

A Project Report On

“Employee Management System”

Kamani Science & Prataprai Arts College Amreli

[BCA SEM 5]

Developed By

Sarkhedi Mahek S. [Enrollment No: 23SI002UG05372]

Metaliya Unnat G. [Enrollment No: 23SI002UG05321]

Guided By

Mr.S.R.MAKWANA

Year of Submission

Submitted In partial fulfillment of the requirement for The award of the degree of Bachelor of Computer Application (BCA)

2025-2026



Saurashtra University - Rajkot



**Kamani Science College
&
Prataprai Arts College**

Vidyavihar, Bhavnagar Road, Amreli-365601



[BCA DEPARTMENT]

C E R T I F I C A T E

This is to certify that

Mr./Miss. **Sarkhedi Mahek S.**

Enrollment No **23SI002UG05372** Studying in **B.C.A. Semester V**

has completed his/her Project work satisfactorily during the year **2025-26.**

Signature
Project Guide

Signature
Head of Department

Signature
Examiner



**Kamani Science College
&
Prataprai Arts College**

Vidyavihar, Bhavnagar Road, Amreli-365601



[BCA DEPARTMENT]

C E R T I F I C A T E

This is to certify that

Mr./Miss. **Metaliya Unnat G.**

Enrollment No **23SI002UG05321** Studying in **B.C.A. Semester V**

has completed his/her Project work satisfactorily during the year **2025-26**.

Signature
Project Guide

Signature
Head of Department

Signature
Examiner

Index

No	Title	Page No
1	Preface	1
2	Acknowledgement	2
3	Abstract	3
4	Introduction	4
5	Timeline Chart	5
6	Project Profile	6
7	Hardware Requirement	7
8	Software Requirement	7
9	Requirement Specification	8
10	Problem Definition	9
11	Project Planning Scheduling	10
12	System Analysis	12
13	Feasibility Study	13
14	Project Page Structure	15-16
15	Data Dictionary	17-18
16	Dataflow Diagram	19
17	Context & First Level Diagram	20-21
18	ER Diagram	22
19	Use case Diagram Admin & Employee	23
20	Activity Diagram Admin & Employee	24-25
21	Screenshot Project (Page)	26-35
	Code Explanation	36-37
22	Testing	38-39
24	Future Scope References & bibliography & CD/DVD	40

Preface

The main objective of any computer science student is to get practical knowledge as possible. Being able to have a practical knowledge by developing a project is a lifetime experience. As practical knowledge is important as theoretical knowledge we are thankful of having a project.

Through the development of the project we had a great experience of various strategies that can be applied in development of the project. This project is the stepping stone for our career

We are pleased to present this project report. Proper case has been taken while organizing the report so that it is easy to comprehend. Also, various software engineering concepts have been implemented.

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Acknowledgment

We are student of bca sem-5 studying in the kamani science college amreli. We thanks to the entire person who has given their support in shaping of the system.

We thank **Mr. S R MAKWANA** for giving us guidance and co-operation in understanding the system. We also thanks them for their unconditional help in making of this project.

We have great deal of gratitude towards our head of department who encourages in taking up this activity. We thank all faculties and administrative staffs of the institute.

I am also thankful to all those friends who have helped me in this endeavor either of indirectly & especially my family.

Thanks To All

Abstract

An employee management system is technology designed to streamline core HR services and improve workforce productivity. It accomplishes these goals largely by automating labor-intensive, administrative tasks and using analytics to drive business decisions

Employee Management System Project Summary It ensures that HR efficiently manages each employee's payroll and disburses salaries on time. An EMS securely stores and manages the personal and work-related details of employees.

Employee management system is an application based system, having two applications developed, one for employers to manage employee details and another for employees to mark their projects. Every organization whether government or private uses an information system to store data of ems.

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Introduction

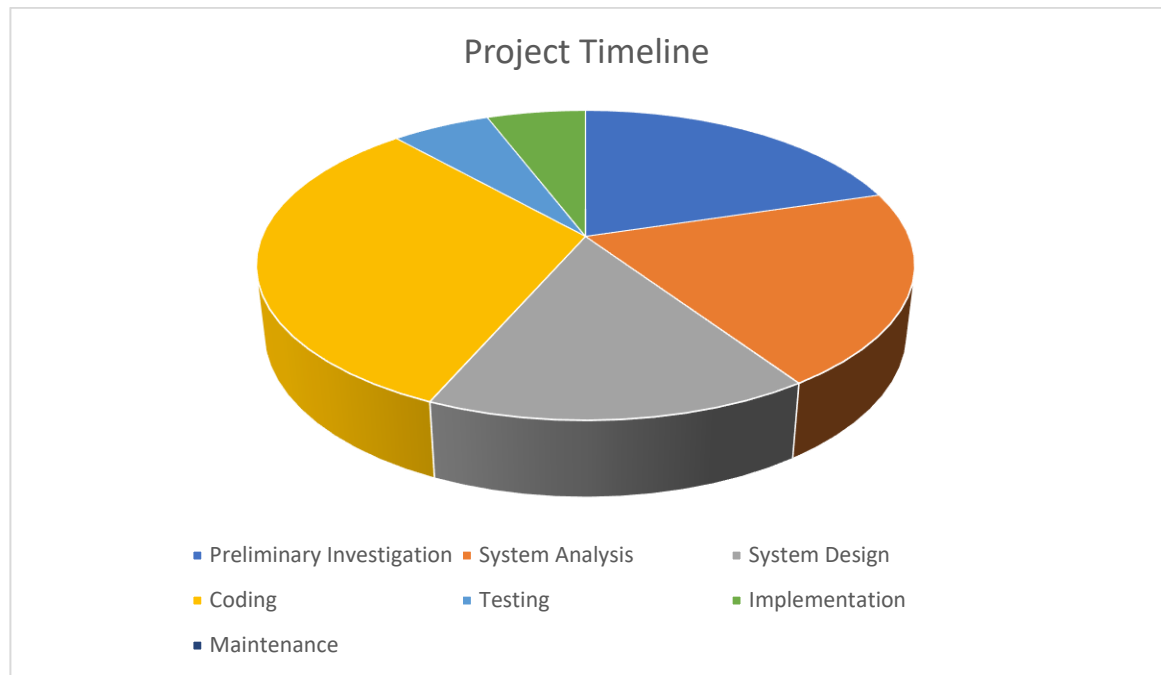
Every organization whether big or small has human Resource challenges to overcome. Every organization Has different employee management needs, there for Use design exclusive employee management system. That is adapted to your management requirements.

This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of human resource for your future goals. Also for those busy executive who are always on the go, our systems will ultimately allow you to better Manage resources.

One of the main features in employee management system is time tracking for employees. effective time tracking mechanism saves both time and money for the organization.

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Timeline-Chart



Preliminary Investigation	→	14 Days
System Analysis	→	14 Days
System Design	→	11 Days
Coding	→	22 Days
Testing	→	4 Days
Implementation	→	4 Days
Maintenance	→	6 Days

Project-Profile

- **Project Name** : **Employee Management System**
- **Developed by** : **Sarkhedi Mahek S. & Metaliya Unnat G.**
- **Frontend tool** : **PHP,HTML,CSS**
- **Backend tool** : **PHP MySQL**
- **Operating System** : **Microsoft Windows10 pro**
- **Computer System** : **Pentium-IV or Higher, RAM:256MB**
- **Project Details** : **Provide best platform for admin, Admin send a project for employer, Employer send a leave request, admin manage a employee.**
- **Completion Time** : **2.5 Months**
- **Guided by** : **Mr. S.R.Makwana**
- **Submitted by** : **Saurashtra University, Rajkot**

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Hardware-Requirement

- ❖ 512+MBOfRAM
- ❖ Multimedia Keyboard And Mouse
- ❖ GHz Processor
- ❖ Monitor
- ❖ Printer

Software-Requirement

- ❖ Operating System: Microsoft windows10pro
- ❖ Front End Tools: PHP,HTML,CSS,SublimeText3
- ❖ Back End Tools : PHP MySQL
- ❖ Documentation Tool: Microsoft word2007
- ❖ Browser Specification: Google Chrome Mozilla Firefox

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Requirement Specification

In this section provides requirements overview of the system.

- **Registration:**

- **Employee :**

- If employer wants to post project then must be registered, unregistered employer can't post project.

- **Admin:**

- If employer want to get the project the must be registered, unregistered employer can't get a project.

- **Login:**

Employee login to the system by enter in valid user id and password for the use important functionality of system.

- **Add Employee:**

Admin add the employee.

- **Admin Send Project:**

Admin can easily send project using this system.

- **Send Project To Employer:**

After completed the project Employee send a project to admin and get a more mark.

- **Generation Report:**

After completing all activities employer get full report of project.

Project Problem Definition

- Maintain Employee Profile
- Maintain Project Filter
- Maintain Salary
- Maintain Mark Of Admin
- Maintain Allocated Work
- Maintain Attendance & Leave Management
- Performance Evaluation / Marks of Admin



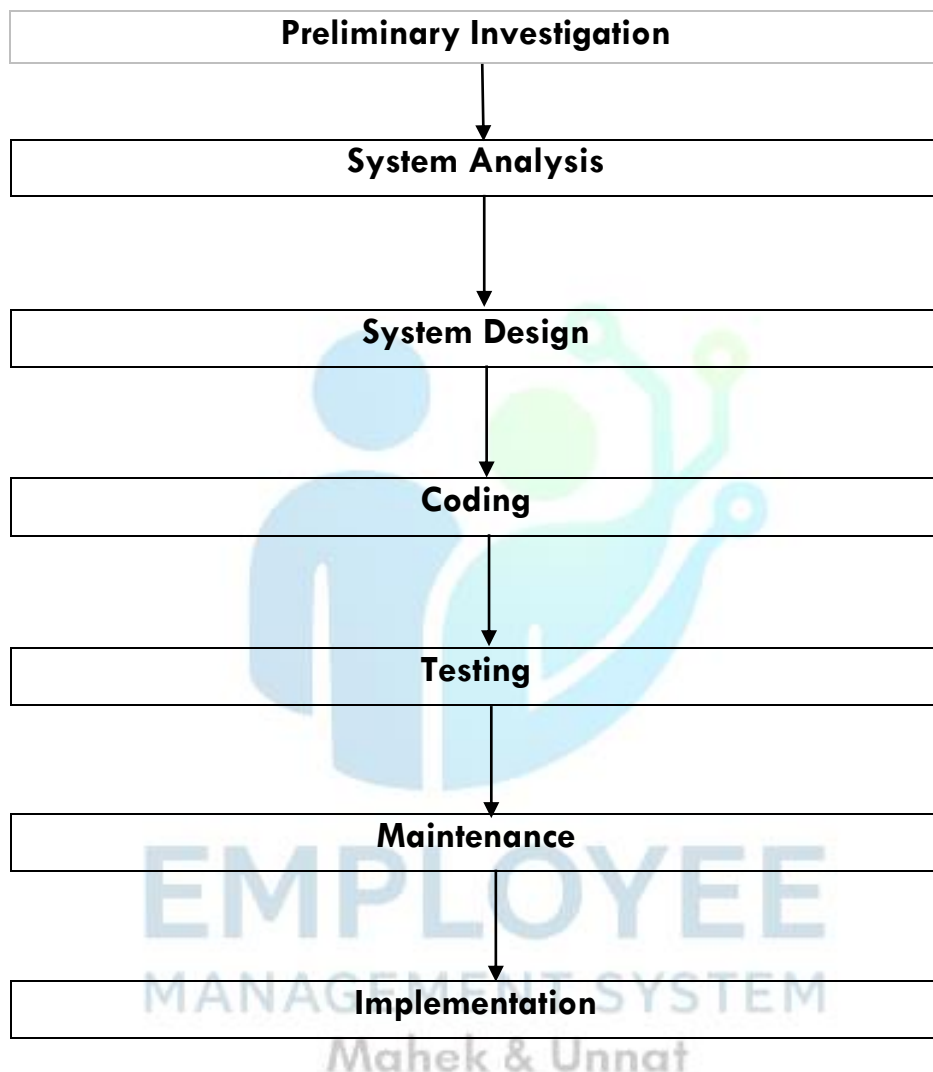
Project Planning & Scheduling

Project planning is an aspect of Project Management, which comprises of various processes. The aim of these processes is to ensure that various Project tasks are well coordinated and they meet the various project objectives including timely completion of the project .Project Planning is an aspect of Project Management that focuses a lot on Project Integration. The project plan reflects the current status of all project activities and is used to monitor and control the project.

The Project Planning tasks ensure that various elements of the Project are coordinated and therefore guide the project execution. Project Scheduling is one of the most important task of Project Planning and also the most difficult tasks .In very large projects it is possible that several teams work on developing the project .They may work on it in parallel. However their work may be interdependent.

Employee Management System is important to ensure that every phase of development is completed on time and within scope. It helps in proper resource allocation, avoids delays, and ensures smooth progress from analysis to maintenance. Effective planning guarantees efficiency, timely delivery, and successful implementation of the EMS project.

- **Project Planning & Scheduling a sender :-**



System Analysis

System analysis is the process of identification of object island requirements, evaluation of alternative solution recommendation for a more feasible solution. In other words, system analysis is the step by step process of gathering, recording and interpreting facts. The main aim of analysis is to determine problem area sand total solutions limited them.

➤ System analysis itself breaks into two stages:

1. Preliminary analysis :
2. Detailed analysis :

During analysis, data are collected from the available files, decision points and transactions of the systems using various tools like Dataflow Diagram (DFD).

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

Feasibility-Study

A purpose of feasibility study is to check out the possibility of a computerized solution to the organization's observed problem before very much money that has been.

A feasibility study is carried out to select the best system that meet s performance requirements .Only by spending the time to evaluate the feasibility reduce the chances for extreme embarrassment at later stage of the system project.

For the complete feasibility study Into concentrate on following Area:

- They are three type so feasibility Study:
 1. Technical
 2. Operational
 3. Economical

EMPLOYEE
MANAGEMENT SYSTEM
Mahek & Unnat

➤ **Technical :**

Technical feasibility considers whether the desired project can be completed within the framework of available technology. As our project was website designing, this was not much of a problem, as many advanced web-editing tools are available.

➤ **Operational :**

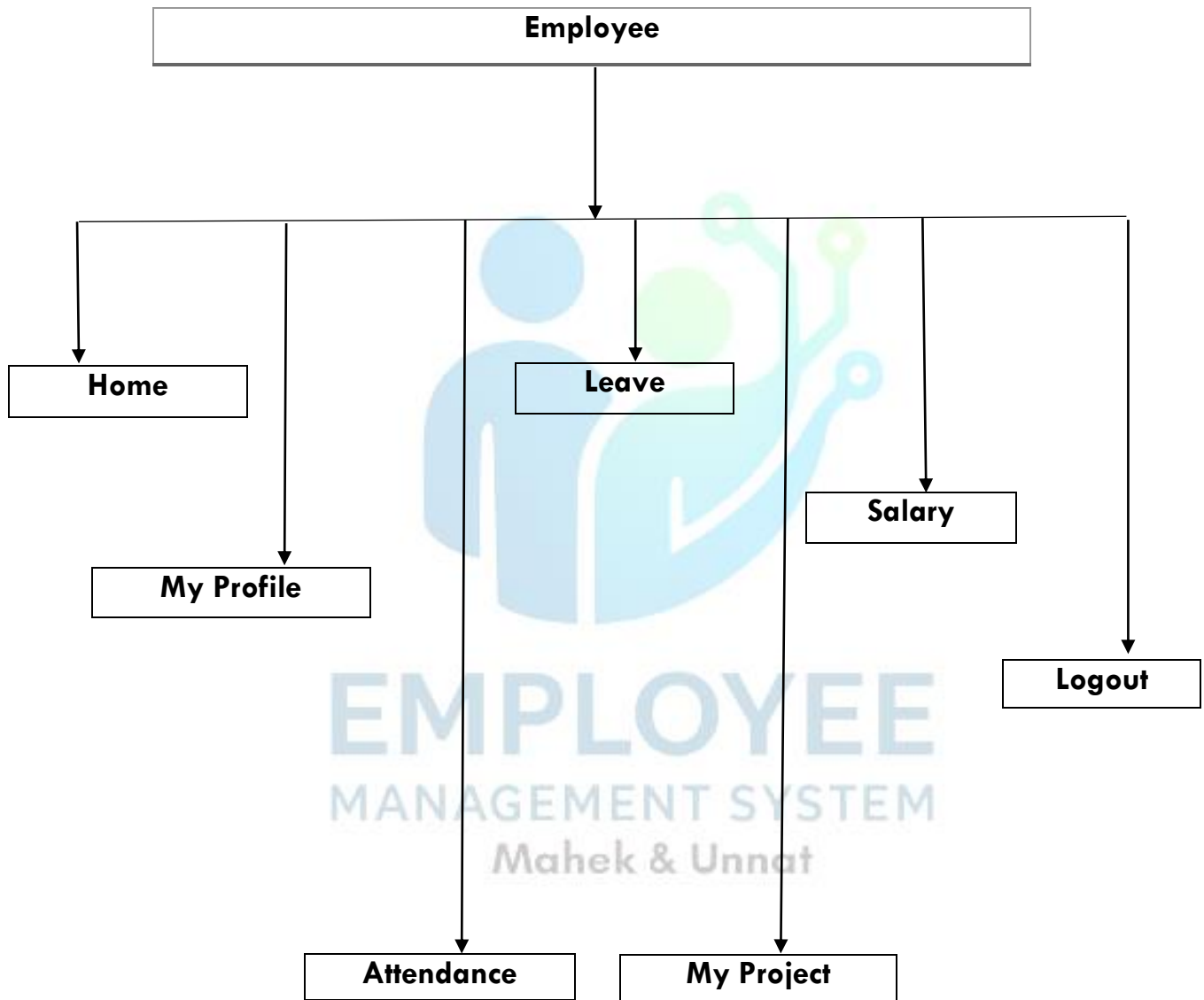
Operational feasibility was done to assure that the product that would be developed would be used. Since a card and gifts have to have a website of its own sooner or later, that wasn't much of a problem.

➤ **Economical :**

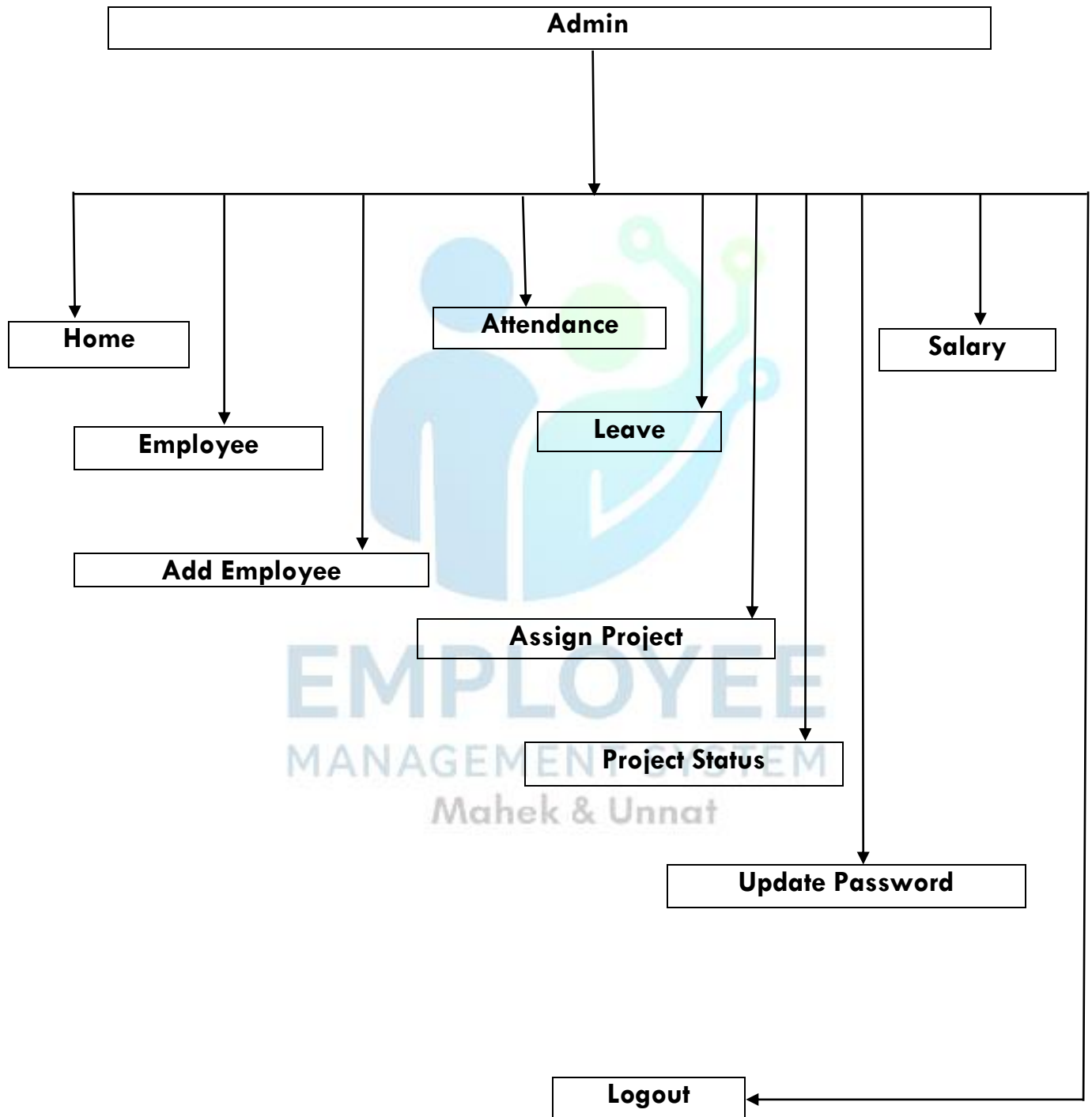
Our Commercial Website is Economically Feasible Because. We have developed this website only once. Only future enhancement is required on the other hand every client can view our site any time or many times as per their requirement. So the future economical expenses are null. So we can say that this website is totally economically feasible.

Project Page Structure

➤ Employee-Side:-



➤ Admin Side:-



Data-Dictionary

The data Dictionary Is a set of table .My-SQL use sit to maintain information about this own database.

➤ Data dictionary contains the following information:

- ✓ Name of the table of database.
- ✓ User information such as privileges.
- ✓ Name and data-type of all columns in data base table.

❖ Database Name : **ems**

1. Users : Admin – Employee

This Table Is used to store admin/employee information.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	username	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	password	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	role	enum('admin','employee')	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 5	created_at	timestamp			No	current_timestamp()			Change Drop More
<input type="checkbox"/> 6	is_approved	tinyint(1)			Yes	0			Change Drop More

2. Employee :

This table is used to store add employee information.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	email	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	phone	varchar(15)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 5	department	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 6	position	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 7	hire_date	date			Yes	NULL			Change Drop More
<input type="checkbox"/> 8	created_at	timestamp			No	current_timestamp()			Change Drop More
<input type="checkbox"/> 9	updated_at	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More
<input type="checkbox"/> 10	salary	decimal(10,2)			Yes	NULL			Change Drop More

3. Leave_requests:

This table is used to employee leave all information.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 employee_id	int(11)			No	None			Change Drop More
<input type="checkbox"/>	3 leave_type	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 start_date	date			No	None			Change Drop More
<input type="checkbox"/>	5 end_date	date			No	None			Change Drop More
<input type="checkbox"/>	6 reason	text	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/>	7 status	enum('Pending', 'Approved', 'Rejected')	utf8mb4_general_ci		Yes	Pending			Change Drop More
<input type="checkbox"/>	8 applied_date	date			Yes	curdate()			Change Drop More
<input type="checkbox"/>	9 approved_by	int(11)			Yes	NULL			Change Drop More
<input type="checkbox"/>	10 approved_date	timestamp			Yes	NULL			Change Drop More
<input type="checkbox"/>	11 created_at	timestamp			No	current_timestamp()			Change Drop More

4.Project:

This table is used to store all Project Status information.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 project_name	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 employee_id	int(11)			No	None			Change Drop More
<input type="checkbox"/>	4 start_date	date			No	None			Change Drop More
<input type="checkbox"/>	5 end_date	date			Yes	NULL			Change Drop More
<input type="checkbox"/>	6 description	text	utf8mb4_general_ci		Yes	NULL			Change Drop More

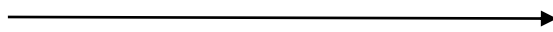
5.Payroll /Salary :

This table is used to store all information on salary.

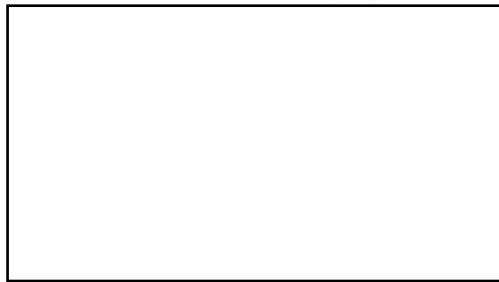
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 employee_id	int(11)			No	None			Change Drop More
<input type="checkbox"/>	3 basic_salary	decimal(10,2)			No	0.00			Change Drop More
<input type="checkbox"/>	4 allowances	decimal(10,2)			Yes	0.00			Change Drop More
<input type="checkbox"/>	5 deductions	decimal(10,2)			Yes	0.00			Change Drop More
<input type="checkbox"/>	6 net_salary	decimal(10,2)			Yes	NULL		STORED GENERATED	Change Drop More
<input type="checkbox"/>	7 pay_date	date			No	None			Change Drop More
<input type="checkbox"/>	8 pay_month	varchar(7)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	9 created_at	timestamp			No	current_timestamp()			Change Drop More

Data-Flow Diagram

The DFD gives brief idea on how the designed system is working. It also suggests to us the type of users who using this system and the process involved in the system.



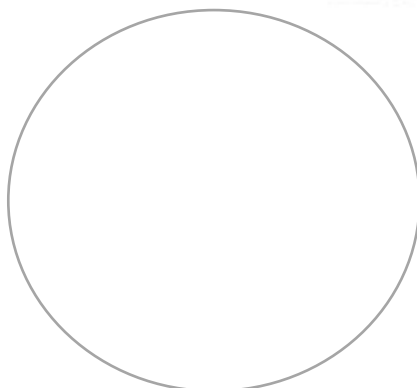
Represent data-flow



Represent Entity

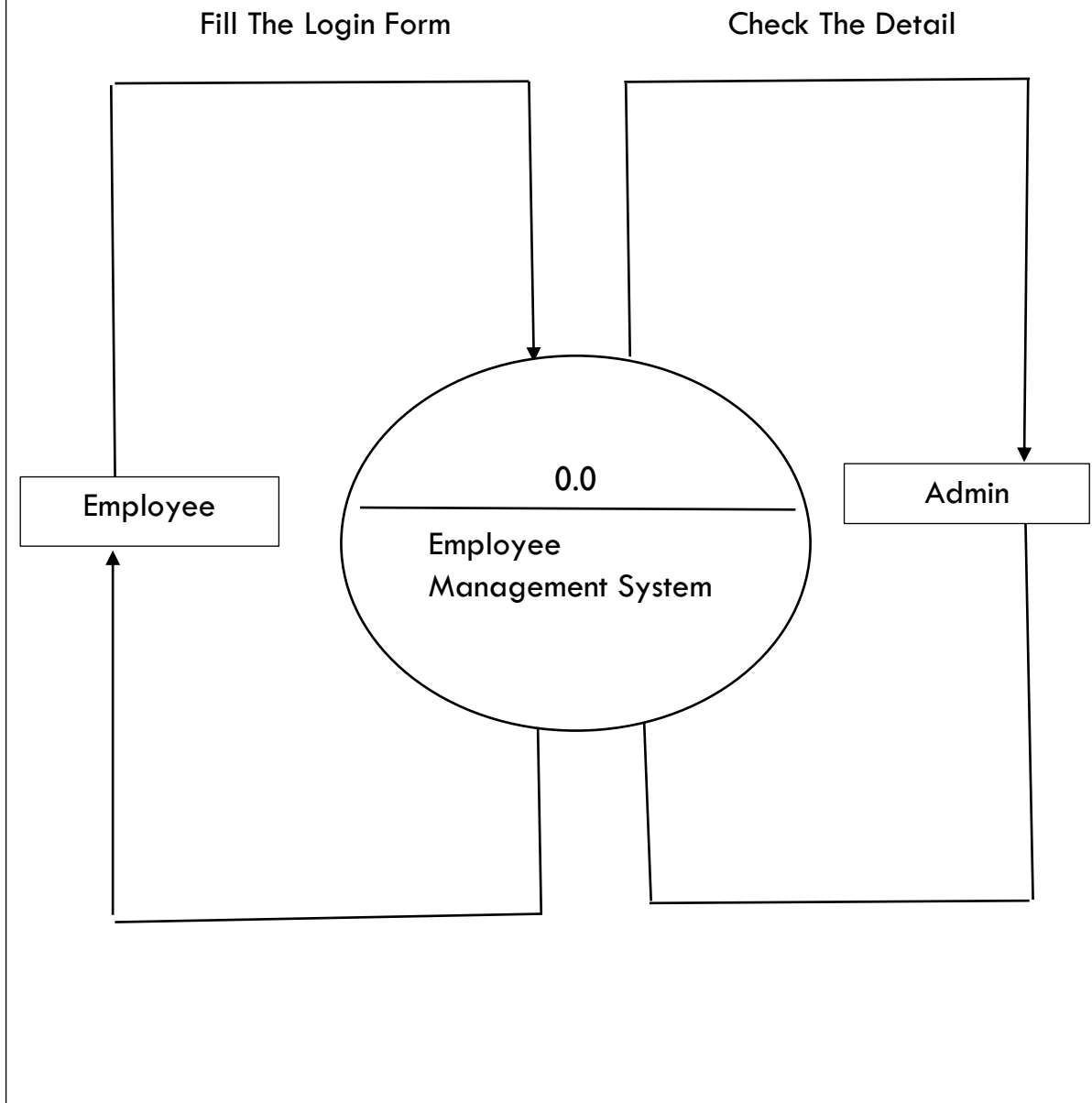


Represent a data table

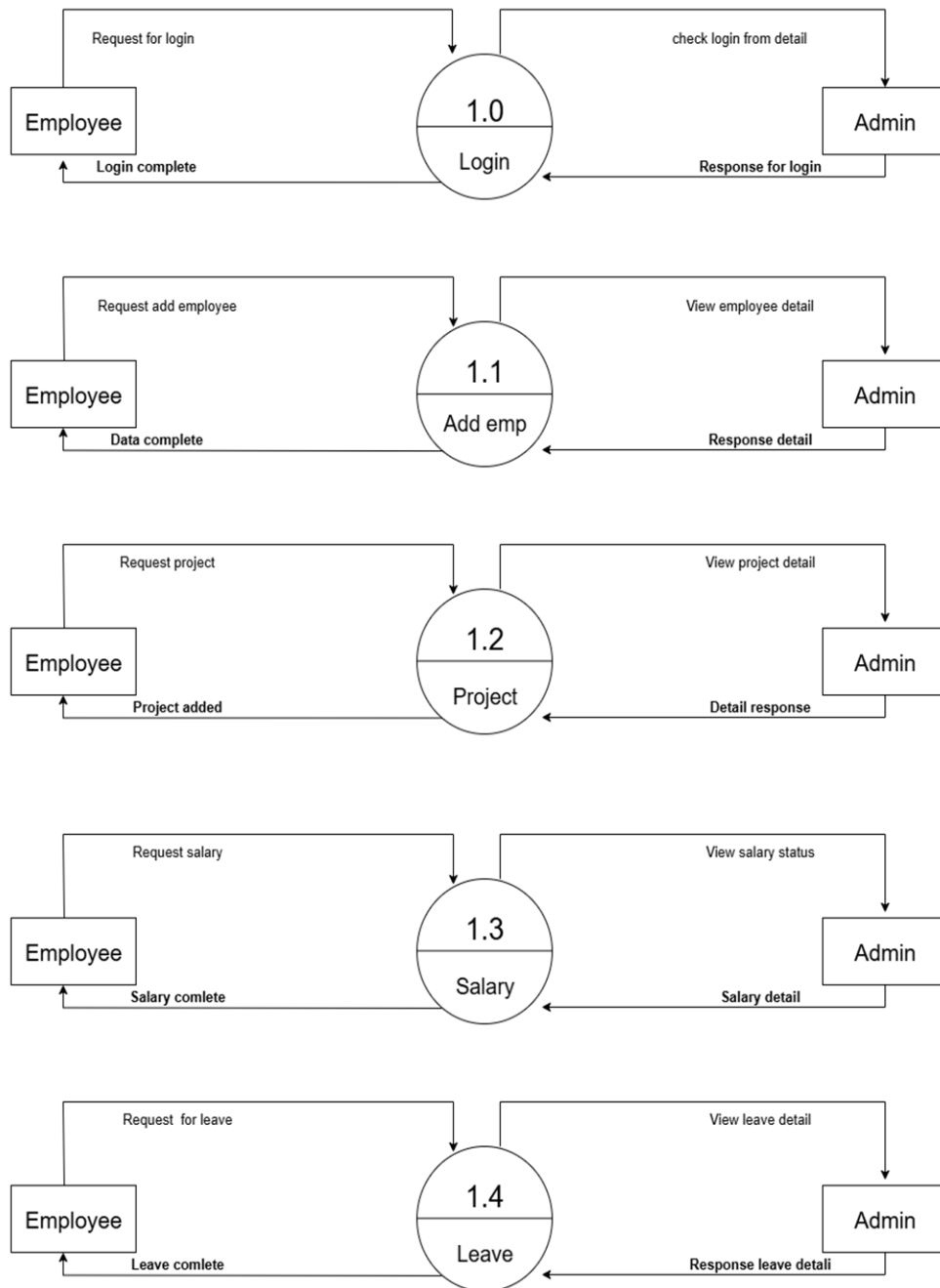


Represent processing

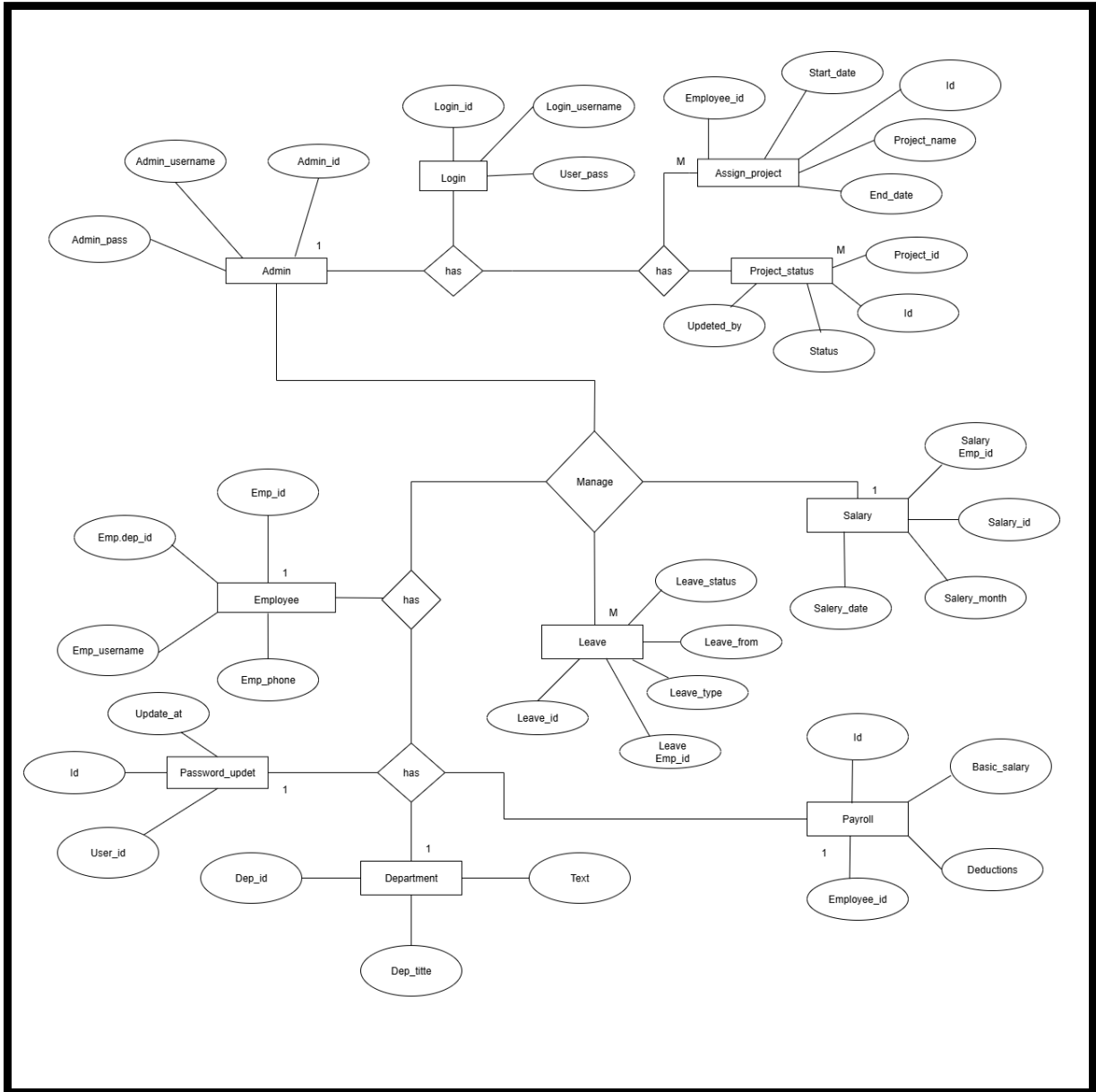
Context Level Diagram



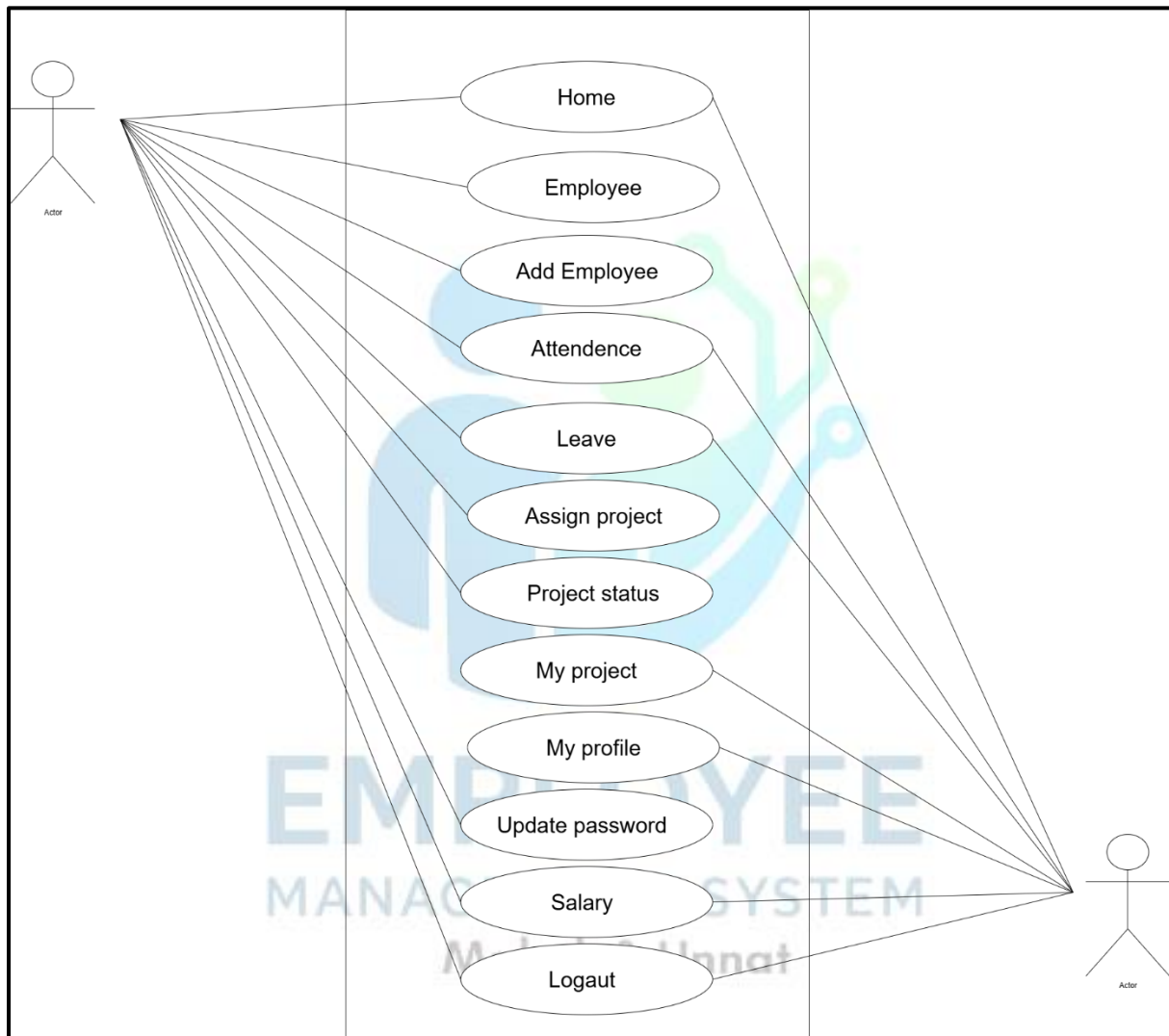
EMS Data Flow Diagram First Level



EMS ER Diagram

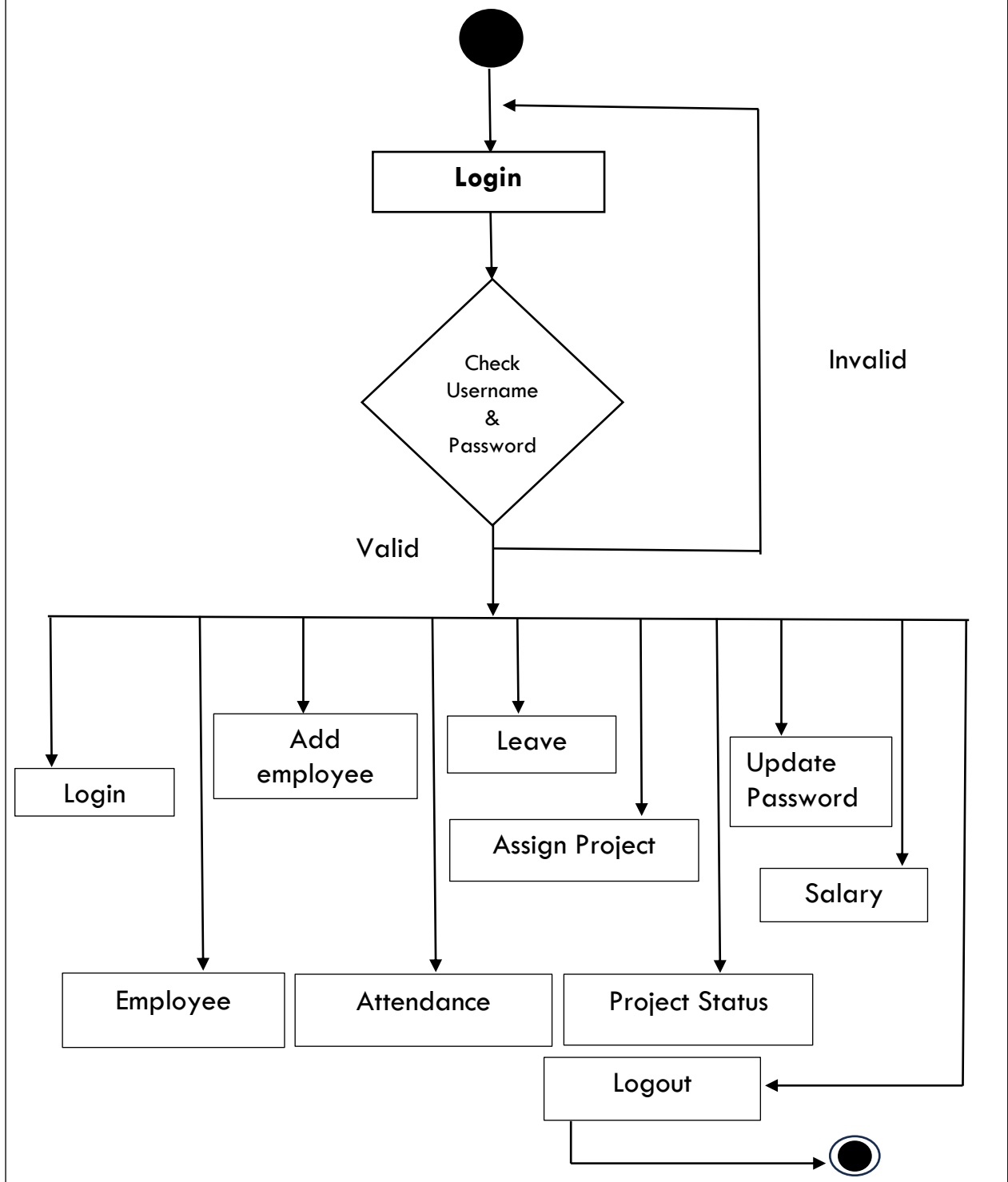


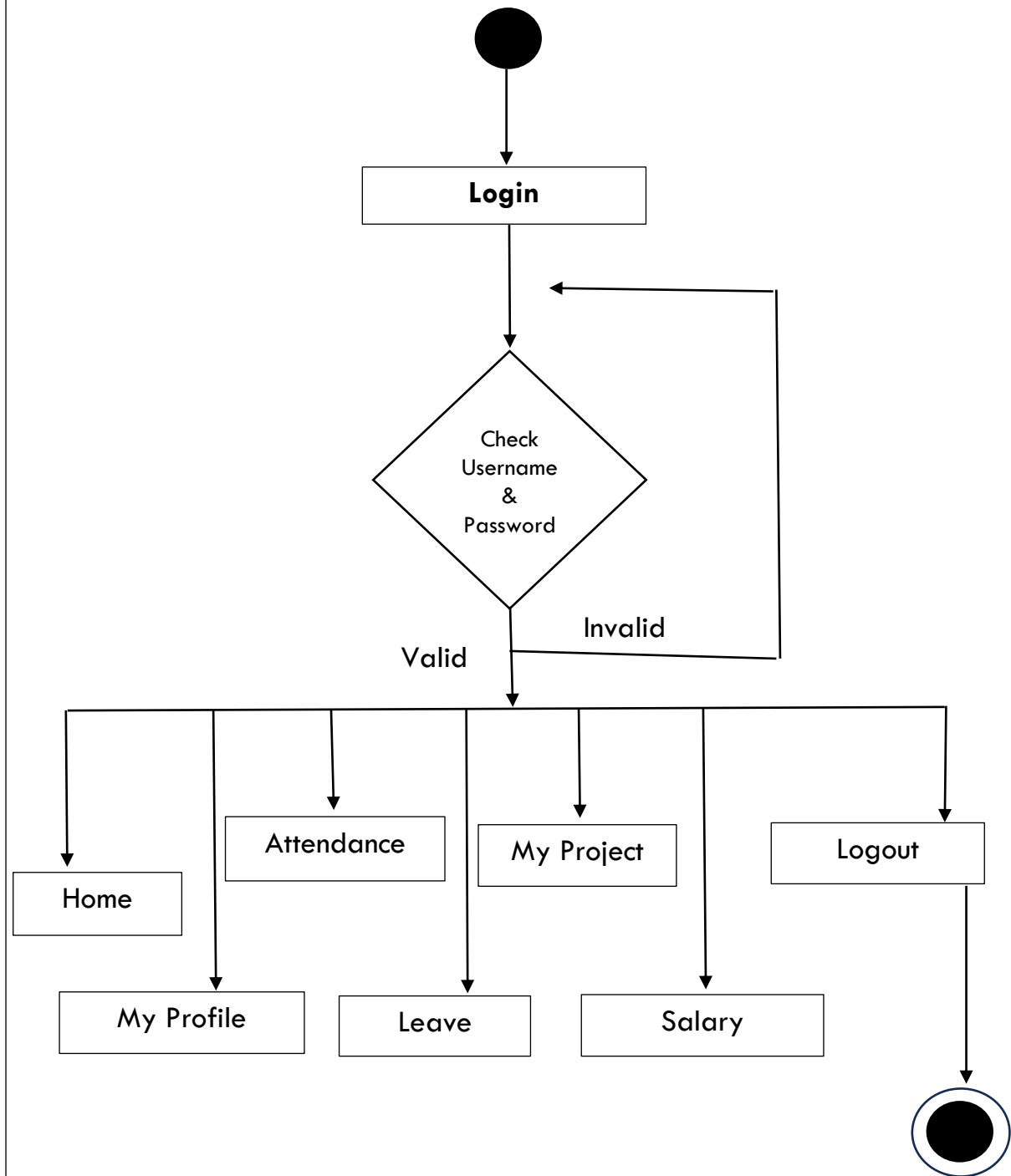
Use Case Diagram EMS Admin & Employee



Activity Diagram

EMS Admin Side

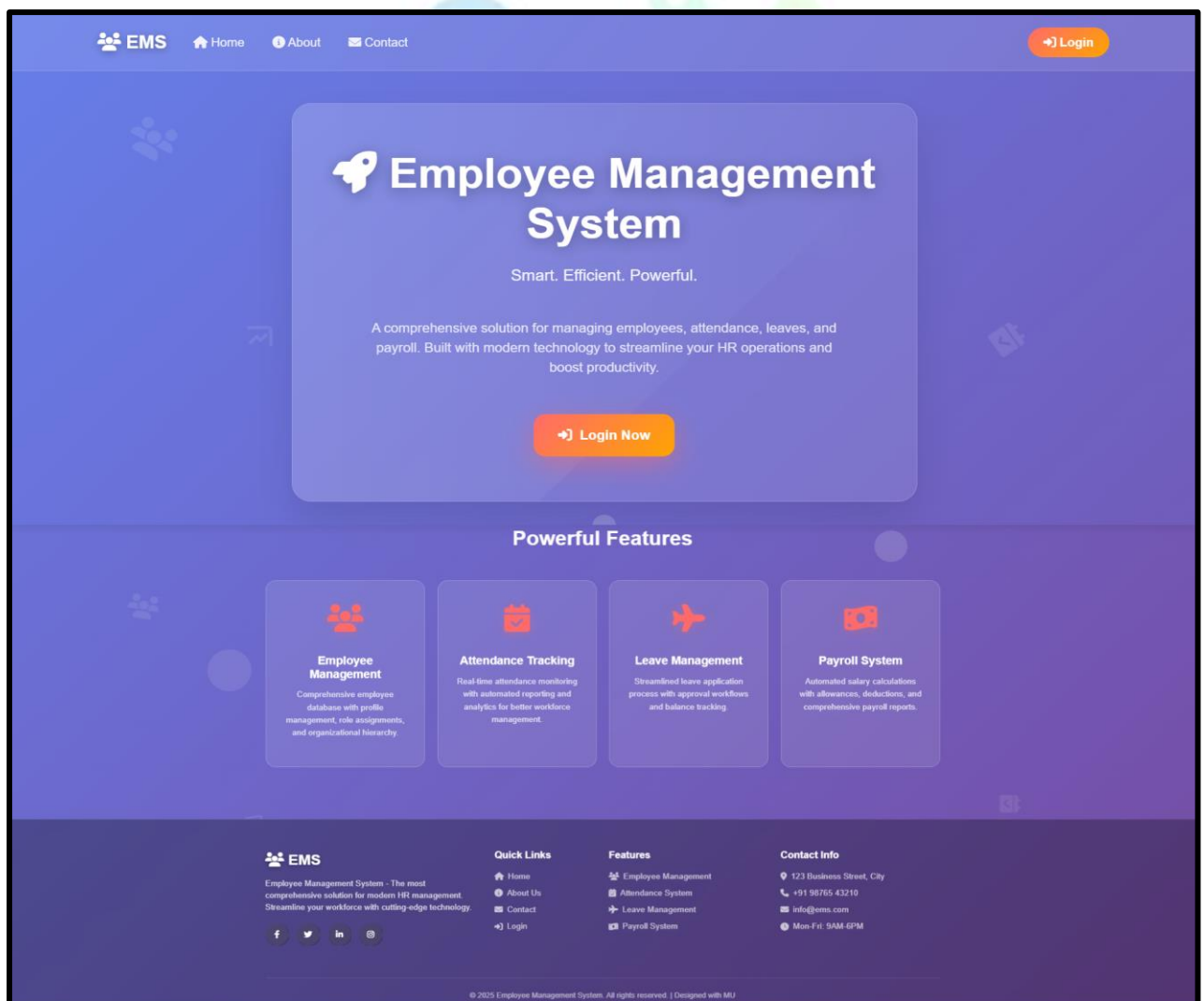


EMS Employee Side

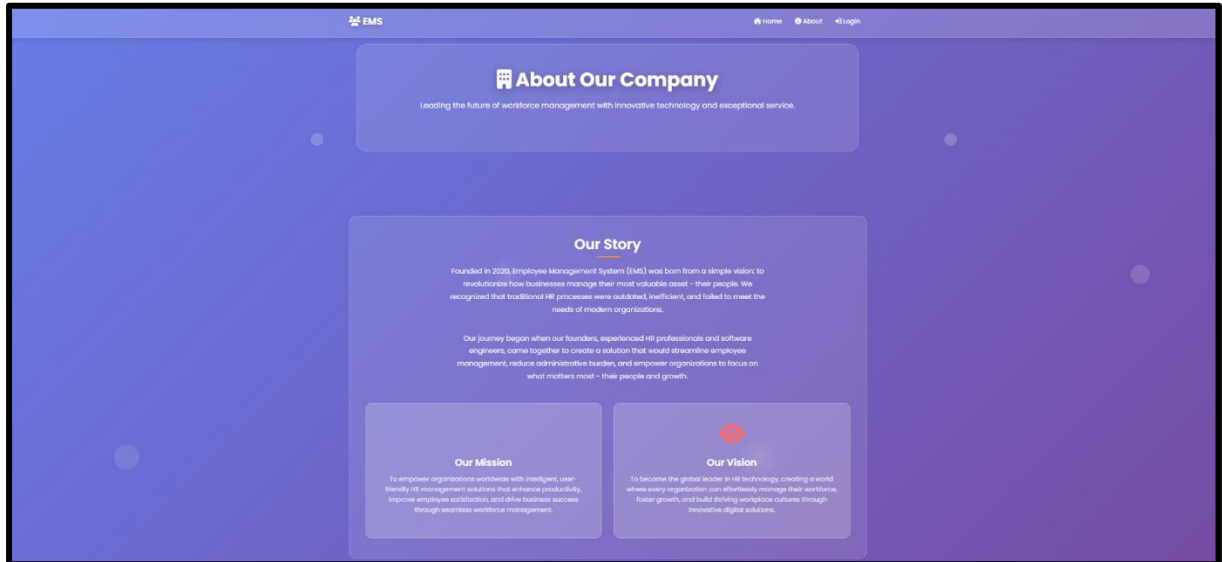
Screenshots

Front Side

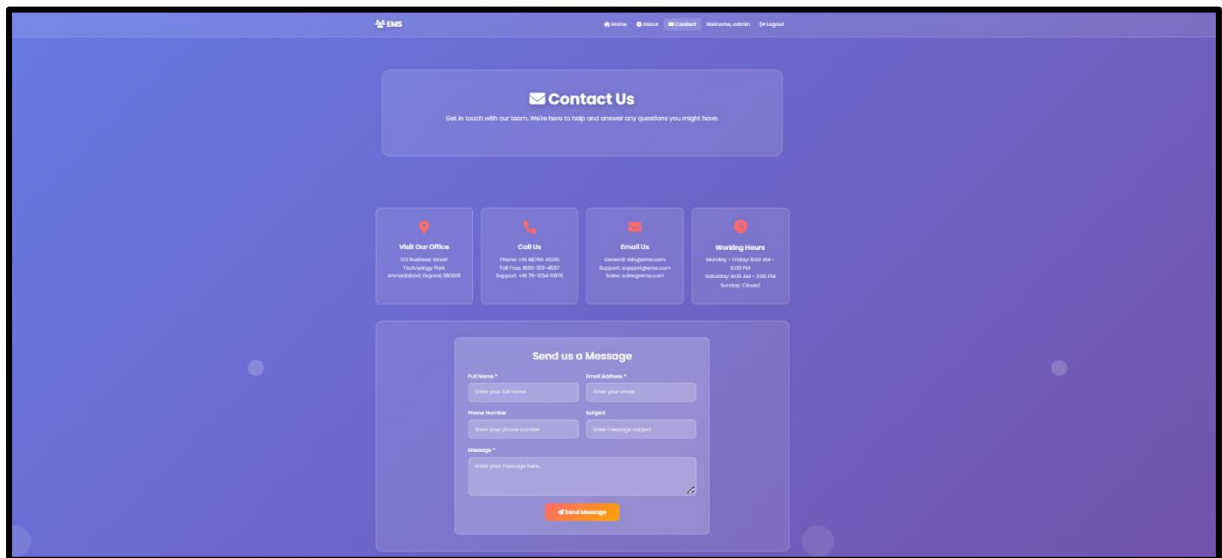
- Home Page:-



- About Us:-

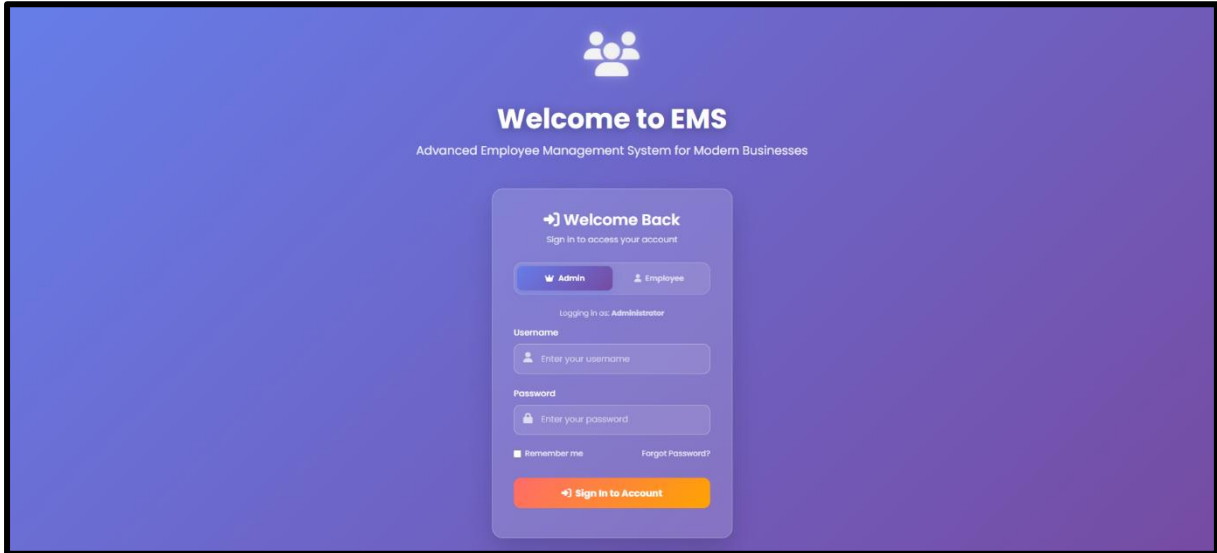


- Contact Us:-

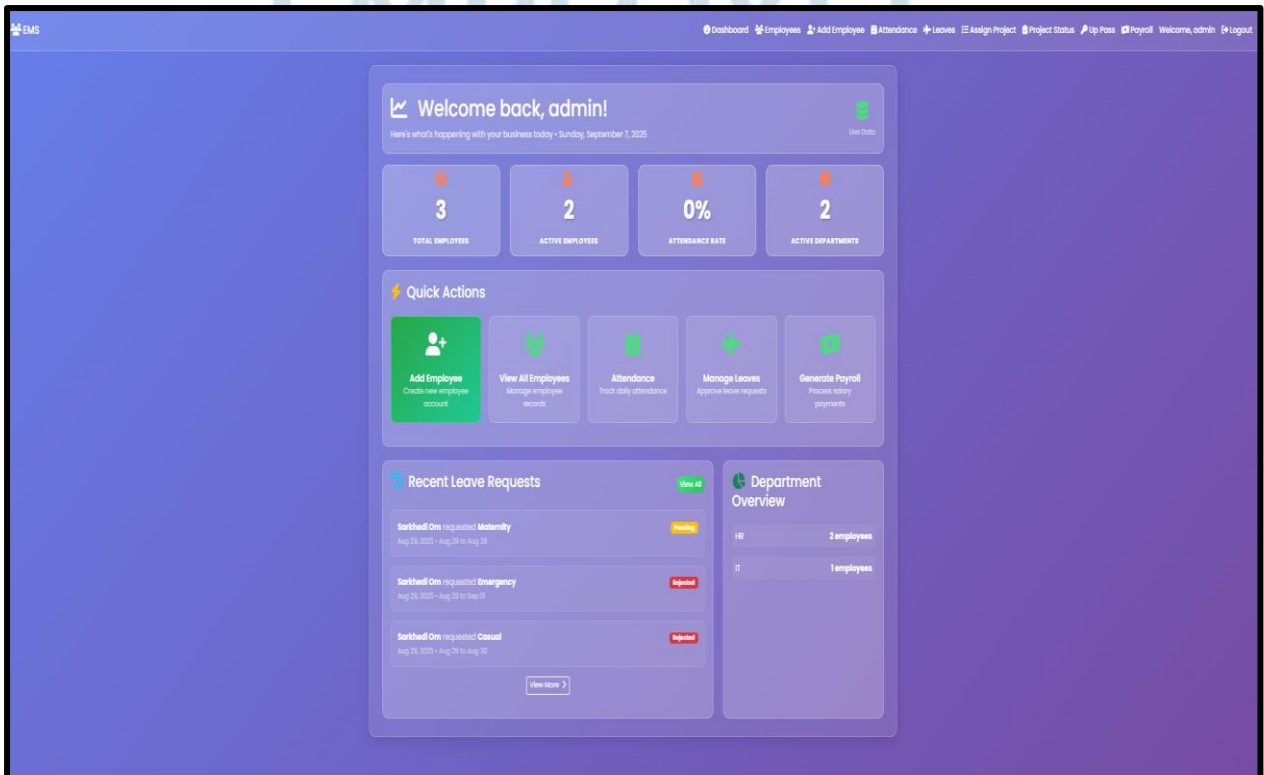


⚙️ Admin Side Screenshots ⚙️

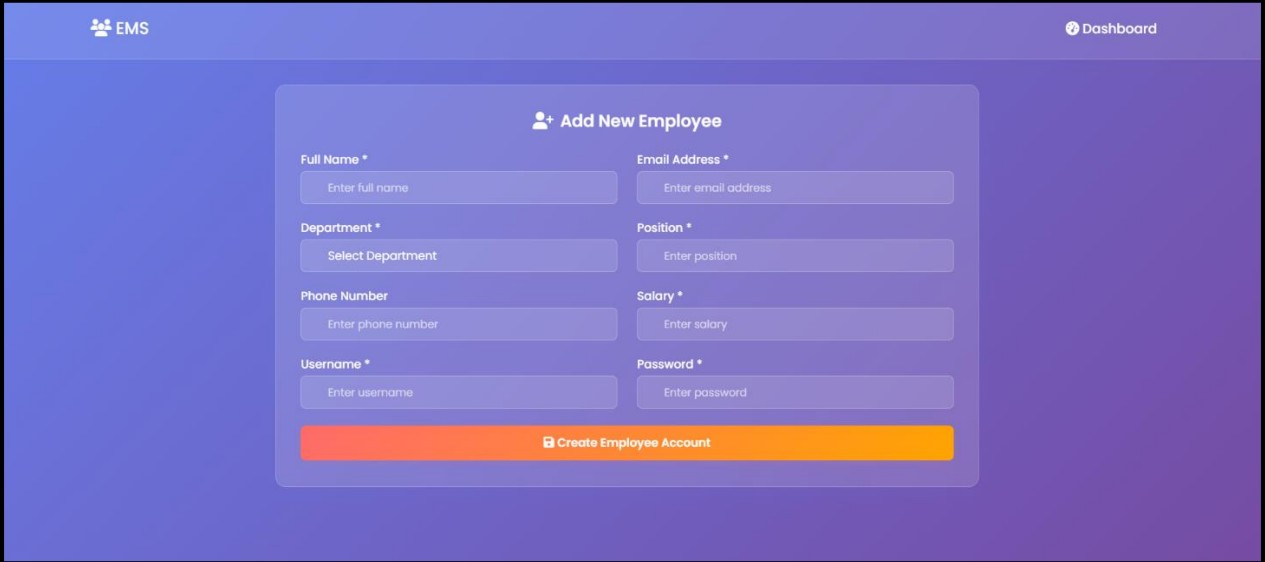
- Admin Login:-



- Home Page:-



- Add Employee:-



EMS Dashboard

Add New Employee

Full Name *
Enter full name

Email Address *
Enter email address

Department *
Select Department

Position *
Enter position

Phone Number
Enter phone number

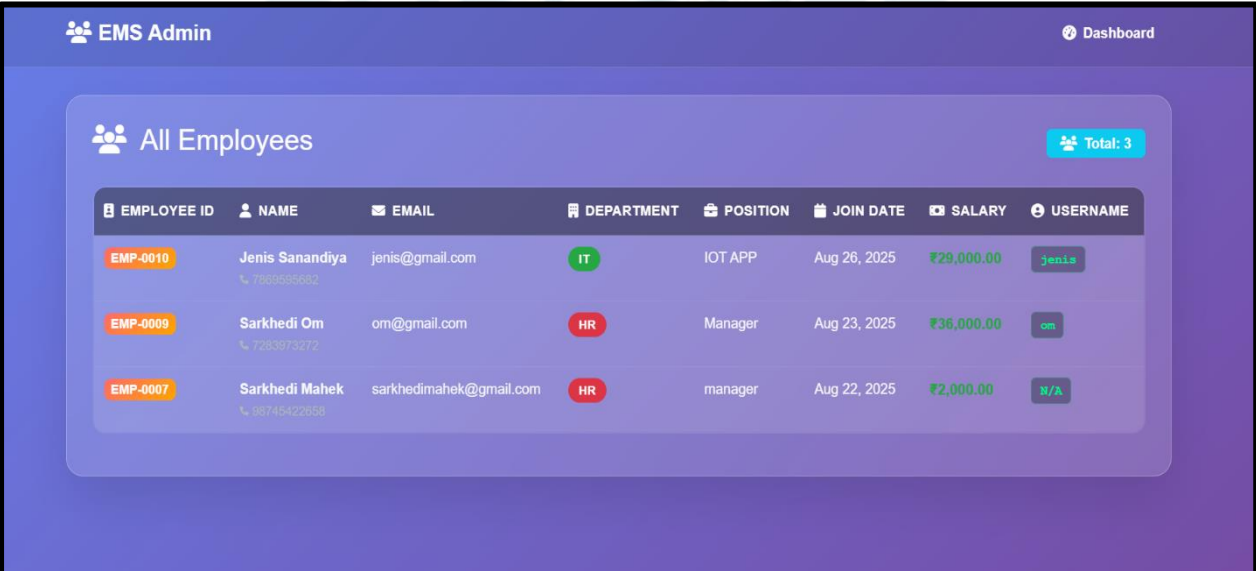
Salary *
Enter salary

Username *
Enter username

Password *
Enter password

Create Employee Account

- View Employee:-



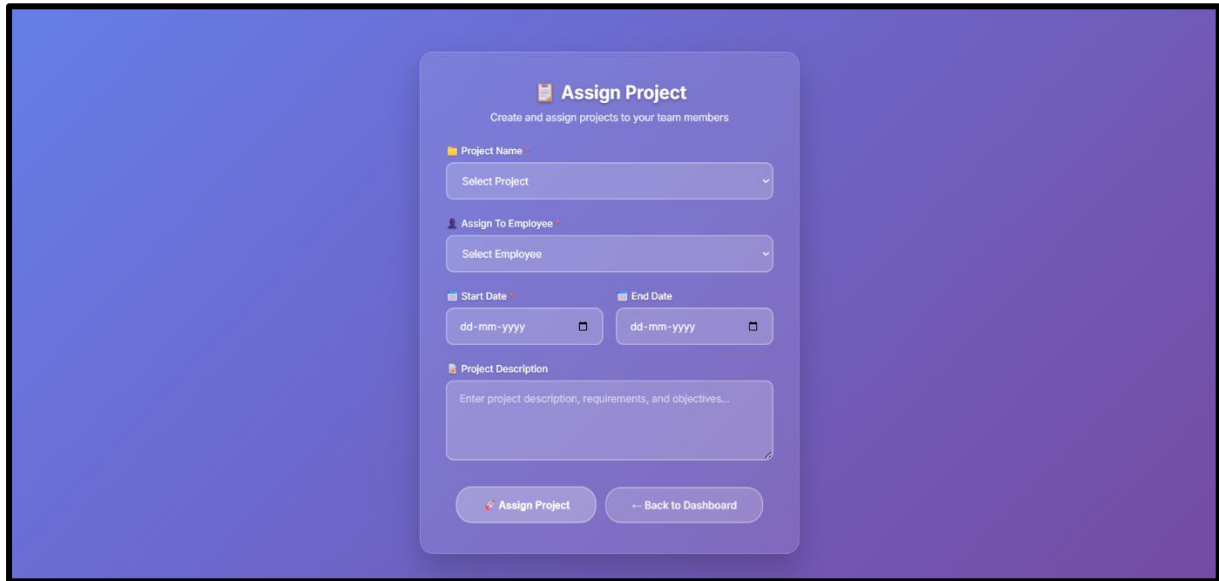
EMS Admin Dashboard

All Employees

Total: 3

EMPLOYEE ID	NAME	EMAIL	DEPARTMENT	POSITION	JOIN DATE	SALARY	USERNAME
EMP-0010	Jenis Sanandiya 7989595682	jenis@gmail.com	IT	IOT APP	Aug 26, 2025	₹29,000.00	jenis
EMP-0009	Sarkhedil Om 7283973272	om@gmail.com	HR	Manager	Aug 23, 2025	₹36,000.00	om
EMP-0007	Sarkhedil Mahek 98745422658	sarkhedimahek@gmail.com	HR	manager	Aug 22, 2025	₹2,000.00	N/A

- Assign Project:-



The 'Assign Project' form is a light purple card with a title 'Assign Project' and a subtitle 'Create and assign projects to your team members'. It contains several input fields: 'Project Name' with a dropdown menu, 'Assign To Employee' with a dropdown menu, 'Start Date' and 'End Date' with date pickers, and a 'Project Description' text area. At the bottom, there are two buttons: 'Assign Project' and 'Back to Dashboard'.

Assign Project
Create and assign projects to your team members

Project Name
Select Project

Assign To Employee
Select Employee

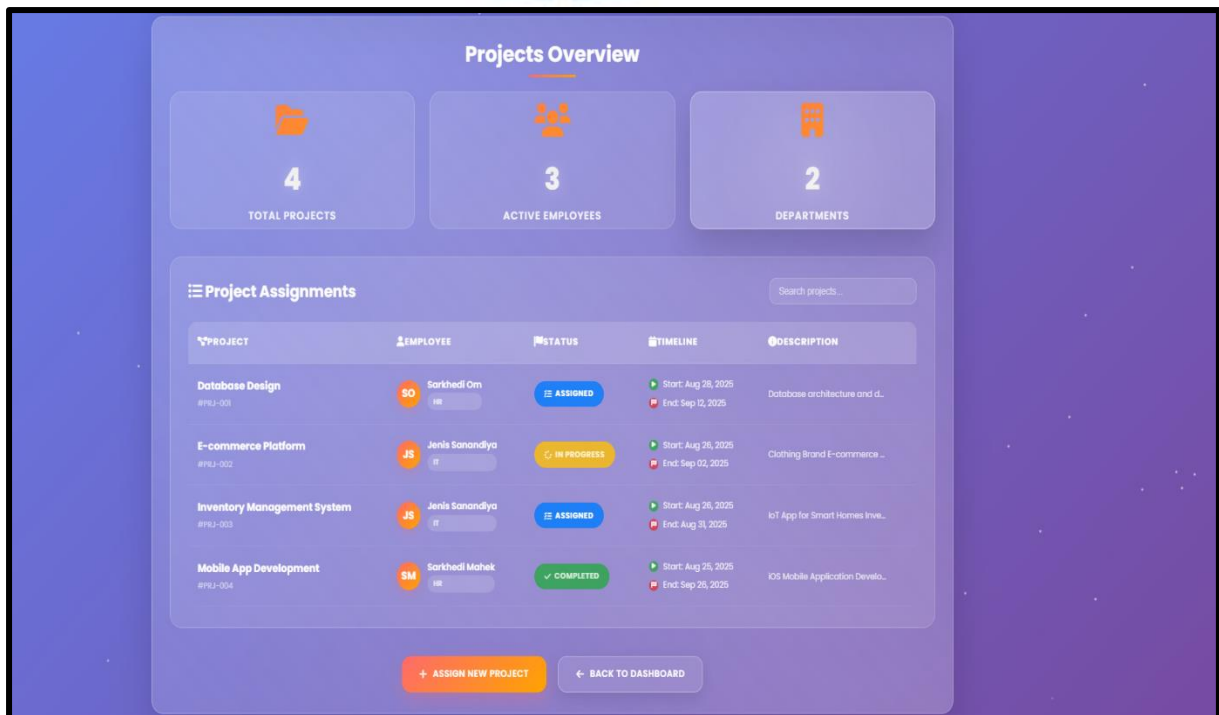
Start Date
dd-mm-yyyy

End Date
dd-mm-yyyy

Project Description
Enter project description, requirements, and objectives...

Assign Project **Back to Dashboard**

- Project Status:-



The 'Projects Overview' dashboard features three summary cards at the top: 'TOTAL PROJECTS' (4), 'ACTIVE EMPLOYEES' (3), and 'DEPARTMENTS' (2). Below these is a 'Project Assignments' table with columns for Project, Employee, Status, Timeline, and Description. The table lists four projects: 'Database Design', 'E-commerce Platform', 'Inventory Management System', and 'Mobile App Development'. Each project is assigned to an employee and has a status (Assigned, In Progress, or Completed). At the bottom, there are two buttons: 'Assign New Project' and 'Back to Dashboard'.

Projects Overview

4
TOTAL PROJECTS

3
ACTIVE EMPLOYEES

2
DEPARTMENTS

Project Assignments

PROJECT	EMPLOYEE	STATUS	TIMELINE	DESCRIPTION
Database Design #PRJ-001	SO Sarthedi Om	ASSIGNED	Start: Aug 26, 2025 End: Sep 12, 2025	Database architecture and d.
E-commerce Platform #PRJ-002	JS Jenis Sanandya	IN PROGRESS	Start: Aug 26, 2025 End: Sep 02, 2025	Clothing Brand E-commerce ..
Inventory Management System #PRJ-003	JS Jenis Sanandya	ASSIGNED	Start: Aug 26, 2025 End: Aug 31, 2025	IoT App for Smart Homes Inve..
Mobile App Development #PRJ-004	SM Sarthedi Mahak	COMPLETED	Start: Aug 26, 2025 End: Sep 25, 2025	iOS Mobile Application Develo..

Assign New Project **Back to Dashboard**

- Salary Table:-

EMS

Dashboard
Employees
Attendance
Leaves
Payroll
Welcome, admin
Logout

Generate Payroll

Employee
Select Employee

Basic Salary
Basic Salary

Allowances
0

Deductions
0

Pay Date
07-09-2025

Generate Payroll

Payroll Records

EMPLOYEE	DEPARTMENT	BASIC	+ ALLOWANCES	- DEDUCTIONS	NET SALARY	PAY DATE
Sarkhedi Om Manager	HR	₹55,000.00	₹1,000.00	₹0.00	₹56,000.00	Sep 05, 2025
Sarkhedi Mahak manager	HR	₹15,000.00	₹3,600.00	₹1,200.00	₹17,400.00	Aug 22, 2025

- Employee Leave:-

EMS

Dashboard
Employees

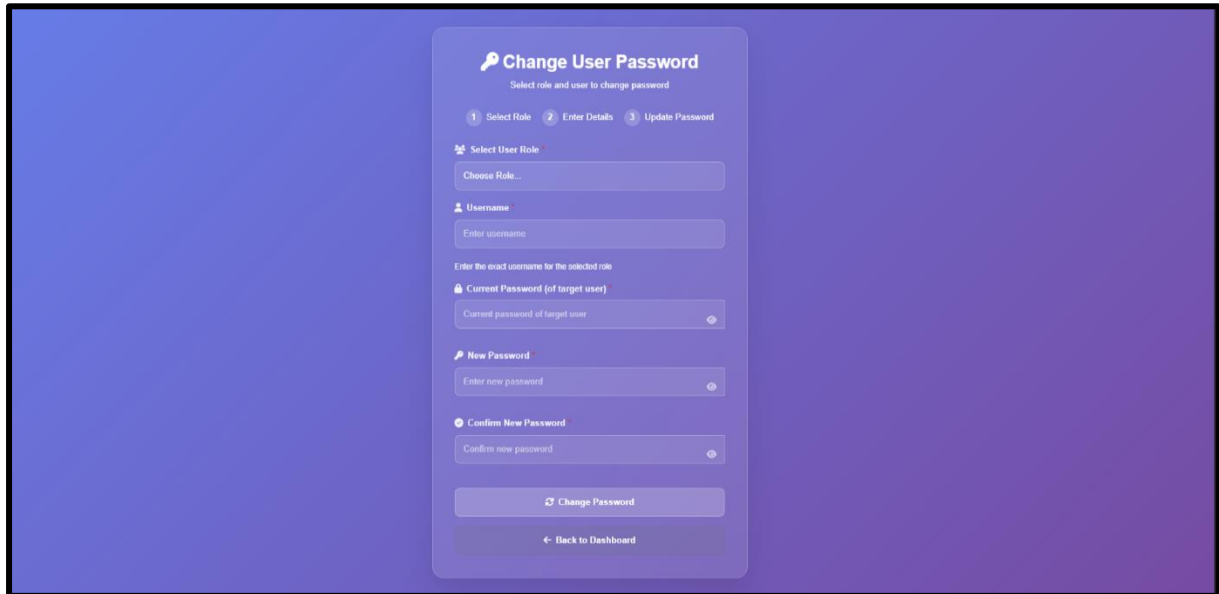
Leave Management

+ Add New Leave Request

Select Employee
Leave Type
dd-mm-yy
dd-mm-yy
Reason
Add

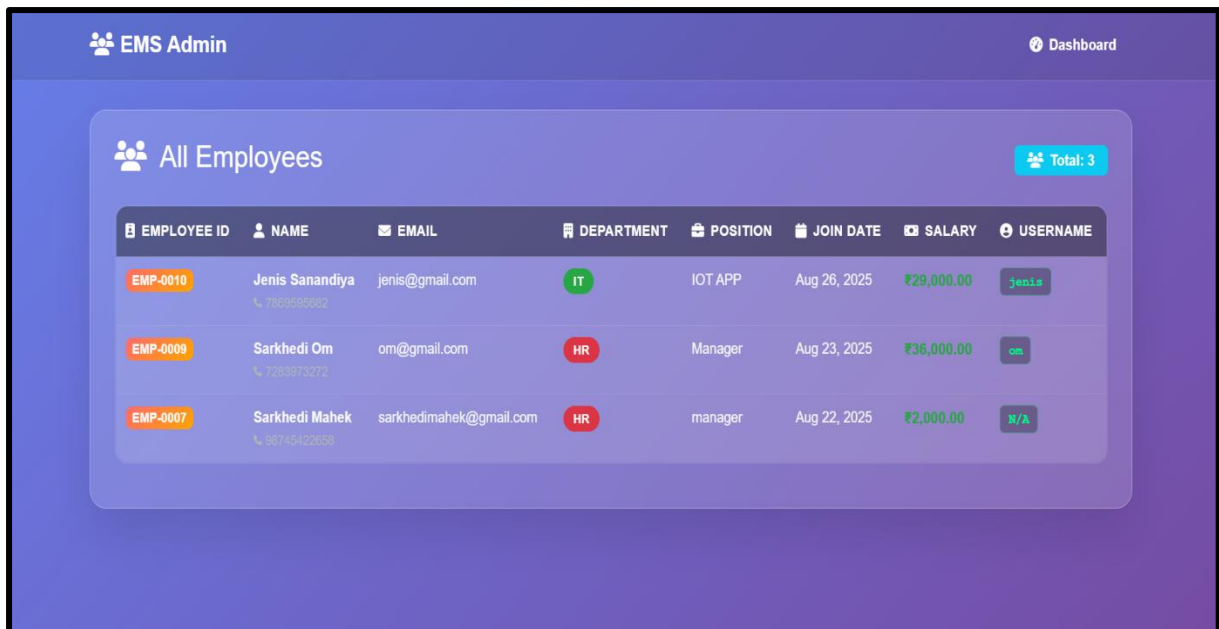
Employee	Type	From	To	Reason	Status	Applied	Actions
Sarkhedi Om	Maternity	Aug 29, 2025	Aug 29, 2025		Pending	Aug 29, 2025	✓ ✕
Sarkhedi Om	Emergency	Aug 29, 2025	Sep 01, 2025		Rejected	Aug 29, 2025	No Action
Sarkhedi Om	Casual	Aug 29, 2025	Aug 30, 2025		Rejected	Aug 29, 2025	No Action
Sarkhedi Om	Annual	Aug 29, 2025	Jan 08, 2026		Pending	Aug 29, 2025	✓ ✕
Sarkhedi Om	Cacual leave	Aug 23, 2025	Aug 24, 2025		Rejected	Aug 23, 2025	No Action
Sarkhedi Mahak	Sick	Aug 22, 2025	Aug 23, 2025	etc	Approved	Aug 22, 2025	No Action

- Update Password:-



The image shows a 'Change User Password' form with a purple gradient background. The form is titled 'Change User Password' and includes a subtitle 'Select role and user to change password'. It has three steps: 1. Select Role, 2. Enter Details, and 3. Update Password. The first step is active. The form contains the following fields: 'Select User Role' (a dropdown menu with 'Choose Role...' selected), 'Username' (a text input field with 'Enter username' placeholder), 'Current Password (of target user)' (a password input field with 'Current password of target user' placeholder), 'New Password' (a password input field with 'Enter new password' placeholder), and 'Confirm New Password' (a password input field with 'Confirm new password' placeholder). There are two buttons at the bottom: 'Change Password' and 'Back to Dashboard'.

- Employees:-

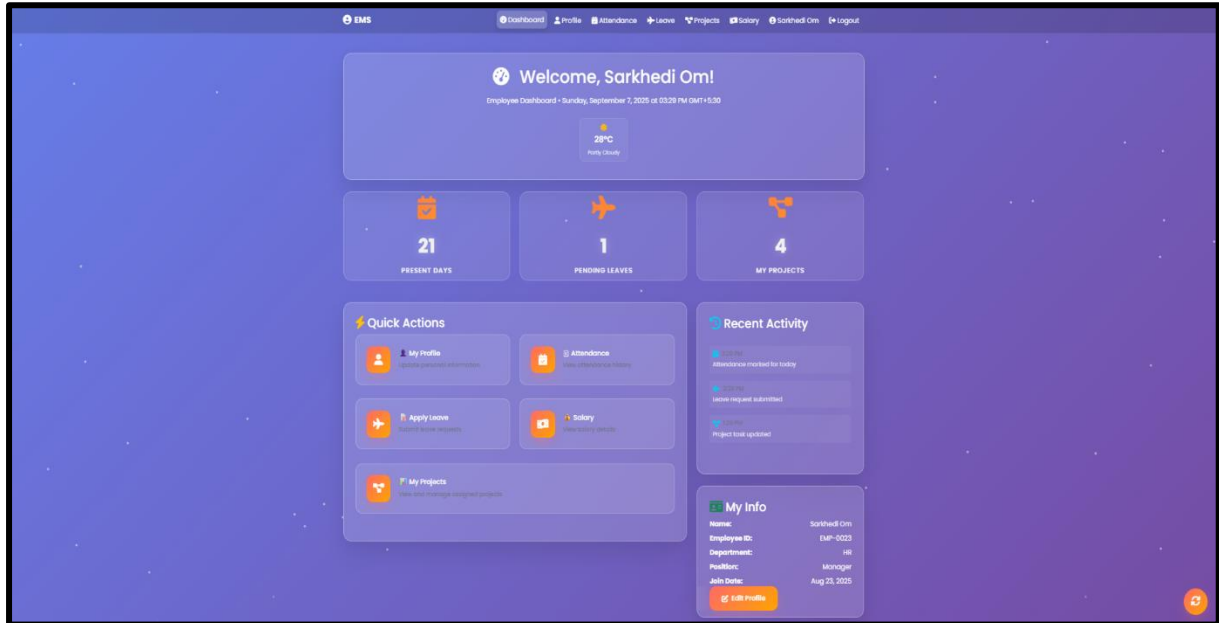


The image shows the 'EMS Admin' dashboard. At the top, there is a header with 'EMS Admin' on the left and 'Dashboard' on the right. Below the header, there is a section titled 'All Employees' with a 'Total: 3' badge. Below this, there is a table with the following columns: EMPLOYEE ID, NAME, EMAIL, DEPARTMENT, POSITION, JOIN DATE, SALARY, and USERNAME. The table contains three rows of employee data.

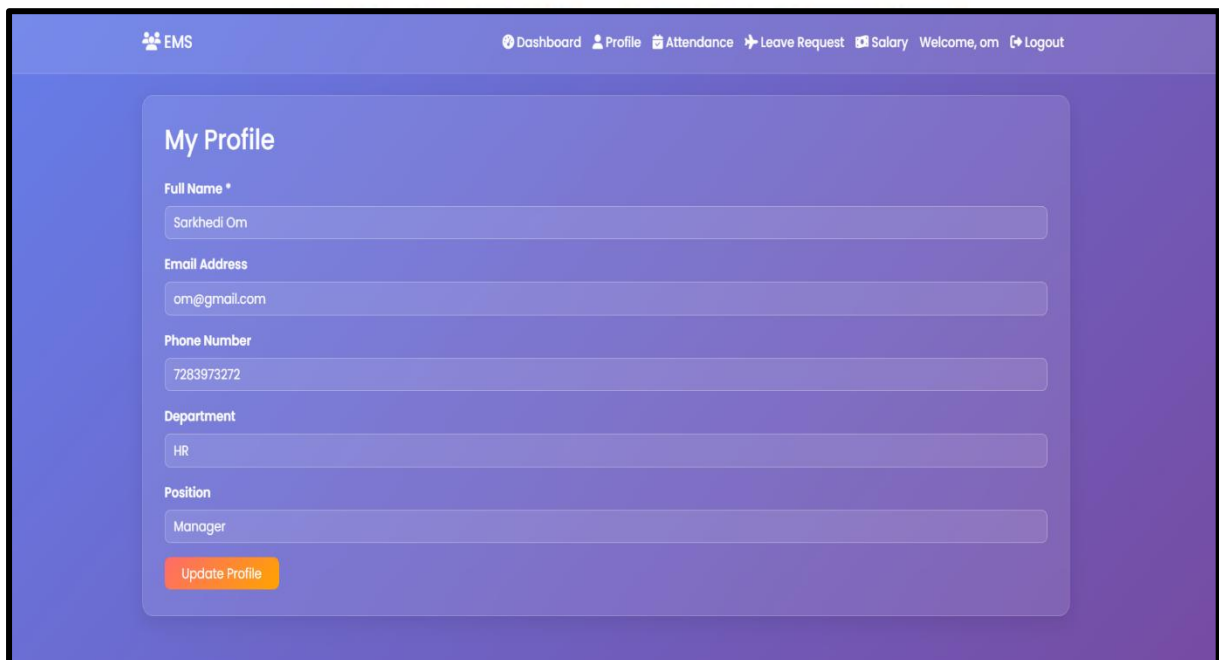
EMPLOYEE ID	NAME	EMAIL	DEPARTMENT	POSITION	JOIN DATE	SALARY	USERNAME
EMP-0010	Jenis Sanandiya 7889595082	jenis@gmail.com	IT	IOT APP	Aug 26, 2025	₹29,000.00	jenis
EMP-0009	Sarkhedi Om 7283973272	om@gmail.com	HR	Manager	Aug 23, 2025	₹36,000.00	om
EMP-0007	Sarkhedi Mahek 98745422658	sarkhedimahek@gmail.com	HR	manager	Aug 22, 2025	₹2,000.00	N/A

Employee Side Screenshots

- Home Page:-



- My Profile :-



- My Project :-

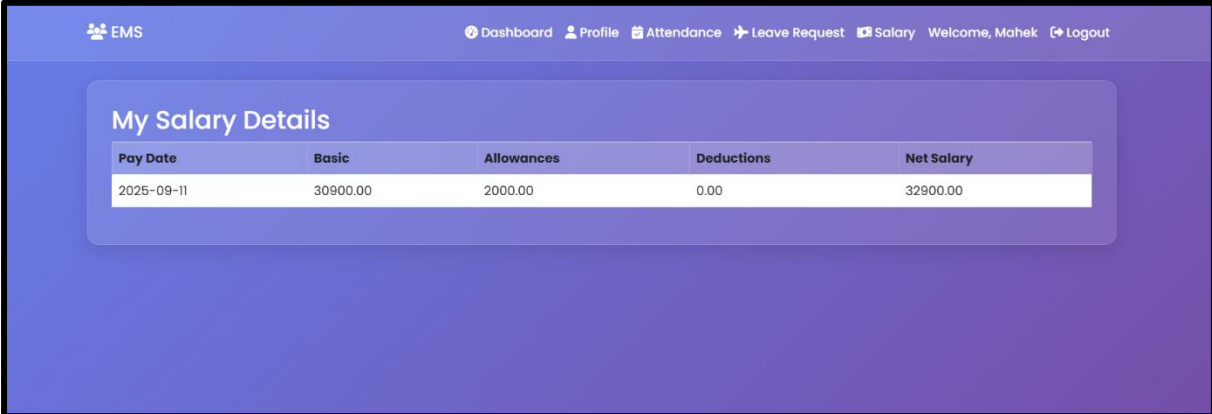
The screenshot shows the 'My Project Dashboard' of an 'Employee Portal'. The header includes 'Employee Portal' and navigation links for 'Dashboard', 'My Projects', and 'Logout'. The dashboard features a welcome message 'Welcome back, Sarkhedi Om!' and four summary cards: 'Sarkhedi Om' (Employee Name), '23' (Employee ID), 'HR' (Department), and '1' (Total Projects). Below these is a section titled 'My Assigned Projects (1)' containing a table with project details.

Project Name	Start Date	End Date	Current Status	Last Updated	Previous Comments	Quick Update
Database Design Not...	Aug 28, 2025	Sep 12, 2025	On Hold	Aug 28, 21:24	No comments	<div><input type="checkbox"/> On Hold</div> <div>Update Status</div>

- Apply Leave:-

The screenshot displays the 'Apply for Leave' form within an 'EMS' (Employee Management System) interface. The header shows navigation links for 'Dashboard', 'Profile', 'Attendance', 'Leave Request', 'Salary', and a welcome message 'Welcome, om' with a 'Logout' link. The form itself includes a 'Select Leave Type' dropdown, two date input fields with 'dd-mm-yyyy' placeholders, and a green 'Submit' button.

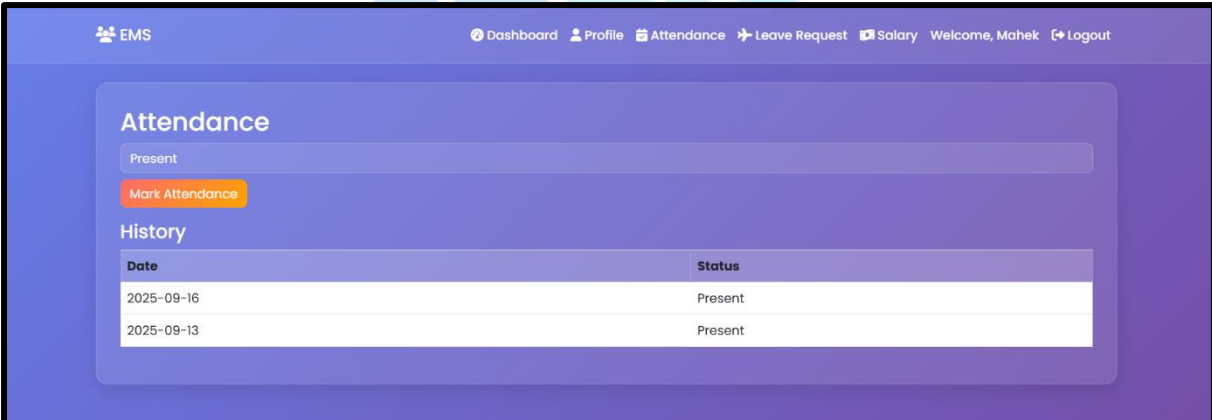
- Salary :-



The screenshot displays the 'My Salary Details' section of the Employee Management System. The page has a purple header with navigation links: Dashboard, Profile, Attendance, Leave Request, Salary, Welcome, Mahek, and Logout. The main content area features a table with the following data:

Pay Date	Basic	Allowances	Deductions	Net Salary
2025-09-11	30900.00	2000.00	0.00	32900.00

- Attendance:-



The screenshot displays the 'Attendance' section of the Employee Management System. The page has a purple header with navigation links: Dashboard, Profile, Attendance, Leave Request, Salary, Welcome, Mahek, and Logout. The main content area features a 'Present' status indicator, a 'Mark Attendance' button, and a 'History' table with the following data:

Date	Status
2025-09-16	Present
2025-09-13	Present

Code Explanation

```
<?php
session_start();
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Employee Management System</title>
  <link href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.3.0/css/bootstrap.min.css" rel="stylesheet">
  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css" rel="stylesheet">
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap" rel="stylesheet">

  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    body {
      font-family: 'Poppins', sans-serif;
      background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
      min-height: 100vh;
      overflow-x: hidden;
      position: relative;
    }

    /* Animated background particles */
    body::before {
      content: '';
      position: absolute;
      top: 0;
      left: 0;
      width: 100%;
      height: 100%;
      background: url('data:image/svg+xml;<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 100 100"><circle cx="20" cy="20" r="2" fill="rgba(255,255,255,0.1)></svg>');
    }
  </style>
</head>
```

```
<body>
  <nav class="navbar navbar-expand-lg" id="navbar">
    <div class="container">
      <a class="navbar-brand" href="index.php">
        <i class="fas fa-users"></i> EMS
      </a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" style="border: 1px solid rgba(255,255,255,0.3);">
        <span style="color: white;"><i class="fas fa-bars"></i></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav me-auto">
          <li class="nav-item">
            <a class="nav-link" href="index.php">
              <i class="fas fa-home"></i> Home
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="about.php">
              <i class="fas fa-info-circle"></i> About
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="contact.php">
              <i class="fas fa-envelope"></i> Contact
            </a>
          </li>
        </ul>

        <ul class="navbar-nav ms-auto">
          <?php if(isset($_SESSION['user_id'])): ?>
            <!-- Logged In User Navigation -->
            <?php if($_SESSION['role'] === 'admin'): ?>
              <li class="nav-item">
                <a class="nav-link" href="admin/dashboard.php">
                  <i class="fas fa-tachometer-alt"></i> Admin Dashboard
                </a>
              </li>
            </?>
          </?>
        </ul>
      </div>
    </div>
  </nav>
```



```

<body>
  <div class="page-container">
    <section class="main-content">
      <div class="container">
        <div class="content-container">
          <h2 style="color: white; text-align: center; margin-bottom: 30px; font-weight: 600;">
            Send us a Message
          </h2>

          <?php if ($success): ?>
            <div class="alert alert-success">
              <i class="fas fa-check-circle"></i> <?= $success ?>
            </div>
          <?php endif; ?>

          <?php if ($error): ?>
            <div class="alert alert-danger">
              <i class="fas fa-exclamation-circle"></i> <?= $error ?>
            </div>
          <?php endif; ?>

          <form method="POST" id="contactForm">
            <div class="row">
              <div class="col-md-6">
                <div class="form-group">
                  <label class="form-label">Full Name *</label>
                  <input type="text"
                    name="name"
                    class="form-control"
                    placeholder="Enter your full name"
                    value="<?= htmlspecialchars($name ?? '') ?>"
                    required>
                </div>
              </div>
              <div class="col-md-6">
                <div class="form-group">
                  <label class="form-label">Email Address *</label>

```

```

<body>
  <footer class="footer">
    <div class="container">
      <div class="row footer-content">
        <div class="col-lg-4 col-md-6 mb-4">
          <div class="footer-section">
            <div class="footer-logo">
              <i class="fas fa-users"></i> EMS
            </div>
            <p>Employee Management System - The most comprehensive solution for modern HR management. Streamline your workforce with cutting-edge technology.</p>
            <div class="social-links">
              <a href="#" class="social-link">
                <i class="fab fa-facebook-f"></i>
              </a>
              <a href="#" class="social-link">
                <i class="fab fa-twitter"></i>
              </a>
              <a href="#" class="social-link">
                <i class="fab fa-linkedin-in"></i>
              </a>
              <a href="#" class="social-link">
                <i class="fab fa-instagram"></i>
              </a>
            </div>
          </div>
        </div>
        <div class="col-lg-2 col-md-6 mb-4">
          <div class="footer-section">
            <h5>Quick Links</h5>
            <ul>
              <li><a href="index.php"><i class="fas fa-home"></i> Home</a></li>
              <li><a href="about.php"><i class="fas fa-info-circle"></i> About Us</a></li>
              <li><a href="contact.php"><i class="fas fa-envelope"></i> Contact</a></li>
              <?php if(!isset($_SESSION['user_id'])): ?>
              <!-- <li><a href="register.php"><i class="fas fa-user-plus"></i> Join Our Team</a></li> -->
              <li><a href="login.php"><i class="fas fa-sign-in-alt"></i> Login</a></li>
              <?php endif; ?>
            </ul>
          </div>
        </div>
      </div>
    </div>

```

Testing

Testing is the process of evaluating something to determine if it meets certain objectives or to identify problems.

Testing involves a number of activities, including: planning, designing, executing, and evaluating.

The goal of testing is to identify and fix any issues, errors, or weaknesses before the project is launched. Testing can be performed at different levels, such as individual components or integrated systems.

- Testing Box :

1. White Box
2. Black Box
3. Gray Box

1. White Box :

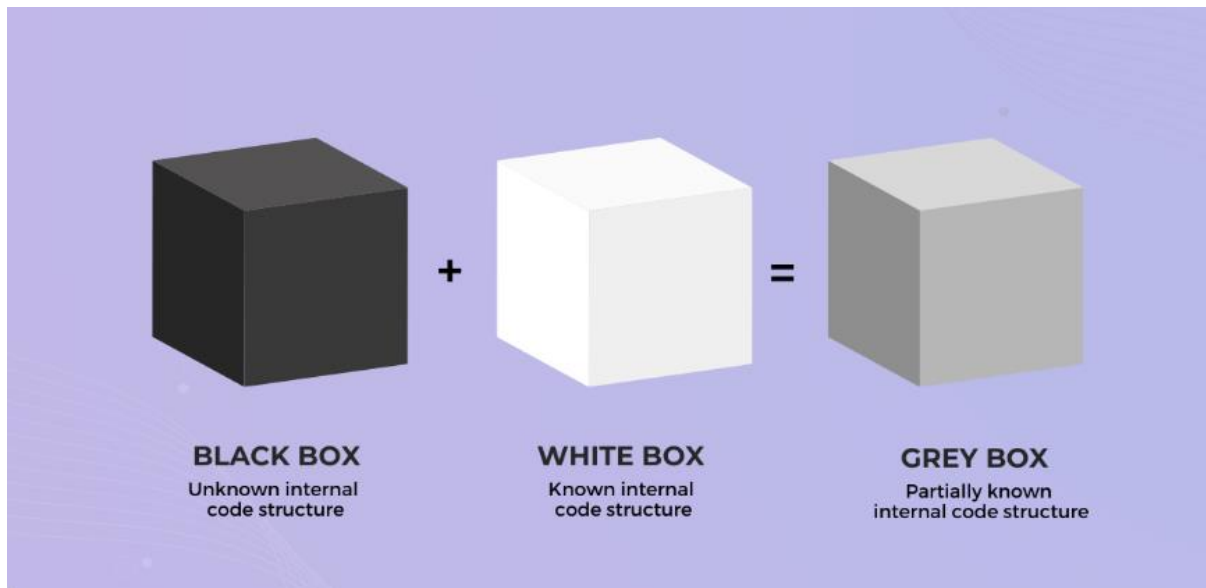
White box testing is a form of application testing that provides the tester with complete knowledge of the application being tested, including access to source code and design documents.

2. Black Box :

Black box testing are two different approaches to testing software, which differ in the level of access the tester has to the software and the focus of the testing:

3. Gray Box :

Gray box testing is a software testing technique that combines elements of black box and white box testing



Test Case ID	Module	Input Example	Expected Output	Actual Output	Result
TC-01	Login	Username=admin Password=123	Redirect to Admin Dashboard	Redirect Successful	Pass
TC-02	Login	Username=wrong Password=111	Display "Invalid Username/Password"	Message Displayed	Pass
TC-03	Add Employee	Name=Mahek Email= mahek@test.com , Salary=25000	"Employee Added Successfully" & record in DB	Same Output	Pass
TC-04	Leave Request	Employee=Unnat Date=12/09/2025, Reason=Sick Leave	"Leave Request Submitted"	Same Output	Pass
TC-05	Salary Report	Employee=Mahek	Display Salary Details	Same Output	Pass

Future-Scope

The **future scope** of this project to help most unemployed persons and help them to manage a employee.

The purpose of an employee management system is to help improve workforce productivity, identify ways to engage and retain talent, and alleviate administrative burdens for HR professionals.

Achieving greater efficiency through the use of technology can also help control costs and minimize compliance risks.

Bibliography

1. Php Manual.
2. Professional PHP
3. getbootstrap.com
4. www.google.com

This documentation is created by



Sarkhedi Mahek S. & Metaliya Unnat G.

CD/DVD

Below items are included in CD/DVD.

- Project
- Database
- Documentation
- Screenshots

Thank You