us, Privacy Policy), and social media icons for Facebook, Twitter, LinkedIn, and Be.

[Figure : Aboutus bottom]

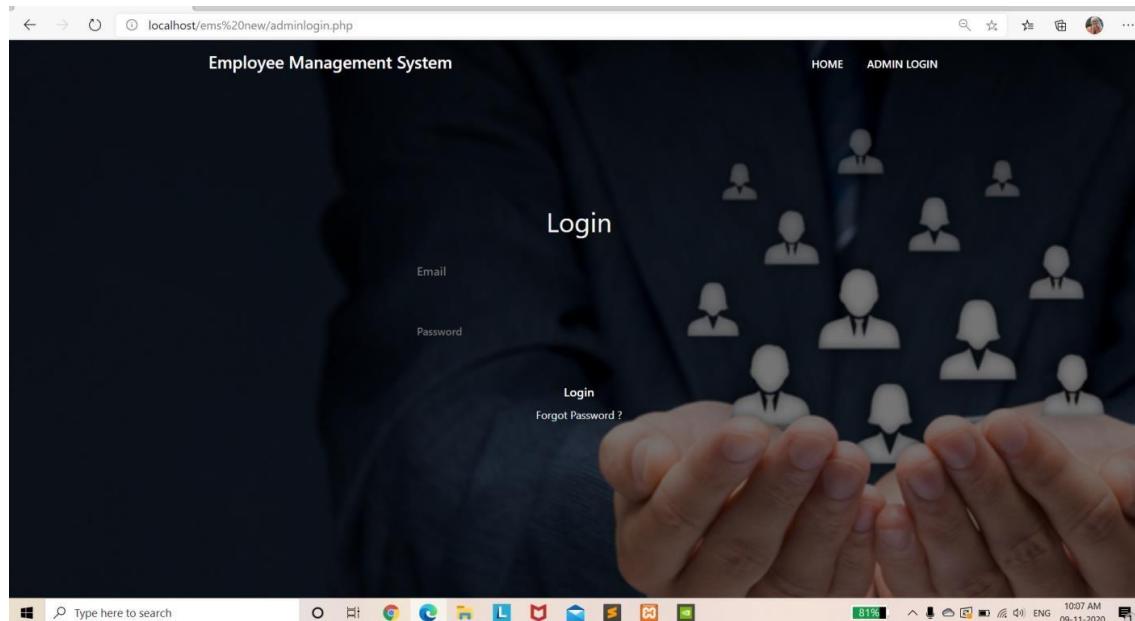


[Figure : Services]

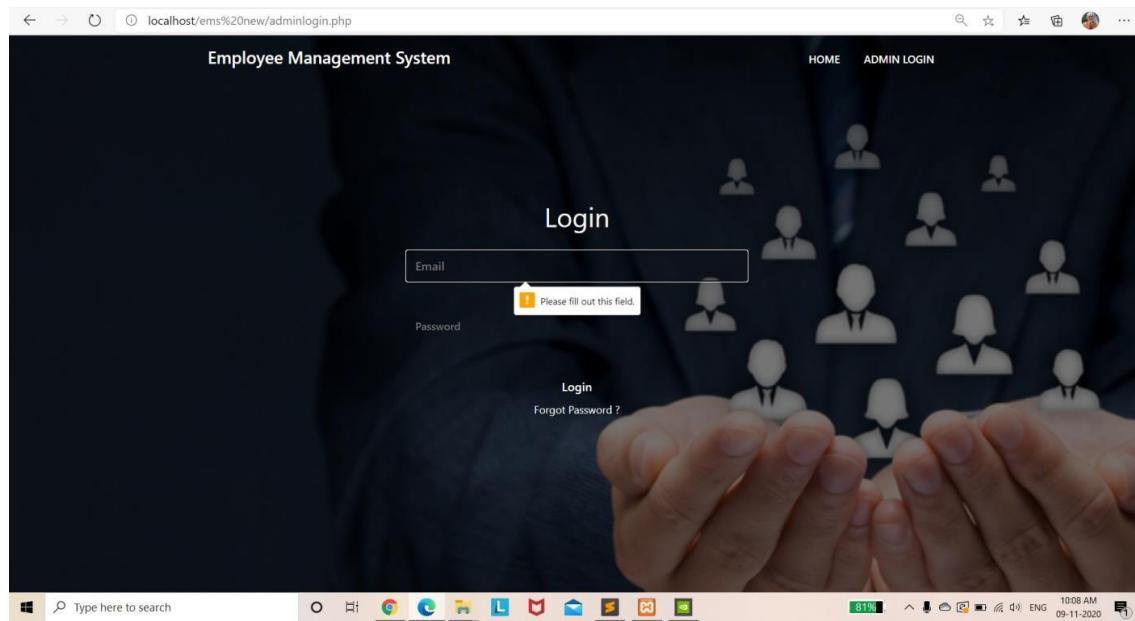


[Figure : Contact Us]

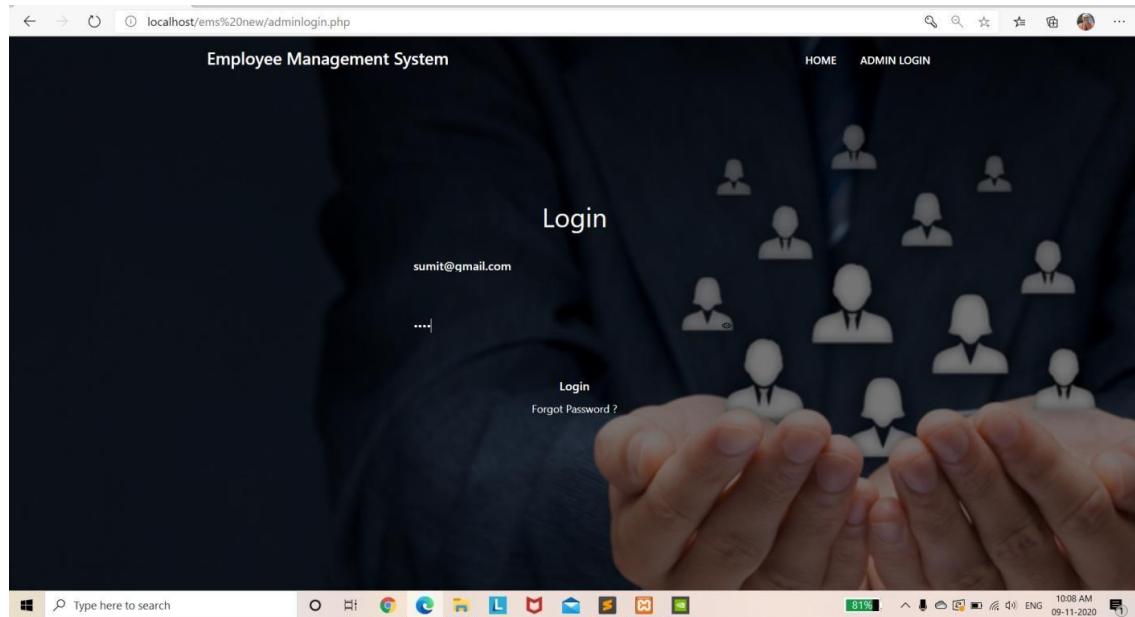
ADMIN:-



[Figure : login page]



[Figure : login page validation]



[Figure : login page with detail]

A screenshot of the Employee Management System dashboard. On the left, a sidebar titled 'ADMIN' lists various management functions: Home, Add Employee, View Employee, View Department, Add Department, View Project, Change Password, Profile, Employee Report, Project Report, and Logout. The main area is titled 'DASHBOARD' and contains six data cards: 'TOTAL EMPLOYEE' (8), 'TOTAL PROJECT MANAGER' (1), 'TOTAL DEPARTMENT' (6), 'TOTAL PROJECTS' (6), 'COMPLETED PROJECT' (1), and 'PENDING PROJECT' (4). Each card includes a small chart icon and a '>>' link. The top right corner shows the date and time ('Thu Apr 15 2021 15:26:04 GMT+0530 (India Standard Time)') and the user's name ('Sumit'). The bottom right corner shows the acronym 'EMS'.

[Figure : home page]

[Figure : add employee]

[Figure : add employee validation]

localhost/final/admin/adminadddemp.php

Add Employee

Sumit		
Teli		
SumitTeli		
180330307113.sumit.teli@gmail.com		

31-12-2003	16-04-2021	Male
6353166674		
Accounting and Finance		
I-11 Swapna App , Near Ghosa society , ahmedabad 380059		
EMPLOYEE		
10000		
Choose File DSC_0813.JPG		
<input type="button" value="Submit"/>		

[Figure : add employee with detail]

localhost/final/admin/adminviewemp.php

ADMIN

EMPLOYEES

ID	Username	First Name	Last Name	Role	Contact No	Email	Address	View Employee
1	sumit	sumit	teli	HR	6353166673	sumit@gmail.com	I/11 Swapna Apt opp.Jivandeep Raw House,Thaltej	View
2	Jugal	jugal	patel	PM	7990041716	jugal@gmail.com	C/12 Payal flats,opp Siddharth flats,vasca	View
3	Shruti	shruti	prajapati	EMPLOYEE	9409044572	shruti@gmail.com	Rajendra park,odhav	View
4	Dishank	dishank	munshi	HR	9687807364	dishank@gmail.com	Siddhivinayak society ,Maningar	View
6	himanshu	himanshu	sharma	EMPLOYEE	9186039222	himanshu@gmail.com	29, Hina Chowk, Panaji - 440216	View
7	Ramesh	Rohit	Sharma	EMPLOYEE	9824037363	rohit@gmail.com	67, Falguni Heights, UmeshGari Jataipur - 464199	View
8	Radhika	Radhika	Mohanty	EMPLOYEE	9573116394	RadhikaMohanty@gmail.com	14, Harbhajan Heights, RathiGunj Mysore - 576667	View
10	Nishita C	Nishita	Chana	EMPLOYEE	6564556479	NishitaChana@gmail.com	37, Pirzada Society, Mansarovar, Guwahati - 359087	View
21	MohitShia1	Mohit	Shah	EMPLOYEE	6353166674	mohit@gmail.com	Bla And Bla And BlaBla a	View

[Figure : View Employee]

The screenshot shows a web application interface titled "VIEW EMPLOYEE". On the left, a sidebar menu under "ADMIN" includes options like Home, Add Employee, View Employee, View Department, Add Department, View Project, Change Password, Profile, Employee Report, Project Report, and Logout. The main content area is titled "View Employee" and displays the following information for an employee:

Company	First Name	Last Name
EMS	shruti	prajapati

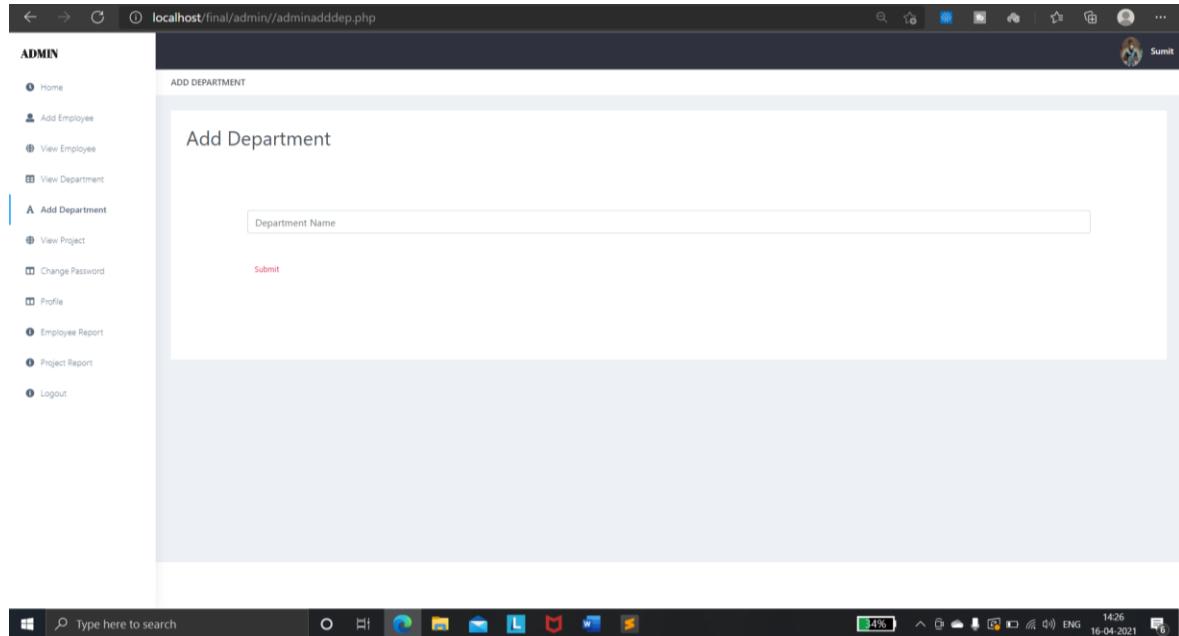
Below this, there are fields for Email (shruti@gmail.com), Contact no (9409044572), Address (Rajendra park.odhav), Date Of Birth (2003-05-23), Date Of Join (2021-01-01), and Role (EMPLOYEE). To the right of the form is a small profile picture of a woman.

[Figure : View Specific Employee]

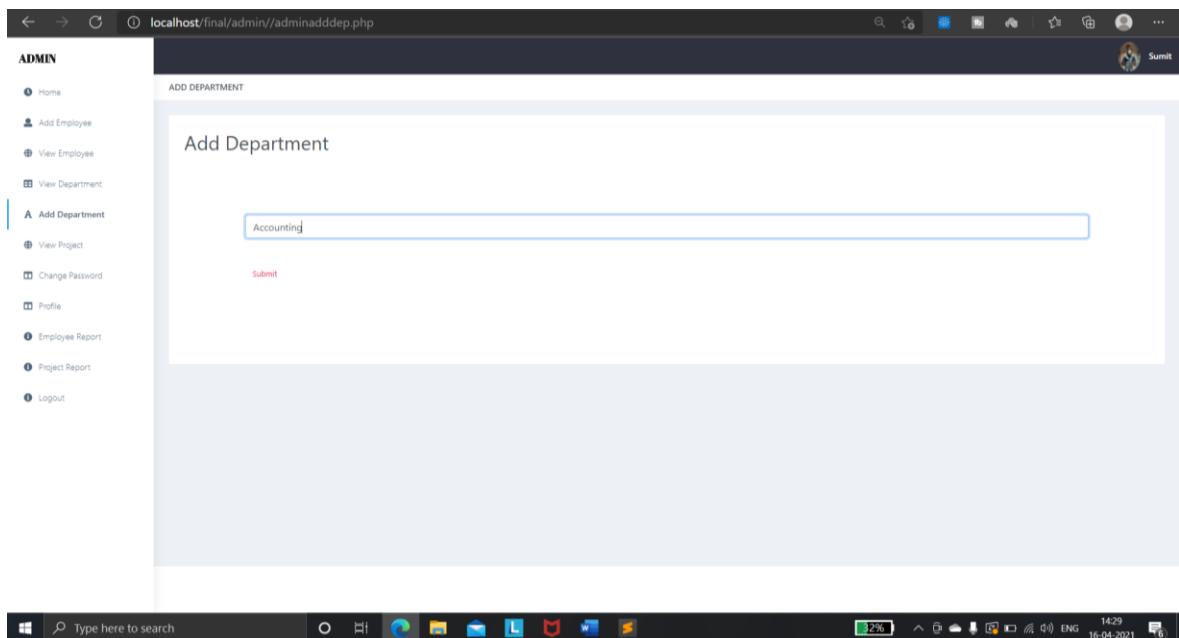
The screenshot shows a web application interface titled "DEPARTMENT". On the left, a sidebar menu under "ADMIN" includes options like Home, Add Employee, View Employee, View Department (which is selected and highlighted in blue), Add Department, View Project, Change Password, Profile, Employee Report, Project Report, and Logout. The main content area displays a table of department data:

Department Id	Department Name	Action
1	Marketing	Delete
2	Purchasing	Delete
3	Production	Delete
4	Design	Delete
5	Research and Development	Delete
6	Accounting and Finance	Delete

[Figure : View Department]



[Figure : Add Department]



[Figure : Add Department with Details]

The screenshot shows a web application interface titled "ADMIN" at the top left. On the left side, there is a sidebar with various menu items: Home, Add Employee, View Employee, View Department, Add Department, View Project (which is currently selected and highlighted with a blue border), Change Password, Profile, Employee Report, Project Report, and Logout. The main content area is titled "VIEW PROJECT". It contains a table with the following data:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
3	CMS	Complaint Management System	3	2021-01-01	2021-01-05	2021-01-10	View work	Pending
28	EMS2	EMS2 EMS2 Ems2 Ems2 EMS2 EMS2 Ems2 Ems2	3	2021-03-16	2021-03-14	2021-03-17	View work	pending
29	EMS4	EMS2 EMS2 Ems2 Ems2 EMS2 EMS2 Ems2 Ems2	3	2021-03-27	2021-03-27	2021-03-28	View work	pending
34	Employee Leave	EMS2 EMS2 Ems2 Ems2 EMS2 EMS2 Ems2 Ems2	21	2021-04-12	2021-04-12	2021-04-12	View work	pending

At the bottom of the screen, there is a Windows taskbar with icons for search, file explorer, browser, and other system functions. The date and time are shown as 14:29 16-04-2021.

[Figure : View Project]

The screenshot shows a web application interface titled "ADMIN" at the top left. On the left side, there is a sidebar with various menu items: Home, Add Employee, View Employee, View Department, Add Department, View Project (which is currently selected and highlighted with a blue border), Change Password, Profile, Employee Report, Project Report, and Logout. The main content area is titled "VIEW PROJECT". It contains a table with the following data:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
3	CMS	Complaint Management System	3	2021-01-01	2021-01-05	2021-01-10	View work	Pending

At the bottom of the screen, there is a Windows taskbar with icons for search, file explorer, browser, and other system functions. The date and time are shown as 14:30 16-04-2021.

[Figure : View Group Project]

localhost/final/admin//adminviewsproject.php

ADMIN

VIEW PROJECT

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
2	Student portal	About student	3	2021-01-01	2021-01-05	2021-01-10	View work	completed

Type here to search 14:30 16-04-2021

[Figure : View Submitted Project]

localhost/final/admin//adminchangeppass.php

ADMIN

CHANGE PASSWORD

Change Password

Old Password

New Password

Confirm Password

Change Password

Type here to search 14:30 16-04-2021

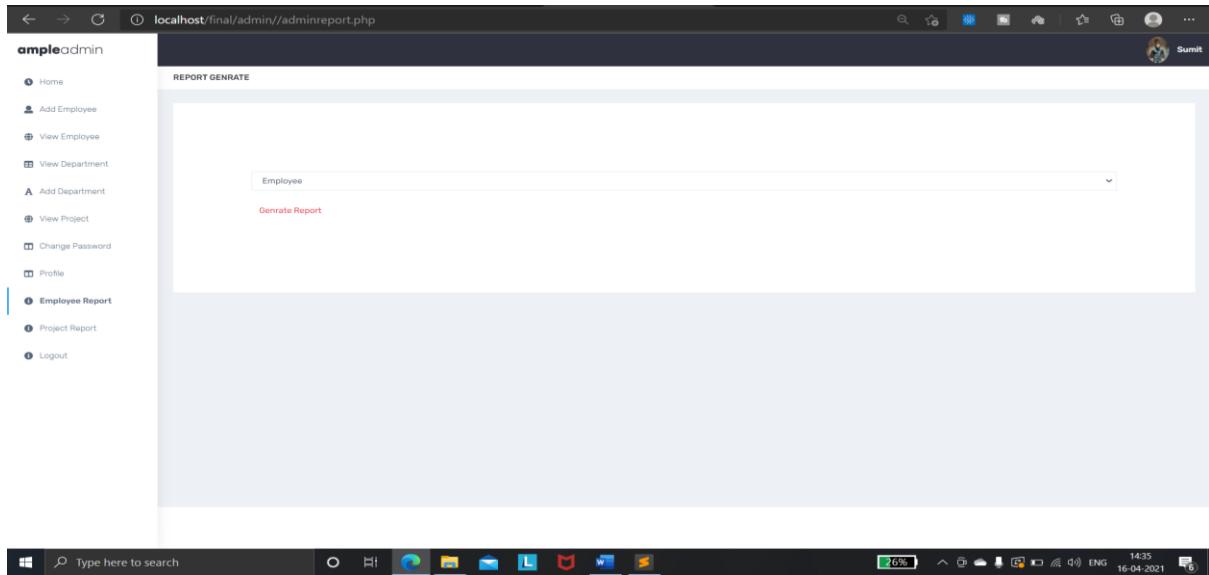
[Figure : Change Password]



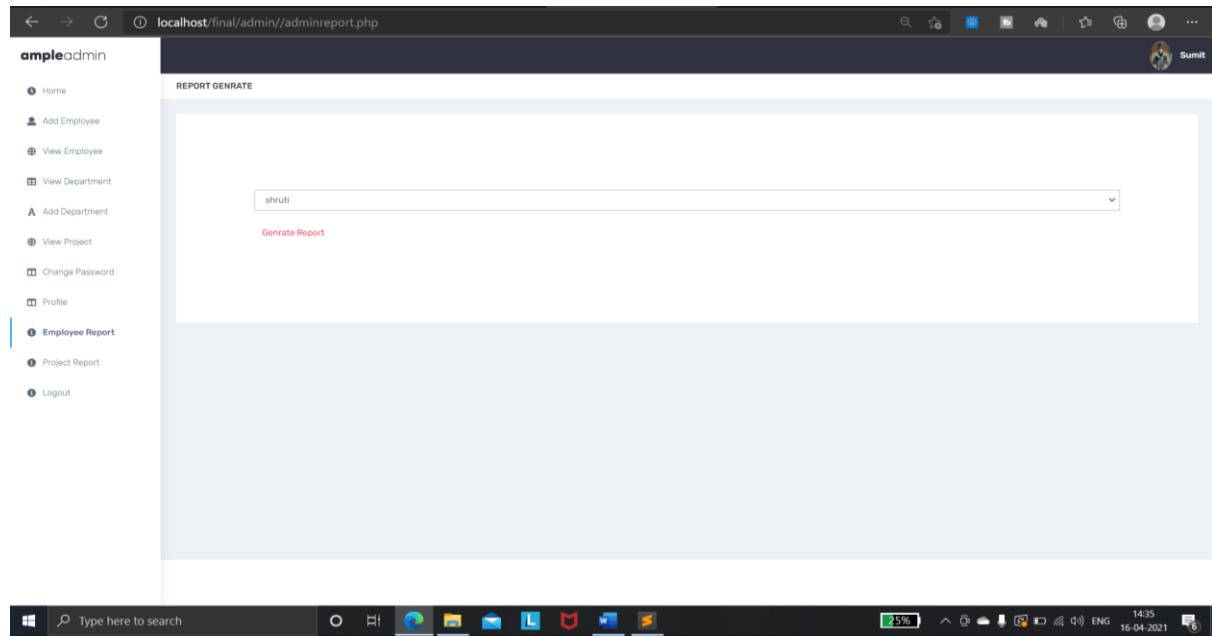
[Figure : Change Password with Validation]

A screenshot of a web browser window. The address bar shows the URL "localhost/final/admin//adminprofile.php". The page title is "ADMIN". On the left, there is a sidebar with various menu items: Home, Add Employee, View Employee, View Department, Add Department, View Project, Change Password, Profile (which is selected and highlighted in blue), Employee Report, Project Report, and Logout. The main content area is titled "PROFILE". It contains a "Profile" section with fields for Company (disabled), First Name (Sumit), Last Name (Tell), Email (sumit@gmail.com), Contact no (123456789), Address (I/11 Swapna aptt, opp Jivandeep Raw House, Thaltej), Date Of Birth (2003-06-27), Date Of Join (2021-01-01), and Role (Admin). There is also a placeholder for a profile picture with a "Choose File" button and a preview area showing a photo of a person. At the bottom right, there are buttons for "Update Profile" and "Admin Id :-1 Sumit". The taskbar at the bottom shows the Windows Start button, a search bar, and several pinned application icons. The system tray shows battery level (6%), signal strength, and the date/time (14:35, 16-04-2021).

[Figure : View Profile]



[Figure : Employee Report Generation]



[Figure : Employee Report]

Employee

Company	First Name	Last Name
EMS	shruti	prajapati
Email	Contact no	
shruti@gmail.com	9409044572	
Address		
Rajendra park,lothav		
Date Of Birth	Date Of Join	Role
2003-09-23	2021-01-01	EMPLOYEE

WORKING DETAILS

TOTAL PROJECT		COMPLETED PROJECTS		PENDING PROJECTS	
5	>>	1	>>	3	>>
COMPLETED PROJECTS					
No	Title	Description	Employee ID	Assign Date	Date Of Start
2	Student portal	About student	3	2021-01-01	2021-01-05
				Due Date	Status
				2021-01-10	completed

PENDING PROJECTS						
No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date
3	CMS	Complaint Management System	3	2021-01-01	2021-01-05	2021-01-10
28	EMS2	EMS2 EMS2 EMS2 EMS2 EMS2 EMS2	3	2021-03-16	2021-03-14	2021-03-17
				Due Date	Status	
				2021-03-17	pending	

Windows Taskbar: Type here to search, File Explorer, Mail, Edge, LinkedIn, Microsoft Store, Task View, Taskbar icons, Battery 25%, ENG, 14:39, 16-04-2021.

[Figure : Employee Report Display]

DASHBOARD

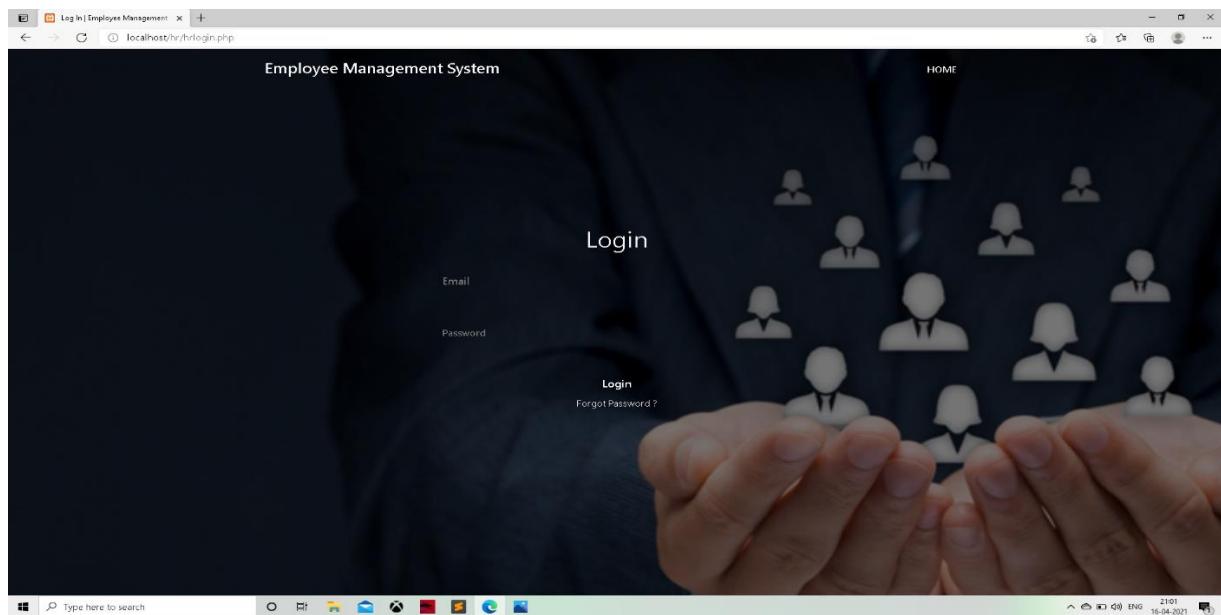
TOTAL PROJECT		COMPLETED PROJECTS		PENDING PROJECTS	
6	>>	1	>>	4	>>
COMPLETED PROJECTS					
No	Title	Description	Employee ID	Assign Date	Date Of Start
2	Student portal	About student	3	2021-01-01	2021-01-05
				Due Date	Status
				2021-01-10	completed

PENDING PROJECTS						
No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date
3	CMS	Complaint Management System	3	2021-01-01	2021-01-05	2021-01-10
28	EMS2	EMS2 EMS2 EMS2 EMS2 EMS2 EMS2	3	2021-03-16	2021-03-14	2021-03-17
29	EMS4	EMS4 EMS4 EMS4 EMS4 EMS4 EMS4	3	2021-05-27	2021-05-27	2021-05-28
34	Employee Leave	EMS2 EMS2 EMS2 EMS2 EMS2 EMS2	21	2021-04-12	2021-04-12	2021-04-12

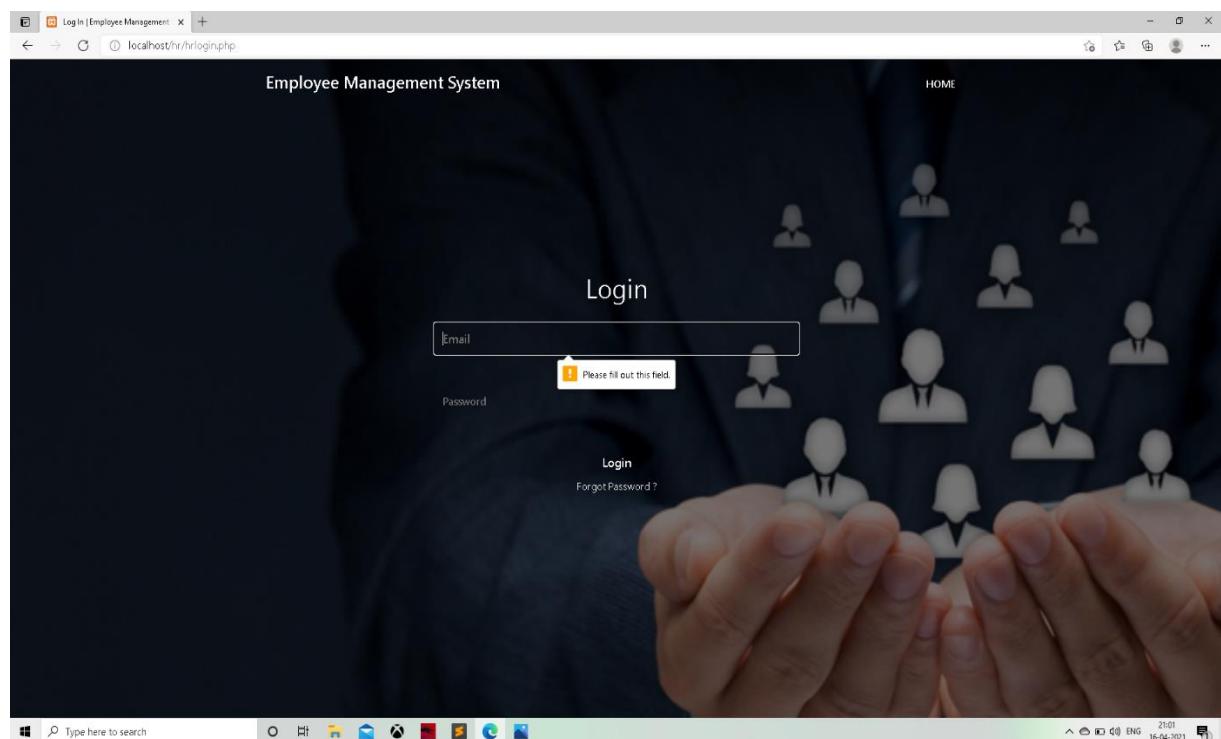
Windows Taskbar: Type here to search, File Explorer, Mail, Edge, LinkedIn, Microsoft Store, Task View, Taskbar icons, Battery 5%, ENG, 14:39, 16-04-2021.

[Figure : View Project Report]

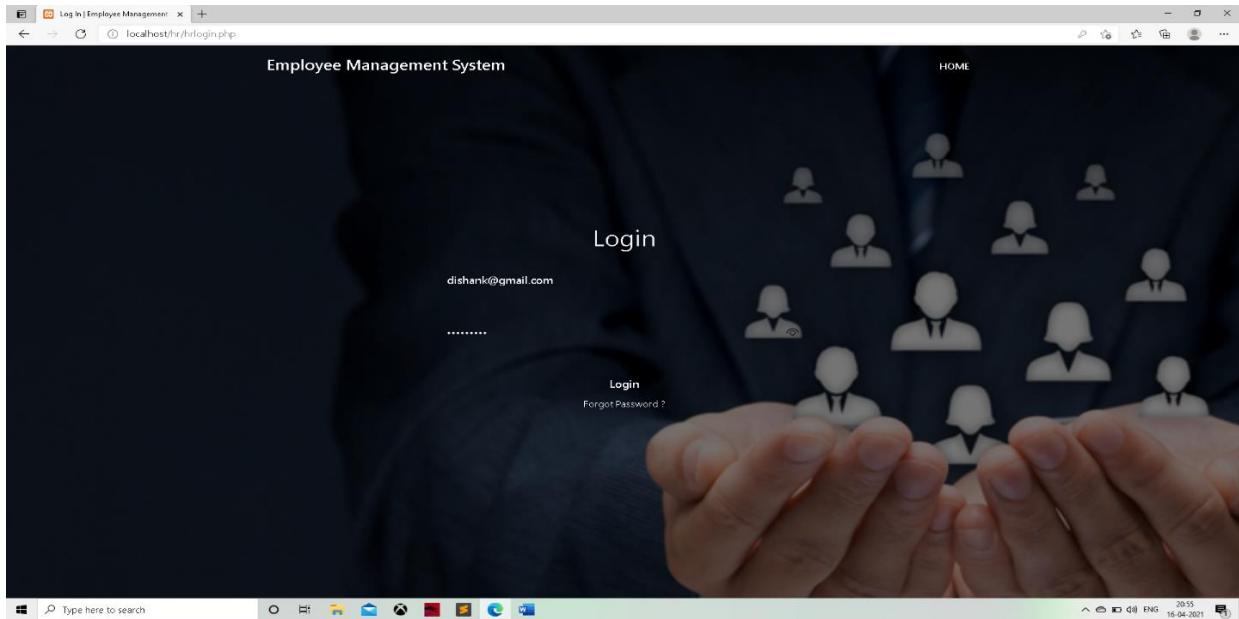
Human Resource:-



[Figure : login page]



[Figure : login page validation]



[Figure : login page with detail]

A screenshot of a web browser showing the 'HR' home page. The title bar says 'Home | localhost/hr/hrhomepage.php'. The top navigation bar includes links for Home, Add Employee, View Employee, View Department, Add Department, View Project, Manage Leave, Change Password, Profile, Employee Report, Project Report, and Logout. The dashboard displays several statistics: TOTAL EMPLOYEE (4), TOTAL PROJECT MANAGER (1), TOTAL DEPARTMENT (6), TOTAL PROJECTS (3), COMPLETED PROJECT (1), and PENDING PROJECT (1). The bottom right corner shows 'EMS'.

[Figure : home page]

A screenshot of a web browser window titled "Add Employee" at the URL "localhost/hr/hraddemp.php". The page has a dark header bar with the text "ADD EMPLOYEE" and a sub-header "Add Employee". On the left, there is a sidebar with a "HR" logo and a list of navigation items: Home, Add Employee (which is selected and highlighted in blue), View Employee, View Department, Add Department, View Project, Manage Leave, Change Password, Profile, Employee Report, Project Report, and Logout. The main content area contains several input fields: First Name, Last Name, Username, Email, Enter password, Date of Birth, Date of Join, GENDER dropdown, Contact Number, Department, Address, Role Id, and Salary. Below these fields is a file upload input labeled "Choose File" with the placeholder "No file chosen". At the bottom right of the form is a red "Submit" button.

[Figure : add employee]

A screenshot of a web browser window titled "Add Employee" at the URL "localhost/hr/hraddemp.php". The interface is identical to the previous figure, but the "First Name" input field is now highlighted with a red border, indicating it is required. A yellow validation message box with the text "Please fill out this field." is positioned above the "Last Name" field. All other fields remain empty or show their initial state.

[Figure : add employee validation]

Add Employee

ADD EMPLOYEE

daksh

parmar

daksh

daksh@gmail.com

15-05-1994

24-06-2015

Male

Research and Development

ahmedabad maninagar

EMPLOYEE

10000

Choose file | no file chosen

Submit

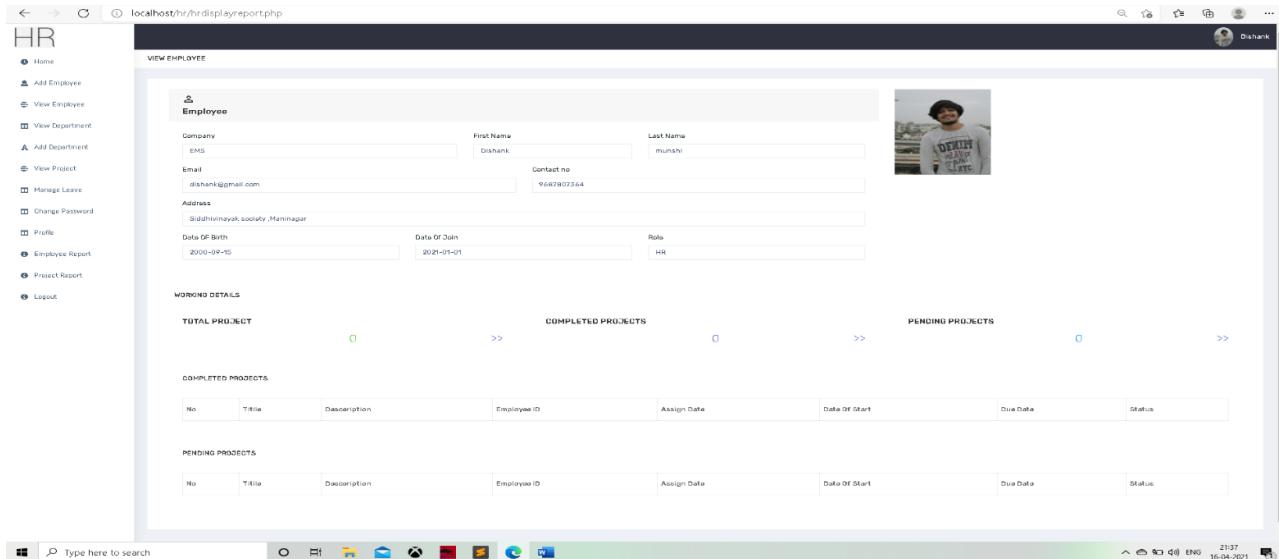
[Figure : add employee with detail]

VIEW EMPLOYEE

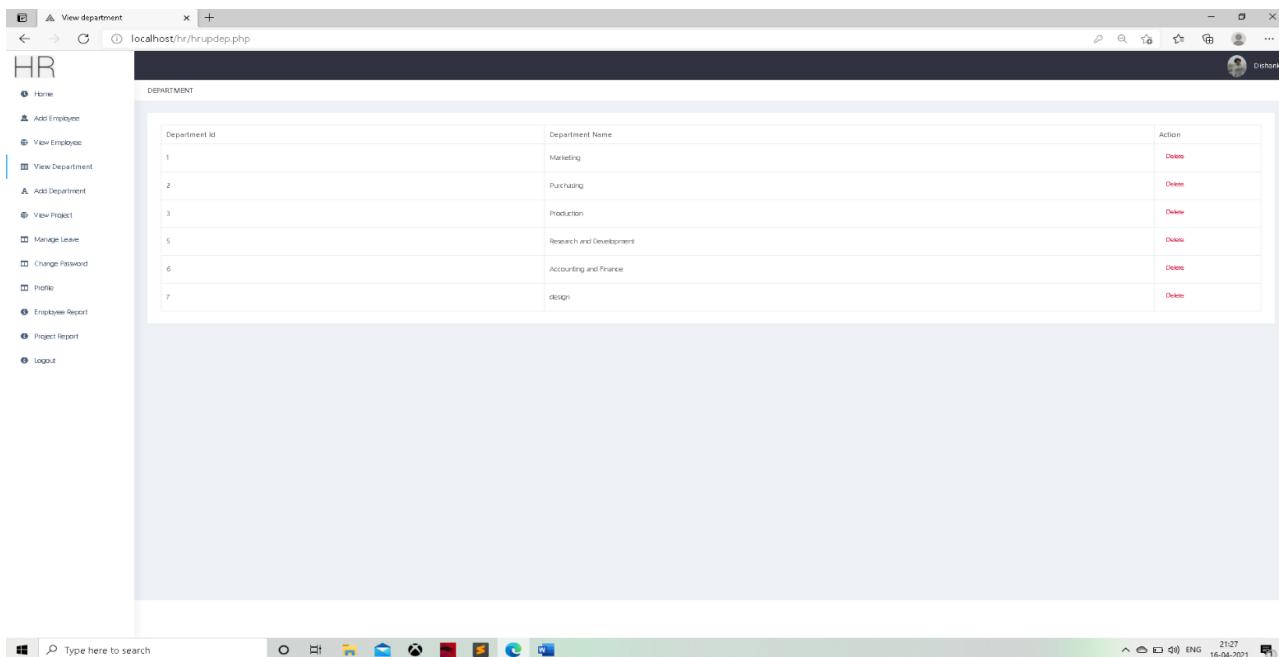
EMPLOYEES

ID	Username	First Name	Last Name	Role	Contact No	Email	Address	View Employee
1	sumit	sumit	teli	HR	6353166673	sumit@gmail.com	V11 Swapna Appt opp.Jivandeep Raw House,Thaltej	View
2	Jugal	Jugal	Patel	PM	7890041716	Jugal@gmail.com	C/12 Payal flats,opp Siddharth flats,yana	View
3	Shruti	Shruti	Prajapati	EMPLOYEE	9409044572	shruti@gmail.com	Rajendra park,odhav	View
4	Dishank	Dishank	Munshi	HR	9887807364	dishank@gmail.com	Siddhivinayak society, Maninagar	View

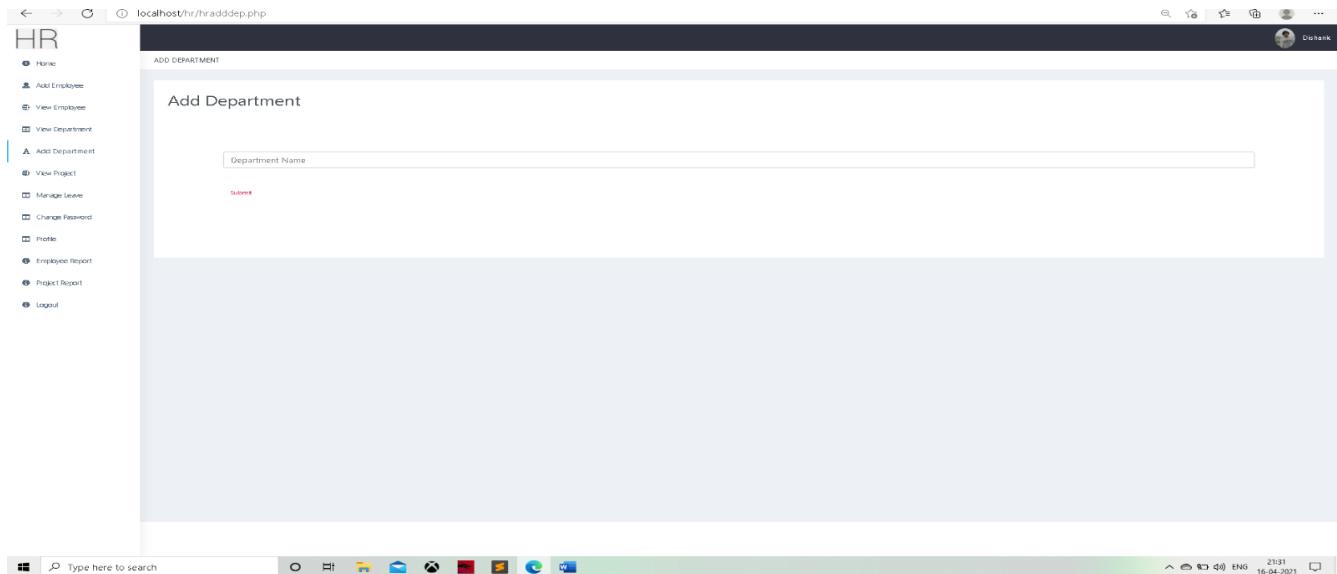
[Figure : View Employee]



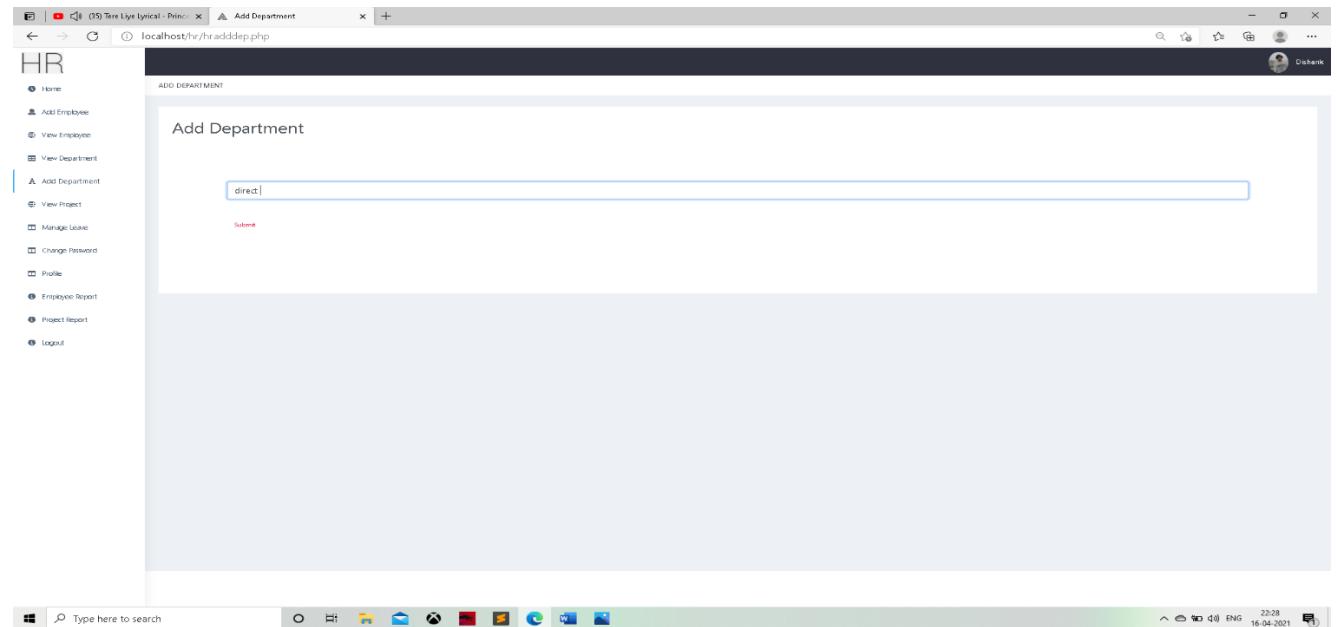
[Figure : View Specific Employee]



[Figure : View Department]



[Figure : Add Department]



[Figure : Add Department with Details]

The screenshot shows a web browser window titled "localhost/hr/hr/viewproject.php". The page has a dark header with the text "HR" and a search bar. Below the header is a navigation menu with items like Home, Add Employee, View Employee, View Department, Add Department, View Project, Manage Leave, Change Password, Profile, Employee Report, Project Report, and Logout. The main content area is titled "VIEW PROJECT" and contains a table with one row. The table columns are: No, Title, Description, Employee ID, Assign Date, Date Of Start, Due Date, Work, and Status. The data in the table is as follows:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
1	EMS	Employee Management System	3	2021-01-01	2021-01-05	2021-01-10	View work	Pending

The status column shows "Pending". At the bottom of the page, there is a search bar and a taskbar with various icons.

[Figure : View Project]

The screenshot shows a web browser window titled "localhost/hr/hr/viewgroupproject.php". The layout is identical to the previous screenshot, featuring a dark header with "HR" and a search bar, a navigation menu, and a "VIEW PROJECT" section with a table. The table has one row with the following data:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
1	EMS	Employee Management System	3	2021-01-01	2021-01-05	2021-01-10	View work	Pending

The status column shows "Pending". The page includes a search bar and a taskbar at the bottom.

[Figure : View Group Project]

The screenshot shows a web browser window with the URL `localhost/hr/hrviewsubproject.php`. The page title is "HR". On the left, there is a sidebar menu with the following items:

- Home
- Add Employee
- View Employee
- View Department
- Add Department
- View Project
- Manage Leave
- Change Password
- Profile
- Employee Report
- Project Report
- Logout

The main content area is titled "VIEW PROJECT" and contains three tabs: "Individual Project", "Group Project", and "Submitted Project". The "Submitted Project" tab is selected, displaying a table with the following data:

No.	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Work	Status
2	Student portal	About student	3	2021-01-01	2021-01-05	2021-01-10	View work	completed

The bottom of the screen shows a Windows taskbar with icons for File Explorer, Mail, and other applications. The system tray indicates the date as 16-04-2021 and the time as 21:31.

[Figure: View Submitted Project]

The screenshot shows a web browser window with the URL `localhost/hr/hrchangeipass.php`. The page title is "HR". On the left, there is a sidebar menu with the following items:

- Home
- Add Employee
- View Employee
- View Department
- Add Department
- View Project
- Manage Leave
- Change Password
- Profile
- Employee Report
- Project Report
- Logout

The main content area is titled "CHANGE PASSWORD" and contains a "Change Password" form with four input fields:

- Old Password
- New Password
- Confirm Password
- Change Password

The "Change Password" button is highlighted in red. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Mail, and other applications. The system tray indicates the date as 16-04-2021 and the time as 22:59.

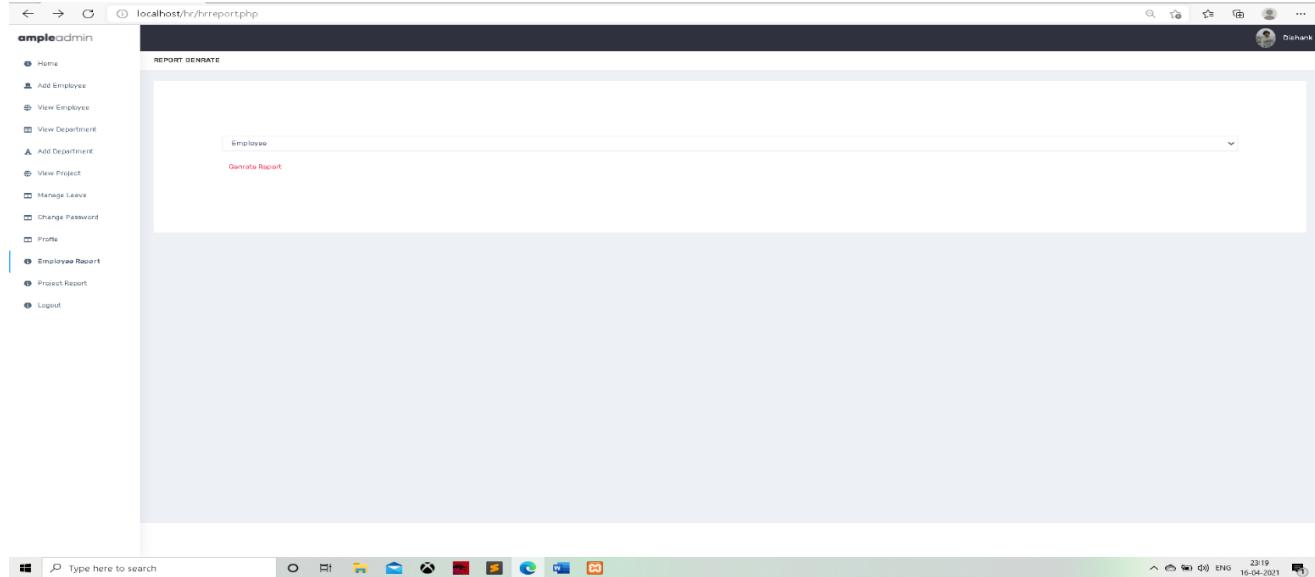
[Figure : Change Password]



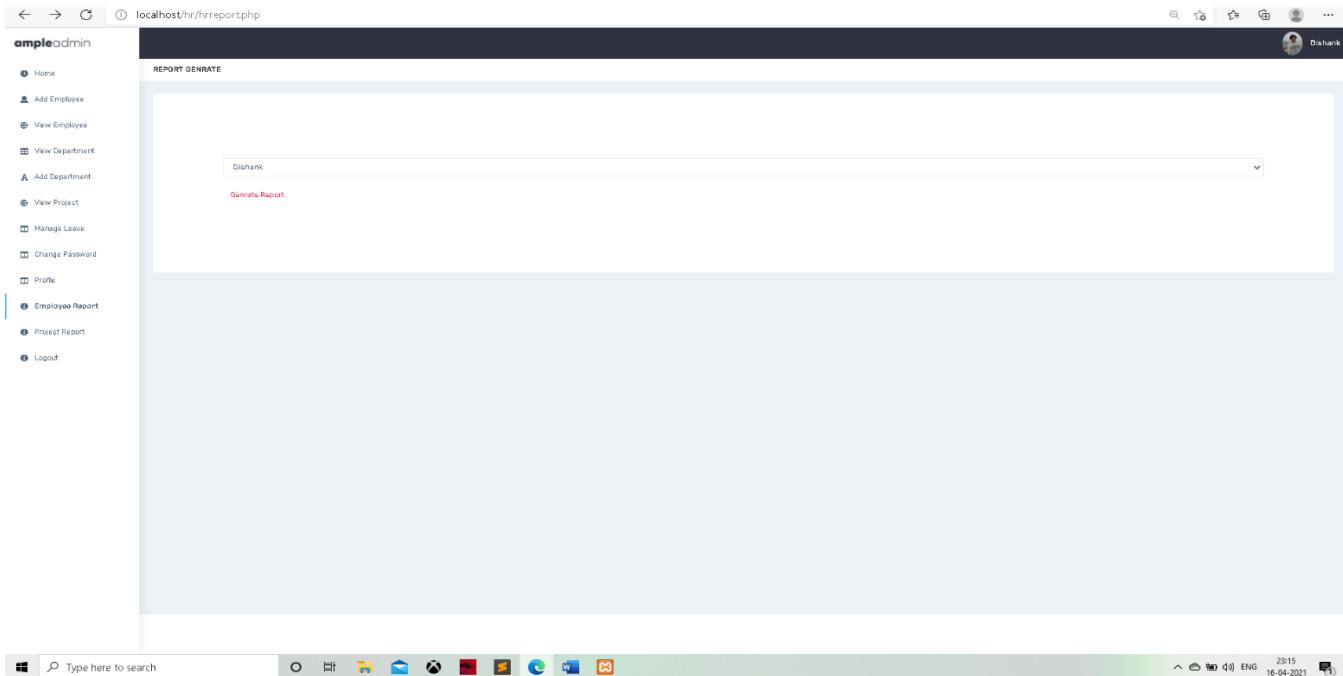
[Figure : Change Password with Validation]

A screenshot of the HR application interface. The left sidebar has a "HR" logo and a navigation menu with items like Home, Add Employee, View Employee, View Department, Add Department, View Project, Manage Leave, Change Password, Profile, Employee Report, Project Report, and Logout. The main content area is titled "PROFILE" and shows a "Profile" section with fields for First Name (Dishank), Last Name (munshi), Company (disabled) (EMS), Email (dishant@gmail.com), Contact no (9687877364), Address (Siddhivinayak society, Maninagar), Date Of Birth (2000-09-10), Date Of Join (2021-01-01), and Role (HR). There is also a placeholder for a profile picture with the text "Choose File | No file chosen" and a "Update Profile" button. The top right corner shows the user's name "Dishank".

[Figure : View Profile]



[Figure : Employee Report Generation]



[Figure : Employee Report]

localhost/hr/displayreport.php

HR

VIEW EMPLOYEE

Employee

Company EMS	First Name Dishank	Last Name Inunshi
Email dishank@gmail.com	Contact no 9687807364	
Address Siddhivinayak Society, Hanmagar		
Date Of Birth 2000-09-10	Date Of Join 2021-01-01	Role HR

WORKING DETAILS

TOTAL PROJECT 0 >> **COMPLETED PROJECTS** 0 >> **PENDING PROJECTS** 0 >>

COMPLETED PROJECTS

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
2	Student portal	About student	3	2021-01-01	2021-01-05	2021-01-10	Completed

PENDING PROJECTS

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
1	EHS	Employee Management System	3	2021-01-01	2021-01-05	2021-01-10	Pending

Type here to search

21:37 16-04-2021

[Figure : Employee Report Display]

localhost/hr/viewprojectreport.php

HR

DASHBOARD

TOTAL PROJECT 3 >> **COMPLETED PROJECTS** 1 >> **PENDING PROJECTS** 1 >>

COMPLETED PROJECTS

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
2	Student portal	About student	3	2021-01-01	2021-01-05	2021-01-10	Completed

PENDING PROJECTS

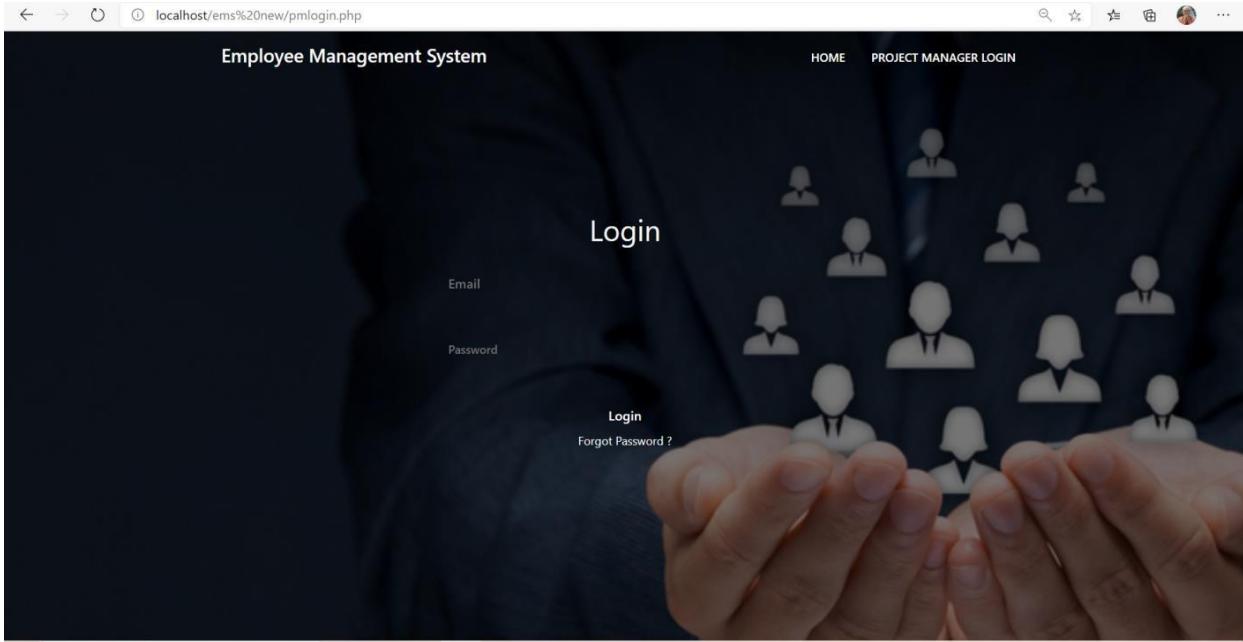
No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
1	EHS	Employee Management System	3	2021-01-01	2021-01-05	2021-01-10	Pending

Type here to search

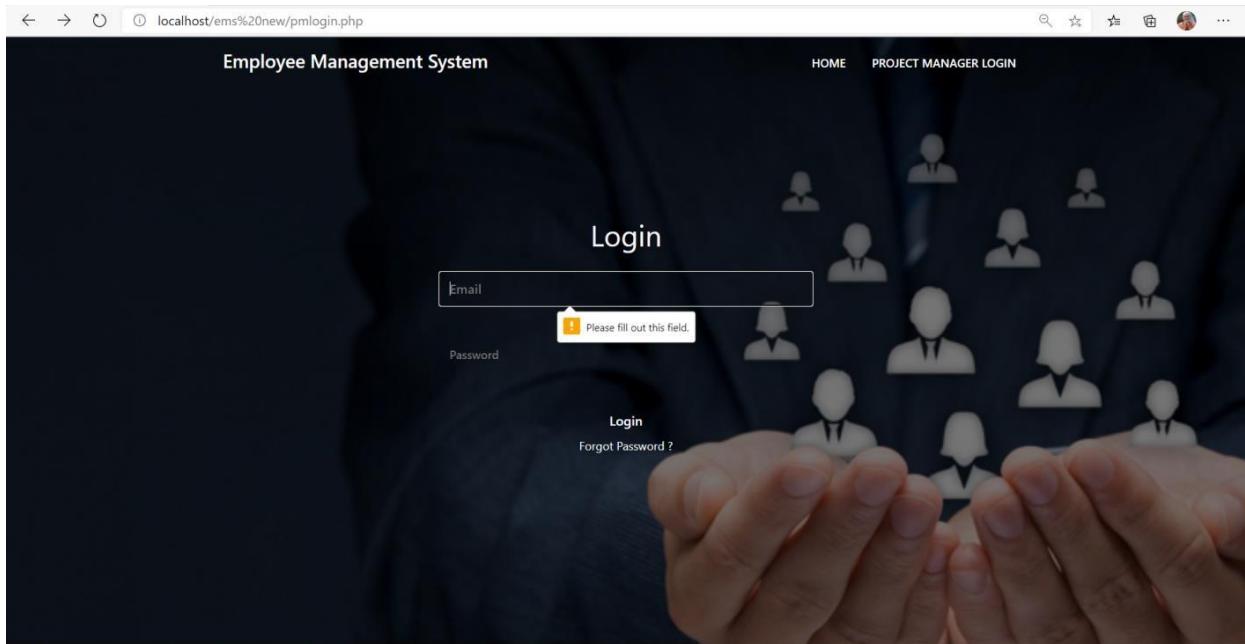
23:30 16-04-2021

[Figure : View Project Report]

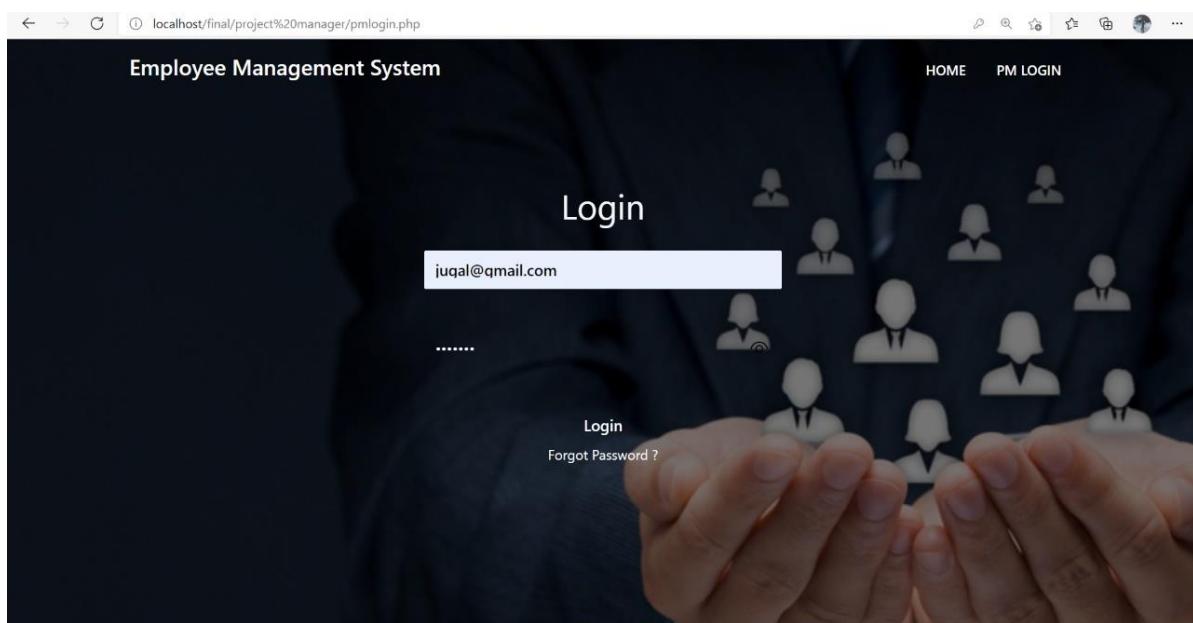
PROJECT MANAGER:-



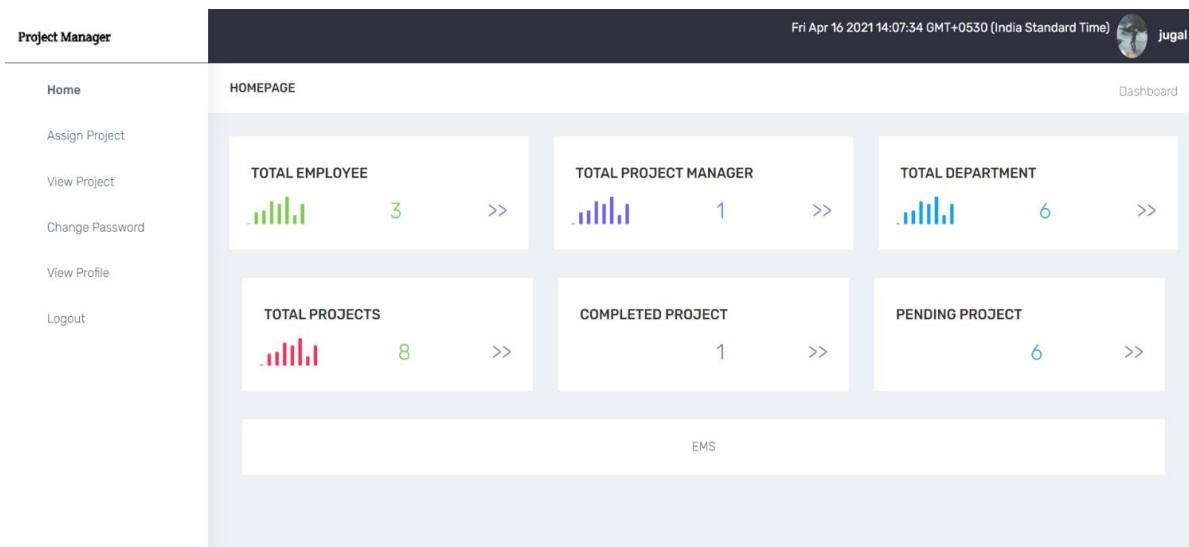
[Figure : login page]



[Figure : login page with validation]



[Figure : login page with details]



[Figure : home page]

The screenshot shows a web application interface titled "ASSIGN PROJECT". On the left, a sidebar menu for "Project Manager" includes options like Home, Assign Project (which is selected), View Project, Change Password, View Profile, and Logout. The main content area has tabs for "Individual Project" and "Group Project", with "Individual Project" selected. The form fields include "Project Title" (containing "ems"), "Project Description" (containing "employee management system"), "Assign Date" (containing "user"), "Date of Start" (empty), "Due Date" (empty), and a "Submit" button.

[Figure : assign Individual project]

This screenshot shows the same "ASSIGN PROJECT" form as above, but with validation errors. The "Assign Date" field contains "user", which is highlighted in red with a validation message: "Please fill out this field." The other fields and the "Submit" button are visible below.

[Figure : assign project validation]

The screenshot shows a web browser window with the URL `localhost/project%20manager//pmassignproject.php`. The page title is "Project Manager". On the left, there is a sidebar with links: Home, Assign Project (which is selected and highlighted in blue), View Project, Change Password, View Profile, and Logout. The main content area is titled "ASSIGN PROJECT". It has two tabs at the top: "Individual Project" (selected) and "Group Project". Below the tabs, there is a text input field containing "ems" and a description input field containing "employee management system". There are date inputs for "Assign Date" (16-04-2021) and "Due Date" (25-04-2021). A dropdown menu for "Group Number" contains the value "3 - shruti". At the bottom right is a red "Submit" button.

[Figure : assign project with details]

The screenshot shows a web browser window with the URL `localhost/project%20manager//pmgroupproject.php`. The page title is "Project Manager". The sidebar is identical to the previous screenshot. The main content area is titled "ASSIGN PROJECT". It has two tabs at the top: "Individual Project" and "Group Project" (selected). Below the tabs, there are four dropdown menus: "Project Title", "Project Description", "Assign Date", and "user". At the bottom right is a red "Submit" button.

[Figure : assign Group project]

ASSIGN PROJECT

Individual Project Group Project

EMS

EMS - Employee Management System

EMS - 2021-01-01

6 - himanshu

EMS - 2021-01-05 EMS - 2021-01-10 1

Submit

[Figure : assign Group project with Details]

VIEW PROJECT

project_id	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	View Work	Action	status	
1	EMS	Employee Management System	3 - shruti	2021-01-01	2021-01-05	2021-01-10	View work	Approved	Denied	pending
2	Student portal	About student	3 - shruti	2021-01-01	2021-01-05	2021-01-10	View work	Approved	Denied	completed
3	CMS	Complaint Management System	3 - shruti	2021-01-01	2021-01-05	2021-01-10	View work	Approved	Denied	rejected
52	i connect	about college management	3 - shruti	2021-03-14	2021-03-18	2021-03-28	View work	Approved	Denied	pending
55	ps	pro	7 - om	2021-04-15	2021-04-18	2021-04-25	View work	Approved	Denied	pending

[Figure : View Individual Project]

localhost/project%20manager/pmviewgroupproject.php

VIEW PROJECT										
Individual Project Group Project										
project_id	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	View Work	Action	status	
53	i connect	about college management	6 - himanshu	2021-03-14	2021-03-18	2021-03-28	View work	Approved	Denied	pending
54	CMS	Complaint Management System	6 - himanshu	2021-01-01	2021-01-05	2021-01-10	View work	Approved	Denied	pending
56	ps	pro	6 - himanshu	2021-04-15	2021-04-18	2021-04-25	View work	Approved	Denied	pending

[Figure : View Group Project]

localhost/project%20manager/pmchangepassword.php

Fri Apr 16 2021 14:48:01 GMT+0530 (India Standard Time)

Project Manager

Dashboard

CHANGE PASSWORD

Change Password

Old Password

New Password

Confirm Password

Change Password

[Figure : Change Password]

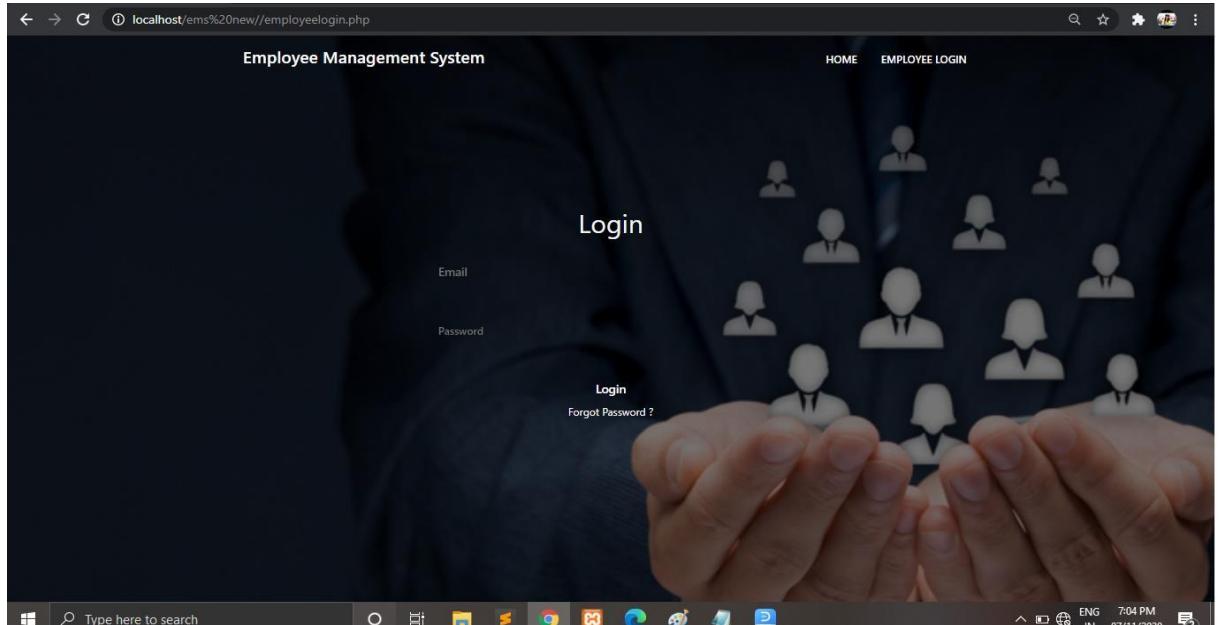


[Figure : Change Password with Validation]

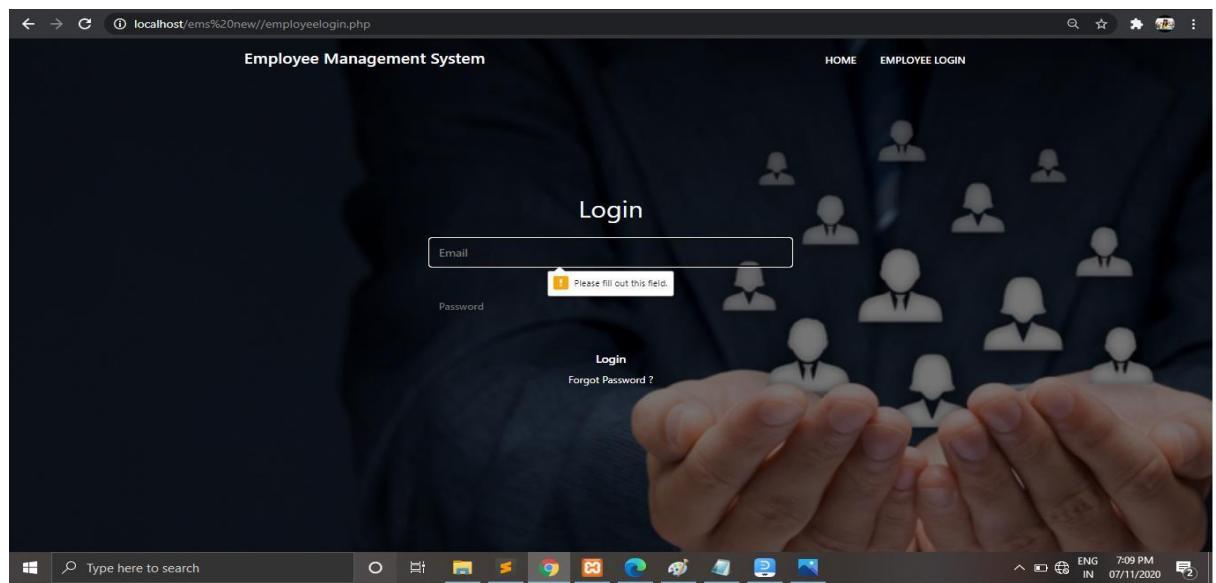
A screenshot of a web application titled "Project Manager". The left sidebar has links for "Home", "Assign Project", "View Project", "Change Password", "View Profile" (which is selected), and "Logout". The main content area is titled "VIEW PROFILE". It shows a "Profile" section with fields: Company (disabled) "EMS", First Name "jugal", Last Name "patel", Email "jugal@gmail.com", Contact No "7990041716", Address "C12 payroll flats .opp siddharth flats .vasna.ahmedabad", Date Of Birth "2002-09-16", Date Of Join "2021-01-01", and Role "PM". To the right is a placeholder image of a person standing in a snowy landscape, a file upload input "Choose File No file chosen", and the text "PM Id :-2 jugal". There is also an "Update Profile" button.

[Figure : View Profile]

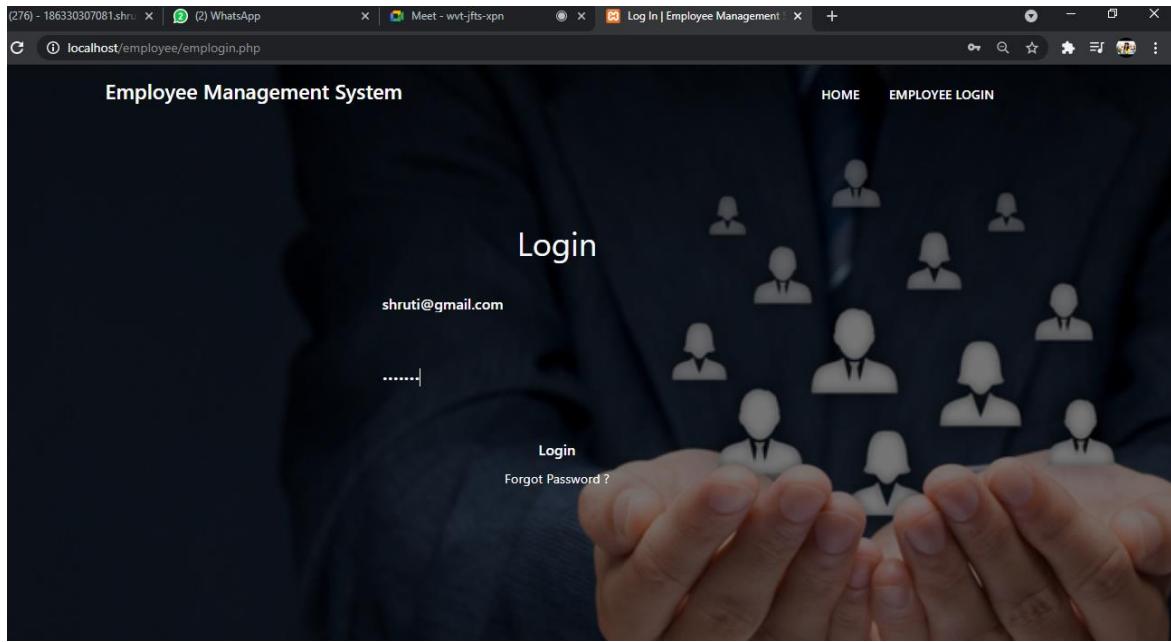
EMPLOYEE:-



[Figure : login page]



[Figure : login page validation]



[Figure : login page with detail]

A screenshot of a web browser showing the 'Employee Management System' home page. The left side features a sidebar with a dark header 'EMPLOYEE' and a list of options: Home, Projects, Leave Status, No of Leave, Apply Leave, Change Password, View Profile, Submit, and Logout. The main content area has a dark header 'HOME'. It displays three cards: 'ASSIGNED PROJECT' with 5 items, 'COMPLETED PROJECT' with 1 item, and 'PENDING PROJECT' with 3 items. Each card includes a small bar chart icon and a '>>' link. The browser's address bar shows 'localhost/final/employee/emphomepage.php'. The top right corner shows a user profile picture and the name 'Shruti'. Other tabs in the browser are identical to the previous screenshot.

[Figure : home page]

The screenshot shows a web application interface for an employee. On the left, there is a sidebar with navigation links: Home, Projects (which is selected and highlighted in blue), Leave Status, No of Leave, Apply Leave, Change Password, View Profile, Submit, and Logout. The main content area is titled "VIEW PROJECT" and contains three tabs: Individual Project, Group Project, and Submitted Project. The Individual Project tab is selected. Below the tabs is a table with the following data:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
28	EMS2	EMS2 EMS2 Ems2 Ems2 EMS2 EMS2 Ems2 Ems2	3	2021-03-16	2021-03-14	2021-03-17	pending
29	EMS4	EMS2 EMS2 Ems2 Ems2 EMS2 EMS2 Ems2 Ems2	3	2021-03-27	2021-03-27	2021-03-28	pending

[Figure : Employee view project]

The screenshot shows a web application interface for an employee. The sidebar and layout are identical to the previous screenshot. The main content area is titled "VIEW PROJECT" and contains three tabs: Individual Project, Group Project, and Submitted Project. The Group Project tab is selected. Below the tabs is a table with the following data:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	Status
3	CMS	Complaint Management System	3	2021-01-01	2021-01-05	2021-01-10	Pending

[Figure : Employee View group project]

The screenshot shows a web application interface for employees. The top navigation bar includes links for Home, Projects, Leave Status, No of Leave, Apply Leave, Change Password, View Profile, Submit, and Logout. The current page is titled "VIEW PROJECT". It displays two submitted projects in a table:

No	Title	Description	Employee ID	Assign Date	Date Of Start	Due Date	work	Status	Action
1	EMS	Employee Management System	3	2021-01-01	2021-01-05	2021-01-10	In Progres	View work	Unsubmit
2	Student portal	About student	3	2021-01-01	2021-01-05	2021-01-10	completed	View work	Unsubmit

[Figure Employee View Submitted project]

The screenshot shows a web application interface for employees. The top navigation bar includes links for Home, Projects, Leave Status, No of Leave, Apply Leave, Change Password, View Profile, Submit, and Logout. The current page is titled "LEAVE STATUS". It displays a list of leave requests in a table:

No	Employee ID	Leave Type	Date Of Start	Date Of End	Reason	Status
1	3	medical_lv	2021-01-05	2021-01-07	I want a leave because I am not feeling well today I am sick so pls approve my leave	Approved
3	3	lwp_lv	2021-03-13	2021-03-13	blopppopoopo ooopopoblopppopoopo ooopopo	Pending
4	3	medical_lv	2021-03-06	2021-03-13	BlappoerBlappoerBlappoerBlappoerBlappoerBlappoerBlappoerBlappoer	Denied
5	3	medical_lv	2021-03-11	2021-03-25	blopppopoopo ooopopoblopppopoopo ooopopo	Pending
6	3	lwp_lv	2021-03-12	2021-03-27	blopppopoopo ooopopoblopppopoopo ooopopo	Pending
7	3	lwp_lv	2021-03-11	2021-03-24	blopppopoopo ooopopoblopppopoopo ooopopo	Pending
8	3	medical_lv	2021-03-20	2021-03-21	BlappoerBlappoerBlappoerBlappoerBlappoerBlappoerBlappoerBlappoer	Pending
9	3	medical_lv	2021-04-13	2021-04-13	blopppopoopo ooopopoblopppopoopo ooopopo	Pending

[Figure : Employee View Leave Status]

VIEW PROJECT		
No	leave name	available Leaves
1	medical leave	141
2	casual leave	96
3	IWP leave	3

[Figure : Employee View Available leave]

APPLY LEAVE	
leave_type	
Date of Start	
Date of End	
reason	
Submit	

[Figure : Employee Apply leave]

localhost/final/employee/empapplyleave.php

APPLY LEAVE

medical_lv

12-04-2021

17-04-2021

jeason

Please fill out this field.

Submit

[Figure : Apply Leave with validation]

localhost/final/employee/empapplyleave.php

APPLY LEAVE

medical_lv

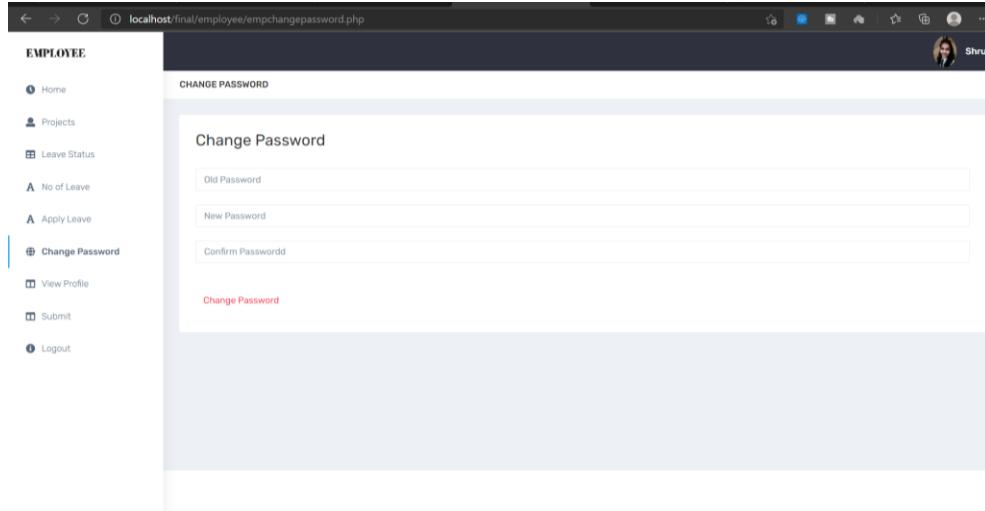
12-04-2021

17-04-2021

I want a leave because i am not feeling well today i am sick so pls approve my leave

Submit

[Figure : Apply Leave with Details]

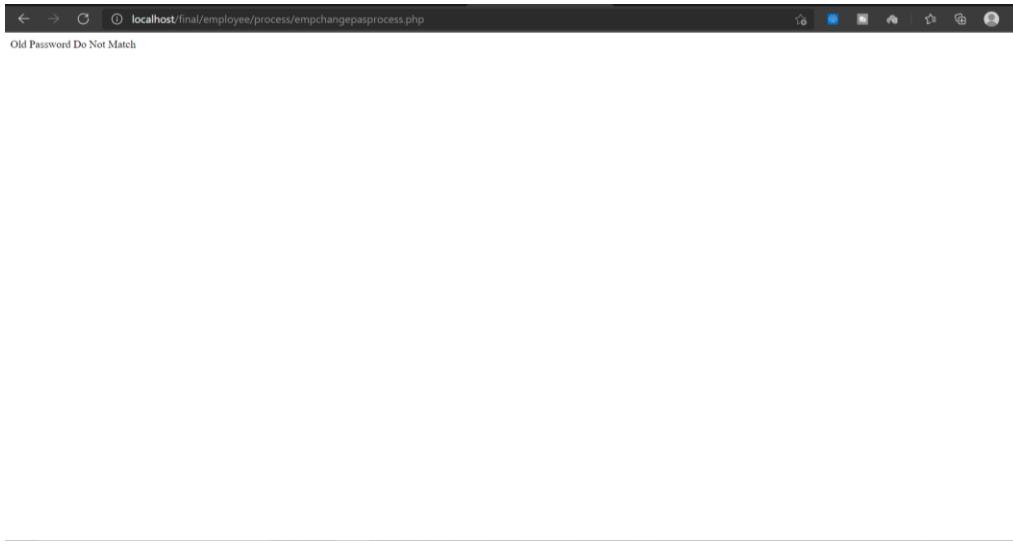


A screenshot of a web browser showing the 'EMPLOYEE' section of a software application. The URL is `localhost/final/employee/empchangepassword.php`. The page title is 'CHANGE PASSWORD'. On the left, there is a sidebar with the following menu items:

- Home
- Projects
- Leave Status
- No of Leave
- Apply Leave
- Change Password** (highlighted with a blue border)
- View Profile
- Submit
- Logout

The main content area contains a 'Change Password' form with three input fields: 'Old Password', 'New Password', and 'Confirm Password'. Below the form is a red button labeled 'Change Password'.

[Figure : Employee change Password]



[Figure : Employee change Password with Validation]

EMPLOYEE

[Home](#)

[Projects](#)

[Leave Status](#)

[No of Leave](#)

[Apply Leave](#)

[Change Password](#) (highlighted)

[View Profile](#)

[Submit](#)

[Logout](#)

CHANGE PASSWORD

Change Password

.....
.....
.....

[Change Password](#)

[Figure : Employee change Password with Details]

EMPLOYEE

[Home](#)

[Projects](#)

[Leave Status](#)

[No of Leave](#)

[Apply Leave](#)

[Change Password](#)

[View Profile](#) (highlighted)

[Submit](#)

[Logout](#)

VIEW PROJECT

Profile

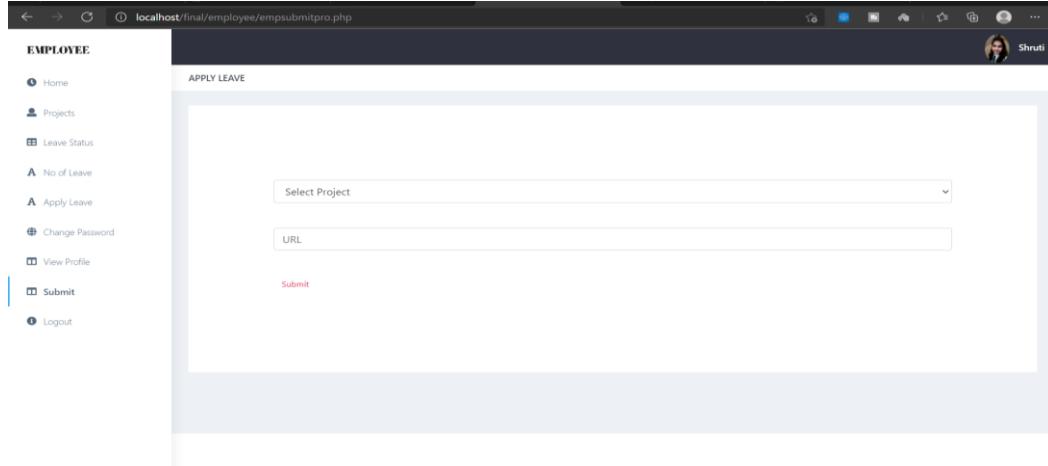
Company (disabled)	First Name	Last Name
EMS	shruti	prajapati
Email	Contact no	
shruti@gmail.com	9409044572	
Address	Rajendra	
Date Of Birth	Date Of Join	Role
2003-05-23	2021-01-01	3

Choose File No file chosen

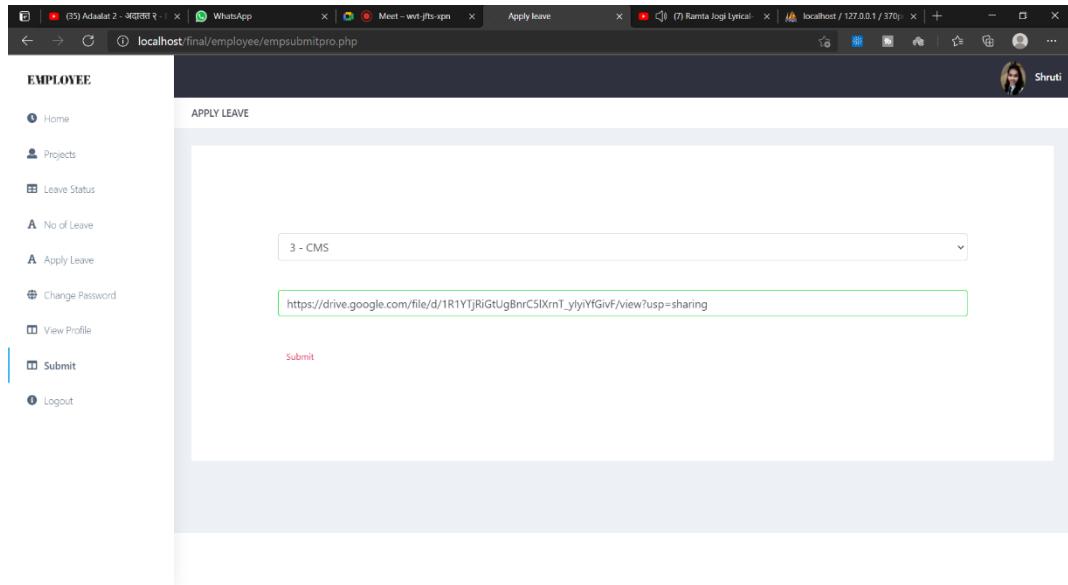
EMPLOYEE id :- 3
shruti

[Update Profile](#)

[Figure : Employee View profile]



[Figure : Employee Submitted Work]



[Figure : Employee Submitted Work with Details]

The screenshot shows a web application interface for employees. On the left, a sidebar titled 'EMPLOYEE' lists various options: Home, Projects, Leave Status, No. of leaves, Apply Leave, Change Password, View Profile, Submit, and Logout. The 'Apply Leave' option is currently selected. The main content area is titled 'APPLY LEAVE'. It features a dropdown menu with '3 - CMS' selected. Below it is a text input field containing 'acv'. To the right of the input field is a validation message: 'Please enter a URL'. At the bottom of the form is a 'Submit' button.

[Figure : Employee Submitted Work with Validation]

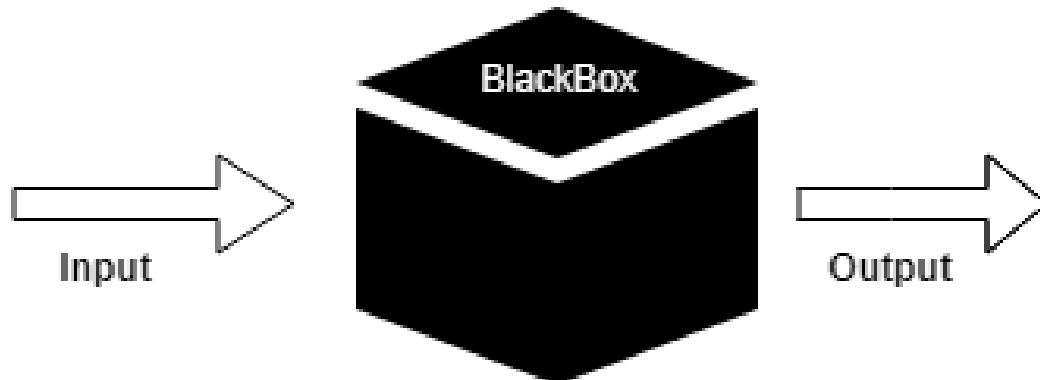
CHAPTER-6

TESTING

6.1 Testing Methods

6.1.1 Black Box Testing

- **Black Box Testing** is also known as Behavioral Testing or Functional Testing. It is a technique of testing without having any knowledge of the internal working of the application.
- Black Box Testing treats the software as a “Black Box”- without any knowledge of internal working and it only examines the fundamental aspects of the system. This method of test can be applied to each and every level of software testing such as unit, integration, system and acceptance testing.



[Figure 91: Black Box Testing]

- This method attempts to find errors in the following cases:
 - Incorrect or missing functions
 - Interface Errors

- Errors in structures or external database access
- Behavior or performance errors
- Initialization and termination errors

Advantages:

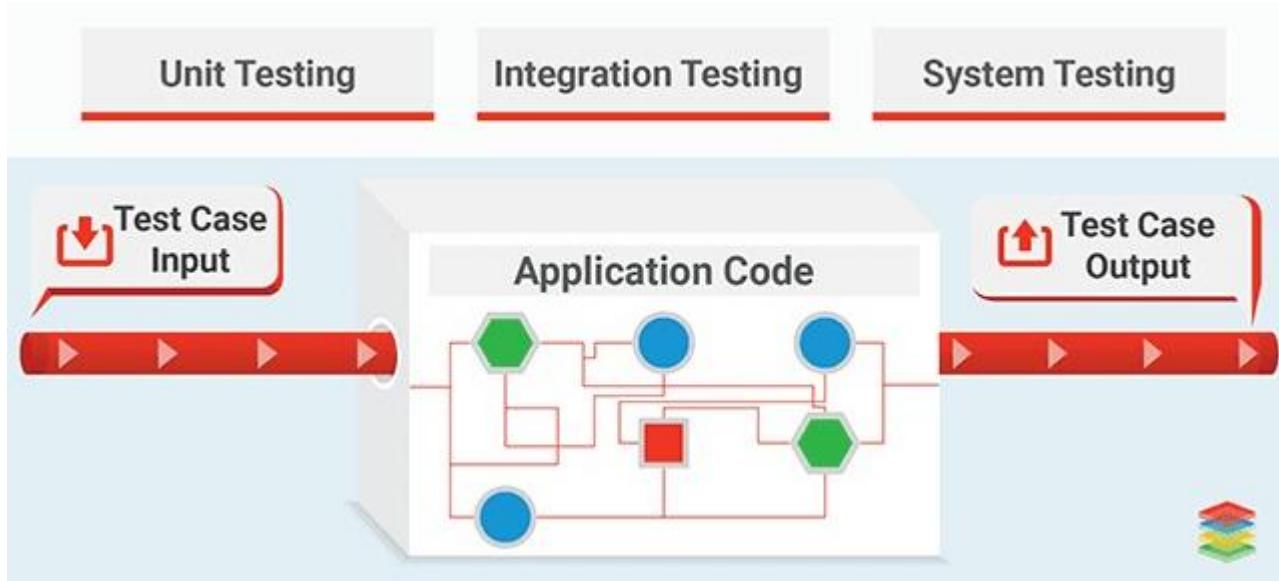
- Unbiased tests because the designer and tester work independently.
- Tester is free from any pressure of knowledge of specific programming languages to test the reliability and functionality of an application software.
- Test cases can be designed immediately after the completion of specifications.

Disadvantages:

- Testing every possible input stream is not possible because it is time-consuming and this would eventually leave many program paths untested.
- Test cases are extremely difficult to be designed without clear and concise specifications.
- Results might be overestimated at time.
- Cannot be used for testing complex segments of code.

6.1.2 White Box Testing

White Box Testing is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester. The tester chooses inputs to exercise paths through the code and determines the appropriate outputs. This method is named so because the software program, in the eyes of the tester, is like a white/transparent box; inside which one clearly sees.



[Figure 92: White Box Testing]

- The aim of this testing is to investigate the internal logic and structure of the code. That is why white box testing is also known as Structural Testing.
- Test Cases generated using White Box Testing can:
 - Guarantee that all independent paths within a module have been exercised at least once.
 - Exercise all decisions whether they are true or false.

- Exercise external data structure of the program.

Advantages:

- Code optimization by revealing hidden errors.
- Transparency of the internal coding structure which is helpful in deriving the type of input data needed to test an application effectively.
- Covers all possible paths of a code thereby, empowering a software engineering team to conduct thorough application testing.
- Enables programmer to introspect because developers can carefully describe any new implementation.
- Gives engineering-based rules to stop testing an application.

Disadvantages:

- Since tests can be very complex, highly skilled resources are required with a thorough knowledge of programming and implementation.
- Test script maintenance can be a burden if the implementation changes too frequently.
- Necessity to create full range of inputs to test each path and condition make the white box testing method time-consuming.

CONCLUSION

It was a great experience to design and implement the Employee Management System by using PHP and to work on its documentation. While working on this project we have learned many things especially how to apply the concept of PHP in modelling of real world system. This project is developed using php, html, css, and MySql fully meets the objective of the system which it has been developed. This project is used for computerizing employee management work in offices etc. The software keeps record of employee's evaluation, salary etc. The software is capable of easy storage of information related to employee through database.

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- [2] The complete Reference PHP, Eight Edition Author: Steven Holzner
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- [3] Database Management System, Fifth Edition Author: Dr.Rajiv Chopra
Published by: S.Chand & Company

▪ WEB REFFERENCE

- [1] Tutorials Point
Link: <https://www.tutorialspoint.com/index.htm>
- [2] Coding Infinite
Link: <https://codinginfinite.com/signup-login-page-php-mysql-database-source-code/>
- [3] W3school
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Link: <https://w3resource.com/mysql-exercises/>

