

# Ahmedabad University

**School of Engineering and Applied Sciences**

**CSE300: SOFTWARE ENGINEERING**

## Attendance System For Human Resource Department **Project Report**

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## **Table of Contents**

1) Acknowledgement.....	03
2) Introduction.....	04
3) Functional Requirements.....	04
4) Non Functional Requirements.....	04
5) External Interface Requirements.....	05
6) Requirements Traceability Matrix.....	06
7) Design Document.....	07
8) Required Diagrams.....	40
9) Test Cases & Test Plan.....	45
10) Meeting Documentation.....	49

### **Acknowledgement**

The reason why this project got completed on time with excellent implementation and operation consists of many helping hands and efforts of supportive observers.

We are grateful to Prof. Khushru Doctor for providing us with precise guidelines. The project-building process made us learn the international standards for the documentation and presentation of the projects. The deadlines were set relative to the task and its volume.

Ms. Ridima Verma, our teaching assistant helped us in various aspects during the project. She made us aware of various standards to be followed for the project.

We owe deep gratitude to all the faculties for building our career base with awareness and understanding of many computer programming languages. The purpose of this project is solely maximizing the optimistic utilization of teachings and guidance offered by the faculties of the School of Engineering and Applied Sciences who always encouraged, engaged, and exerted efforts towards making our present information technological wisdom and building our future for a prosperous career.

## **Abstract**

We want to minimize the problems faced by the Human Resource Manager in organizations. Sometimes in huge organizations there occurs the problem of people management which leads to delays in salaries. We will try to overcome this problem by designing an application which will be able to manage the salaries of employees as well as track their leaves.

This system facilitates the HR manager to obtain pertinent information about the employee. This will help them to maintain a structured system for all the kinds of leaves an employee can get and the employee can also track their leaves from it.

## **Model**

We will use Agile methodology for our project. We believe that this system will require lots of changes in the future with newer technologies and the size of employees being increased or decreased. So with Agile methodology, we can quickly adapt to these changes and will be able to deliver high-quality products. We will also be able to act on the feedback received very quickly because of the agile methodology.

## **REQUIREMENTS UNDERSTANDING DOCUMENT**

### **1. INTRODUCTION**

#### **1.1 Purpose:**

This document's primary goal is to give the human resources department a thorough explanation of the attendance system. It will describe the functions and characteristics of the system, its interfaces, what it can perform, the limitations that must be met, and how the system will respond to outside stimuli. Both the stakeholders and the system's developers should read this paper.

#### **1.2 Scope of the Project:**

A company is made up of several departments and various unique business procedures. The first thing that comes to mind is the need to integrate all departments and their procedures in order to achieve location independence and eliminate execution uncertainty. But all of a sudden, it becomes impractical for any firm to have reserves sufficient to cover all needs, necessitating the integration of key components. The integration of a system that satisfies apex demands is necessary to manage the firm's mains since the company cannot function for a long time without proper financial monitoring and personnel. An accountant will oversee staff wages. The manager of human resources can also add daily responsibilities and approve or deny leaves.

### **1.3 Definition of the Project:**

The system consists of modules that are solely accountable to each stakeholder and execute the needs of monitoring staff attendance, compensation, and leaves.

### **1.4 References:**

Software Engineering: A Practitioner's Approach by Roger S. Pressman

[https://www.mlsu.ac.in/econtents/16\\_EBOOK-7th\\_ed\\_software\\_engineering\\_a\\_practitioners\\_approach\\_by\\_roger\\_s.\\_pressman\\_.pdf](https://www.mlsu.ac.in/econtents/16_EBOOK-7th_ed_software_engineering_a_practitioners_approach_by_roger_s._pressman_.pdf)

For Test Cases: A website StudentProjects

<https://studentprojectguide.com/project-report/software-testing/test-cases-for-employee-payroll/>

## **2. FUNCTIONAL REQUIREMENTS**

### **2.1 Stakeholder-wise Requirements**

- Human Resource Manager:

The Human Resource Manager should manage the employees of the company by taking note of their attendance, and by checking their shift timings as well. The HR Manager can approve or reject the leaves proposed by the accountant or employee for the upcoming days. He or she can also post important announcements that need to be delivered to the employees or accountants through the add timeline functionality.

- Accountant:

An Accountant should be able to evaluate the employee's salary and provide it accordingly correctly. Also, he can provide timely salary slips to the employee. He/She can check the updates on the timeline as well.

- Employee:

The Employee should be able to check the attendance correctly and can request a leave of absence. Moreover, he or she can reject a leave request if leave is not required. Also, the employee can see his or her Salary Slip, and timeline.

### **3. NON-FUNCTIONAL REQUIREMENTS**

#### **3.1 Security:**

- Only company employees should be able to access password-protected web pages provided by the system. Security is responsible for the ability of the system to reduce the likelihood of malicious or accidental actions and the possibility of theft or loss of information

Example of attributes in the working system:

- (a) Restriction of user access by authorization or authentication.
- (b) Password encryption..

#### **3.2 Supportability:**

- The term "supportability" describes the system's intrinsic qualities and the components of the enabling system that enable effective and efficient sustainment (including maintenance and other support services) during the course of the system's life cycle. Without extensive reengineering, the system ought to accommodate new employees' records.

#### **3.3 Usability:**

It is a gauge of how simple it is for people to operate the system. Although it is challenging to assess and evaluate, it may be done using the following criteria:

- Amount of time required to get used to the system is very less.
- Delivery of proper and human-understandable error messages is done if an error occurs during functioning.

- Quick access is provided to the main functionalities of the attendance system

### **3.4 Maintainability:**

- The administrators and manager in charge are responsible for maintaining accurate schedules for working days. The changes are easily accommodated in the database and can easily be restored as well during system failure.

## **4. EXTERNAL INTERFACE REQUIREMENTS**

### **4.1 User Interfaces:**

Coding language: ASP.Net, C#

System representation: UML 2.5

Database: SQL database 4.0

Screen Designing: Figma

### **4.2 Hardware Interfaces:**

Windows

A browser which supports HTML, CSS, and Javascript.

### **4.3 Software Interface:**

<b>Software Used</b>	<b>Description</b>
Operating System	We have chosen the Windows operating system for its best support and user-friendliness.
Database	To save the records related to employees, HR Manager, and the accountant.
ASP.Net	We have chosen ASP.Net for Website

	development.
--	--------------

### **Requirement Traceability Matrix:**

Sr. no	Requirement Description	Business needs, Goals, Opportunities, Objectives	Test Case	Test case status
1	To enter username and password	Get successfully logged in as employee/accountant/manager	Valid Username valid password	Pass
2	Provide valid details as per the mentioned constraints	Successfully add the new employee into the database	Entering new employee details where mobile number field is having less than or more than 10 digits and non-numeric characters	Pass
3	Provide the attendance countings	This will provide the manager with the data of attendance of a particular employee	If the attendance data is not available for the particular day, it will show no record found	Pass
4	Provide salary slip based on the attendance	Goal is to count the number of days the employee is present along with the consideration of being late or not and calculate the salary	Salary slip generation for a particular month of the year	Pass
5	Apply for a Leave	Approval/Disapproval of leave is managed	Leave request status on Manager's page	Pass

<b>6</b>	Login authentication	Successfully get into the profile if details provided are correct as per the database	Restrict user to login with the old password	<b>Pass</b>
<b>7</b>	External User can access the form	The external user can apply for the job openings if the form is open	The user should be able to access the form to apply for the job.	<b>Fail</b>
<b>8</b>	Edit/Update salary Constraints	The manager/accountant should be able to change salary constraints as per the requirement with respect to the time	Salary constraints should be an able to change as per the requirement	<b>Fail</b>
<b>9</b>	Report	Logged in user will be able to know about his/her work through report	Report of a particular month should be generated in order to know the working of a particular logged in user	<b>Fail</b>

#### **Design Document - including screen design:**

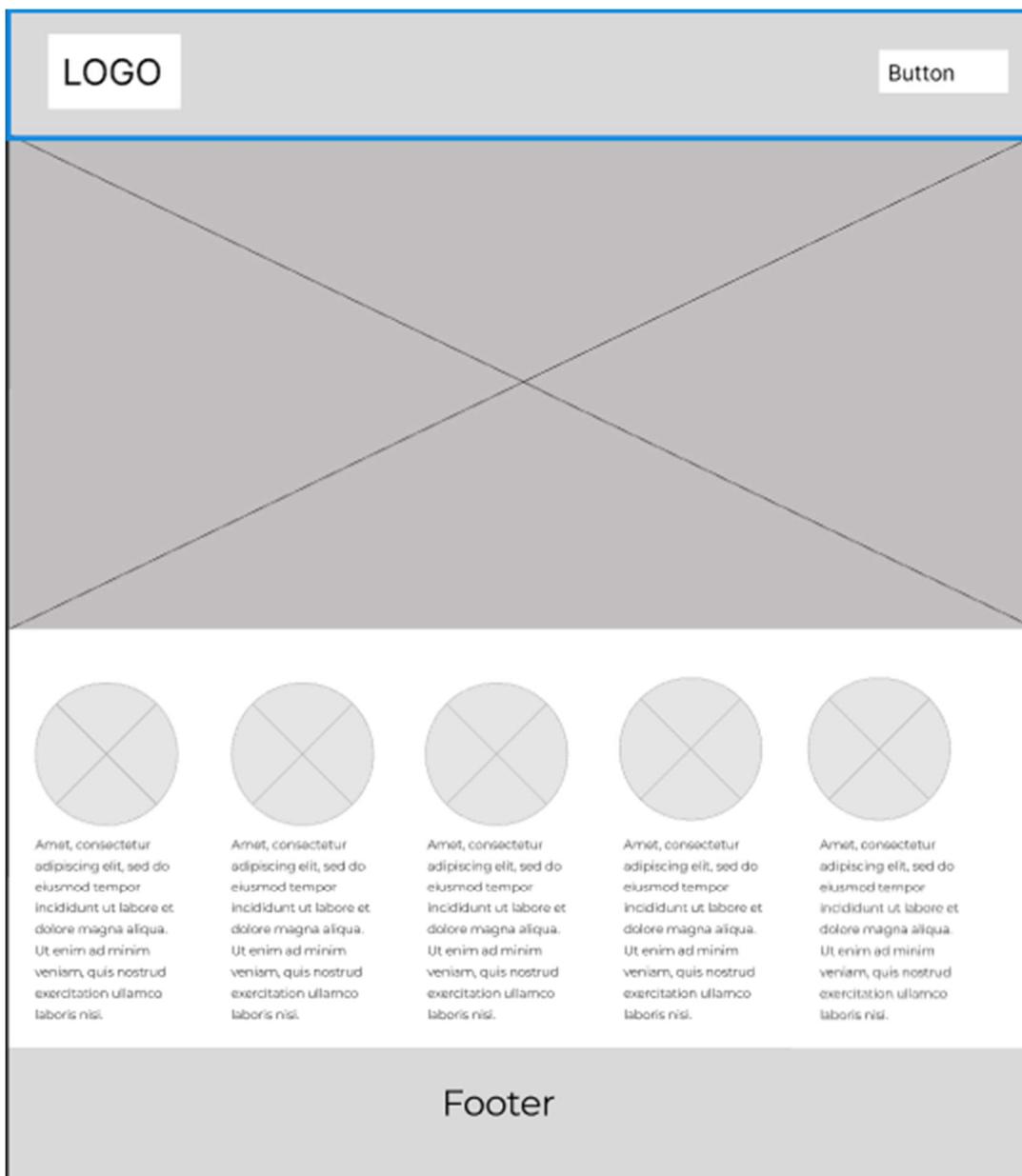
The application and software products include the following criteria while designing the software.

- Feature set or functionality
- Capacity (how many and how large are the objects it can work with) (how many and how big are the things it can work with)
- User interface type (standard Windows or Mac look & feel, totally unique)
- Customizability
- responsiveness and speed

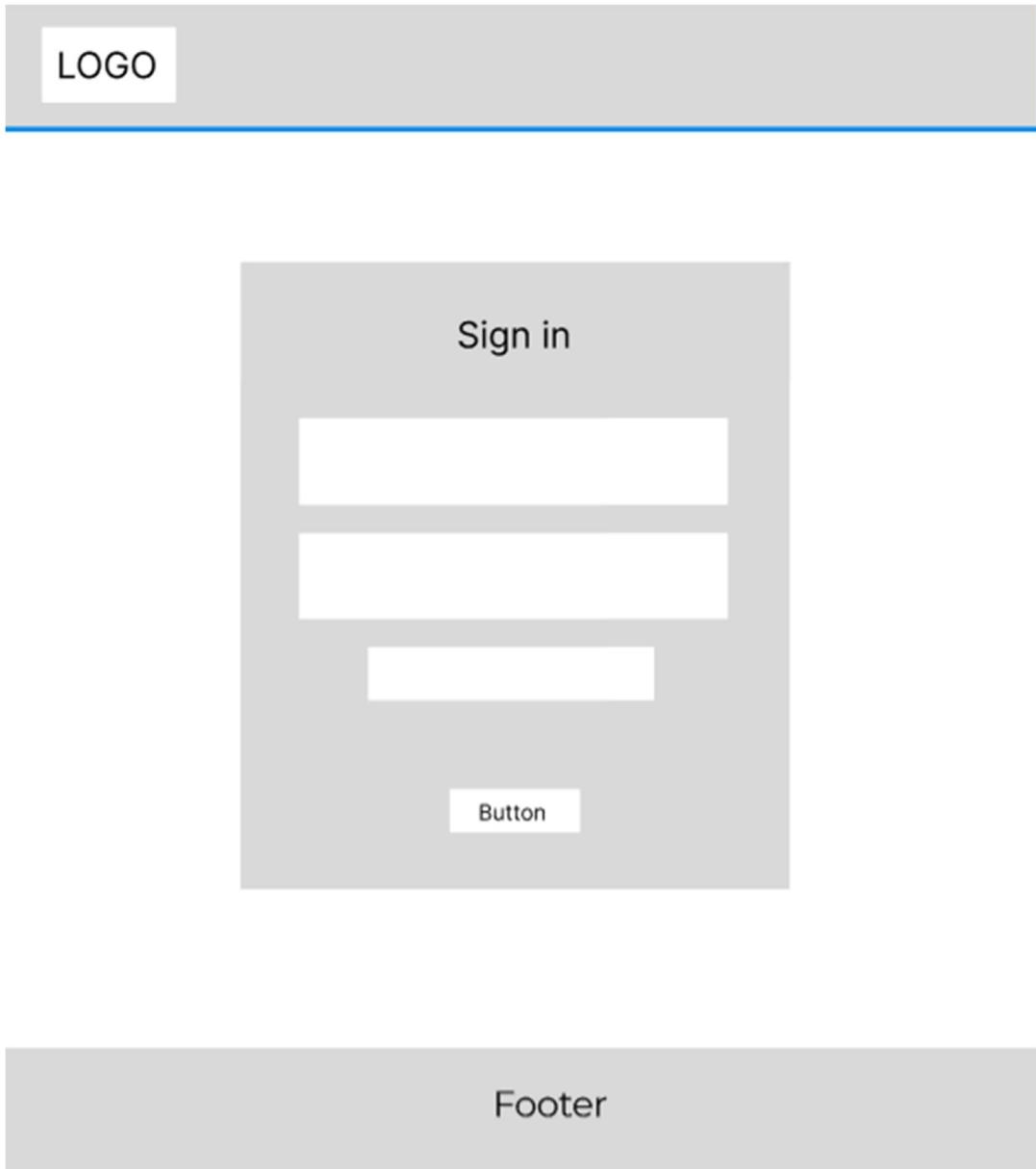
- Ability to exchange data (data import/export) with other programmes
- Error number, kind of error handling, and messages with support
- written in programming language

The following are the low fidelity screen designing which gives you the idea of the content placed on the working software:

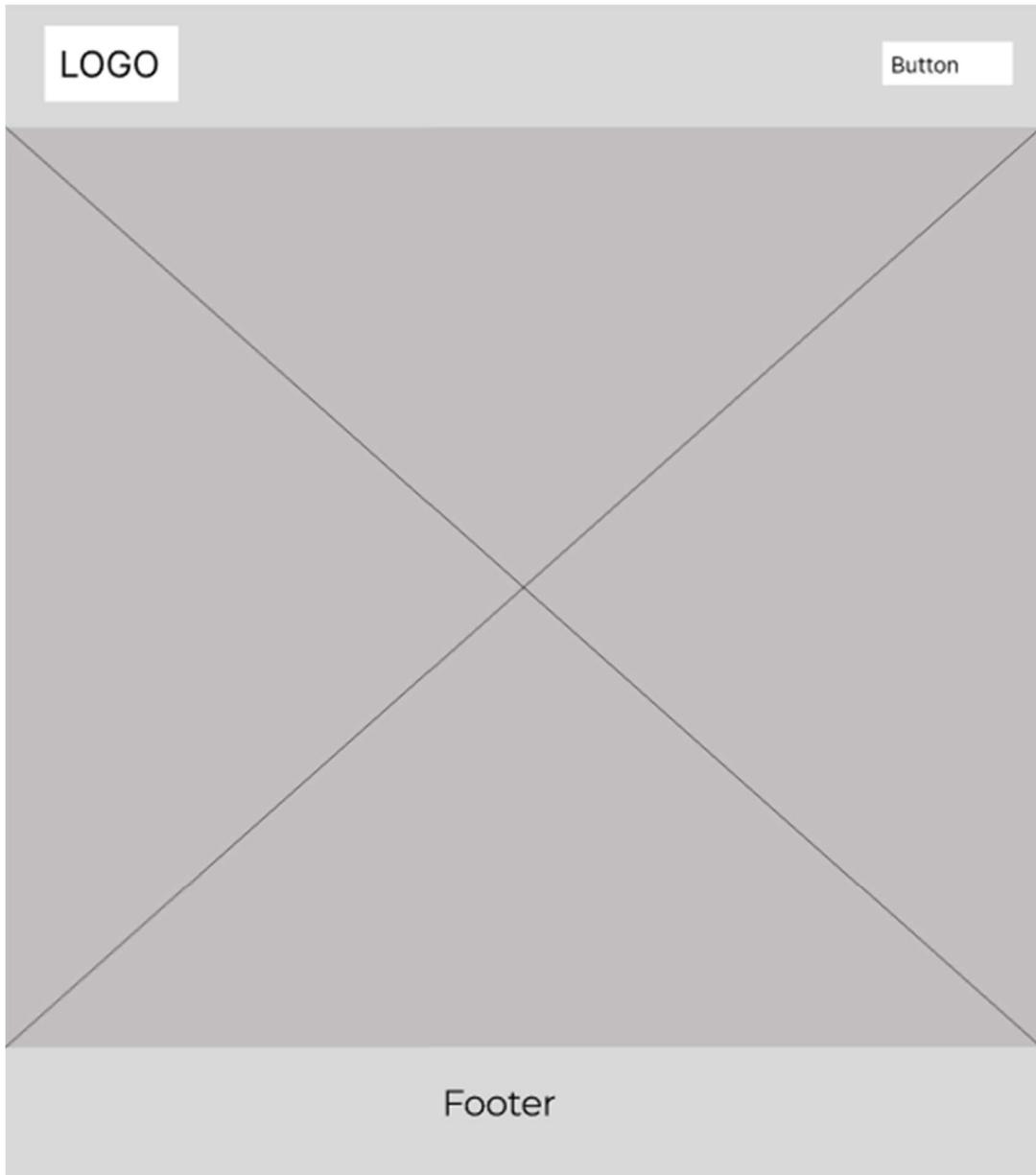
### Landing Page:



**Login Screen:**



**Gallery:**



## **About Us:**

LOGO

Button

### **Sed ut perspiciatis unde omnis**

Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem.



Amet, consectetur  
adipiscing elit, sed do  
eiusmod tempor  
incididunt ut labore et  
dolore magna aliqua.  
Ut enim ad minim  
veniam, quis nostrud  
exercitation ullamco  
laboris nisi.



Amet, consectetur  
adipiscing elit, sed do  
eiusmod tempor  
incididunt ut labore et  
dolore magna aliqua.  
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veniam, quis nostrud  
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laboris nisi.



Amet, consectetur  
adipiscing elit, sed do  
eiusmod tempor  
incididunt ut labore et  
dolore magna aliqua.  
Ut enim ad minim  
veniam, quis nostrud  
exercitation ullamco  
laboris nisi.

Footer

## **Manager Attendance:**

The diagram illustrates a mobile application's user interface. At the top, there is a header bar with a "LOGO" placeholder on the left and a "Button" placeholder on the right. Below the header is a large, empty circular area labeled "Attendance Chart". To the left of this chart, there is a text block containing placeholder Latin text: "Amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi.". At the bottom of the screen is a footer bar labeled "Footer".

## **Timeline:**

LOGO

Button

Button

Button

Button

Footer

**Add to Timeline:**

LOGO

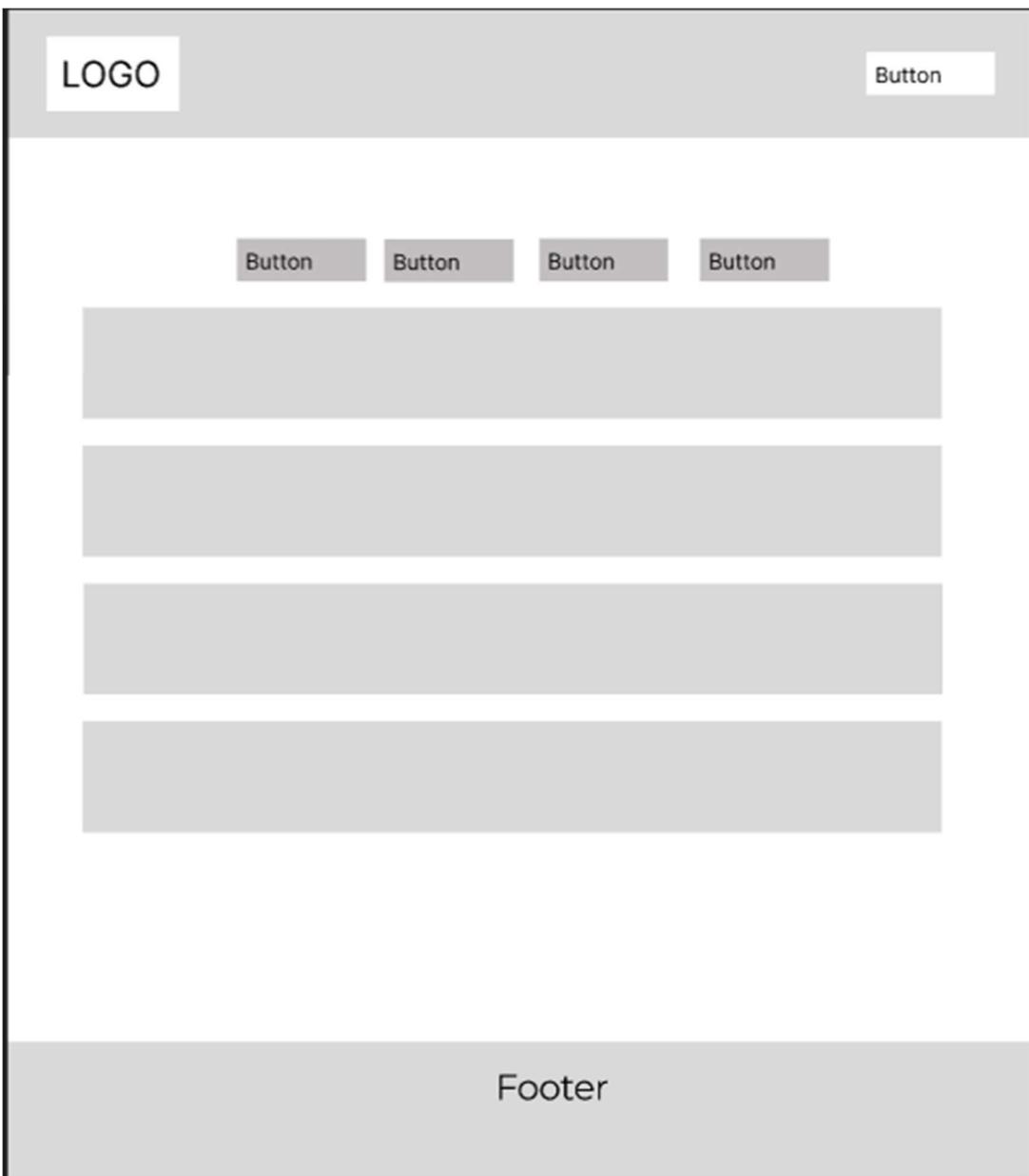
## New Timeline

Amet, consectetur adipiscing elit, sed do eiusmod tempor  
incididunt ut labore et dolore magna aliqua. Ut enim ad  
minim veniam, quis nostrud exercitation ullamco laboris nisi.

Button

Footer

**Manage Employee:**



**Manage Attendance:**

LOGO

Button

Button



Button

Footer

**Manage Leave:**

LOGO

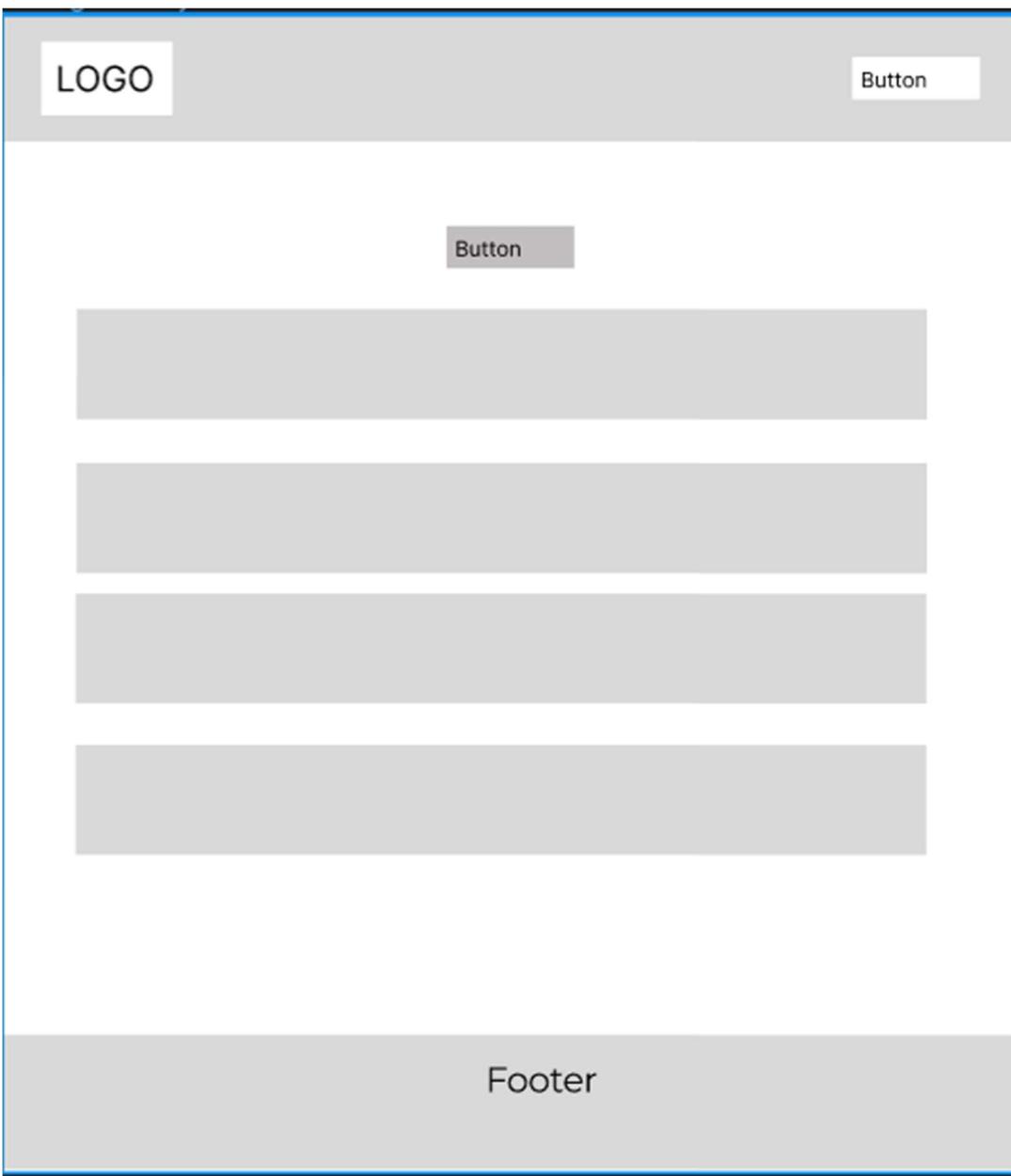
Button

Button

Button

Footer

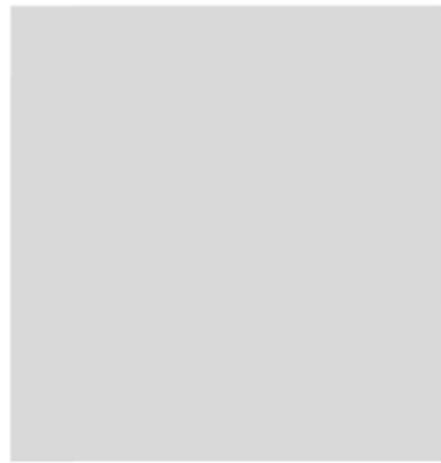
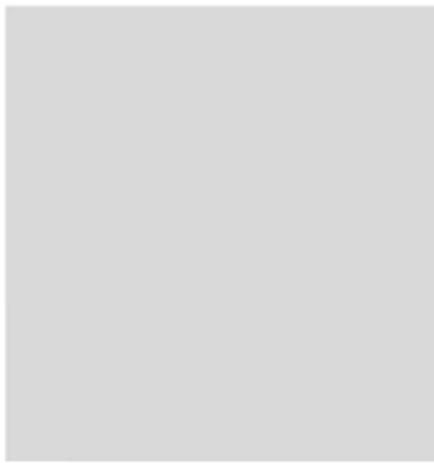
**Manage Holidays:**



**Miscellaneous Activity:**

LOGO

Button



Button

Button

Button

Footer

**Salary Slip:**

LOGO

Button

Button

Button

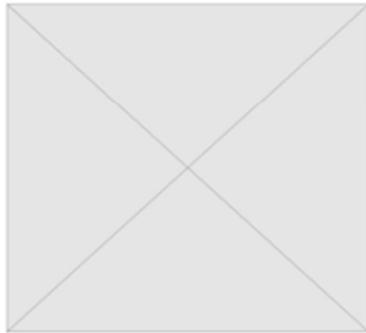
Button

Footer

**My Account:**

LOGO

Button



**Sed ut perspiciatis**

Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est.

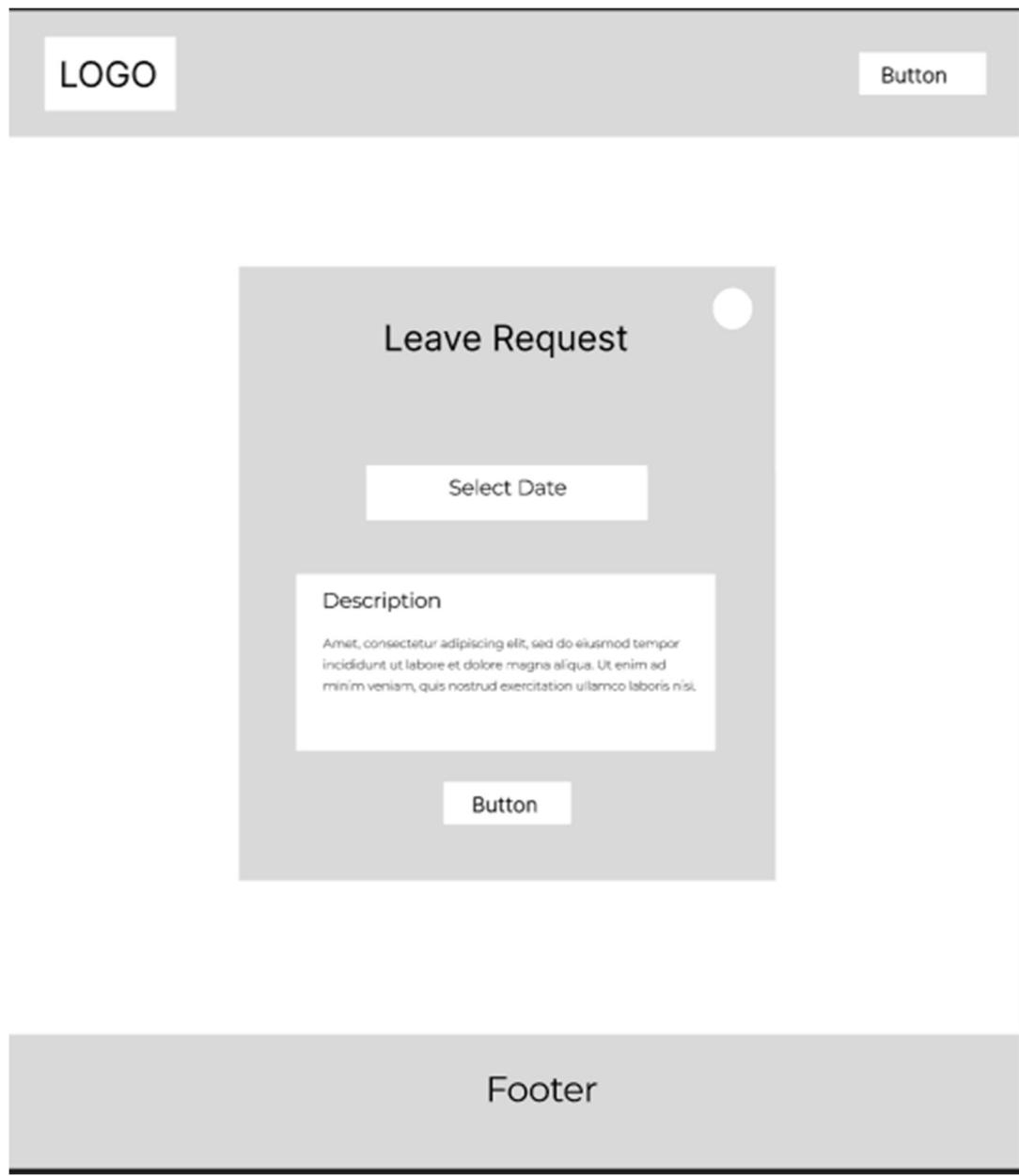
**Sed ut perspiciatis**

Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est.

Button

Footer

**Leave Request:**



The following are the high-fidelity screen designing:

## Landing Page:

The landing page features a large banner at the top with a blue-toned silhouette of a group of business people standing in front of a city skyline. Below the banner are five testimonial cards, each containing a circular profile picture and a quote from a different user.

**User 1:** "I subscribed to the Recertification Program to complete the credits for my SPHR renewal. I found the e-learning courses and webinars very interesting, helpful and up to date on current information. I would not have been able to get all of my credits without this very convenient and affordable option. Thank you for a great resource!"

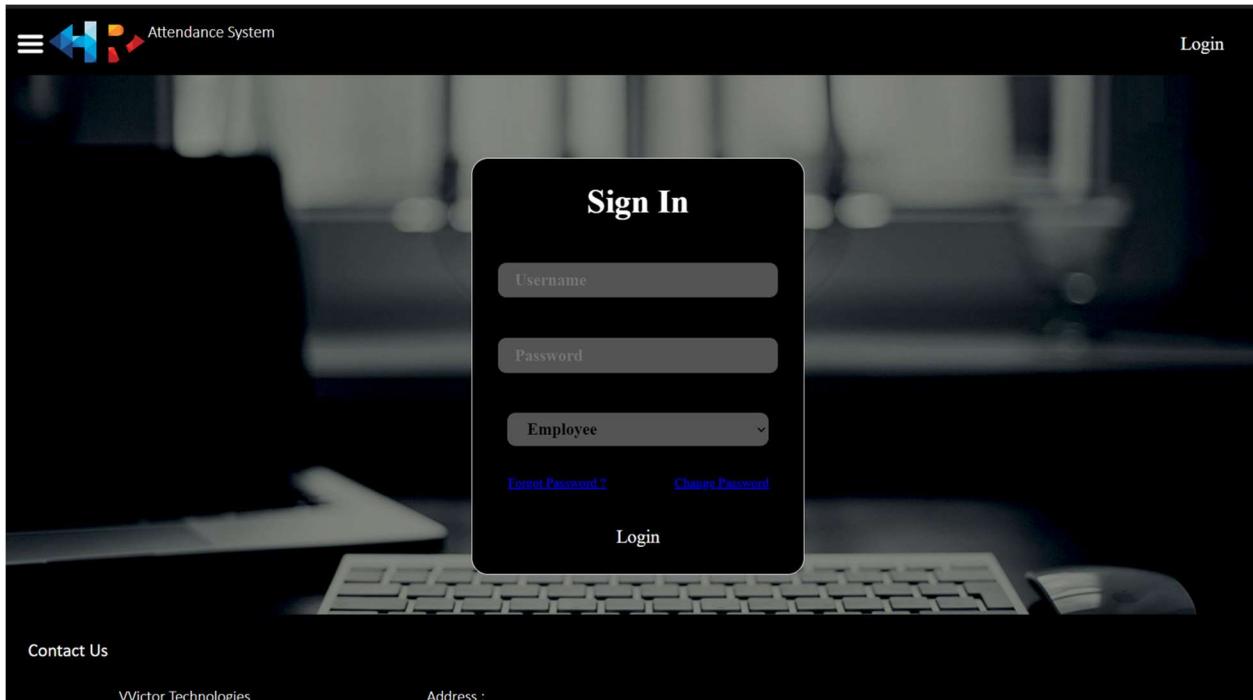
**User 2:** "One of the things that really inspired me about being part of the LEAD conference is being in the presence of all of these great HR leaders and learning and hearing their stories and thinking about how we can take back some of the pieces of great information that they've shared with us."

**User 3:** "Your website and resource offerings which are low or no cost have vastly improved my knowledge in the HR/Payroll/Benefits/Legislation worlds and have made it possible for me to learn as much as I can to make me a better more well rounded HR professional. You have been and are a trusted source of information and a positive impact for my professional development. Thank you!"

**User 4:** "The Excellence Essentials magazines provide a different perspective that allows an individual to view a topic from a fresh, new angle, so one can reflect, and possibly even be challenged to change for the better. The Excellence Essentials magazines provide an indispensable outlet for the sharing of HR knowledge."

**User 5:** "I truly enjoy attending the webinars. With such a busy work schedule it really helps with learning different items and hearing others thought. the webinars also allow me to stay up-to-date with different HR needs and trends. Every speaker that I have encountered has made the information clear and easy to follow and have kept my attention. Thanks HR.com"

## Login Page:



Contact Us

VVictor Technologies

Address :

Login

The Manager Attendance page displays a table with employee attendance data. The table has columns: Make Present, A\_Id, E\_ID, E\_name, A\_Date, and A\_Type. A search bar above the table shows the date '05-Nov-22'. The table row data is as follows:

Make Present	A_Id	E_ID	E_name	A_Date	A_Type
<input checked="" type="checkbox"/>	1675	Emp_2_3	Pankil Sheth	05-Nov-22	A

At the bottom left is a 'Save' button. The background shows a blurred computer setup. The top right corner has a 'logout' link, and the top left corner features the same logo and text as the login page.

**Timeline:**

 Attendance System

Clear Search New logout

Date	Message	User
06-12-2022 13:11:53	Hello team	HR Manager
05-12-2022 11:51:05	There will be few changes from the starting of New Year	HR Manager
01-12-2022 01:11:56	There will be final presentation on 20th December	HR Manager
29-11-2022 14:30:11	The following week will be full of surprises	HR Manager
28-11-2022 22:10:45	There will be a seminar at 12:00 P.M.	HR Manager
28-11-2022 12:26:04	Welcome to the Team	HR Manager
28-11-2022 12:22:06	Join tomorrow at 10 A.M.	HR Manager
23-11-2022 21:55:08	Hey adding to timeline	HR Manager

Contact Us

**Add to Timeline:**

 Attendance System

Clear

06-12-2022 13:11:53 Hello team

05-12-2022 11:51:05 There will be few changes from the starting of New

01-12-2022 01:11:56 There will be final presentation on 20th December

29-11-2022 14:30:11 The following week will be full of surprises

28-11-2022 22:10:45 There will be a seminar at 12:00 P.M.

28-11-2022 12:26:04 Welcome to the Team

28-11-2022 12:22:06 Join tomorrow at 10 A.M.

23-11-2022 21:55:08 Hey adding to timeline

New Timeline

X

Enter Description

Add To Timeline

logout

New

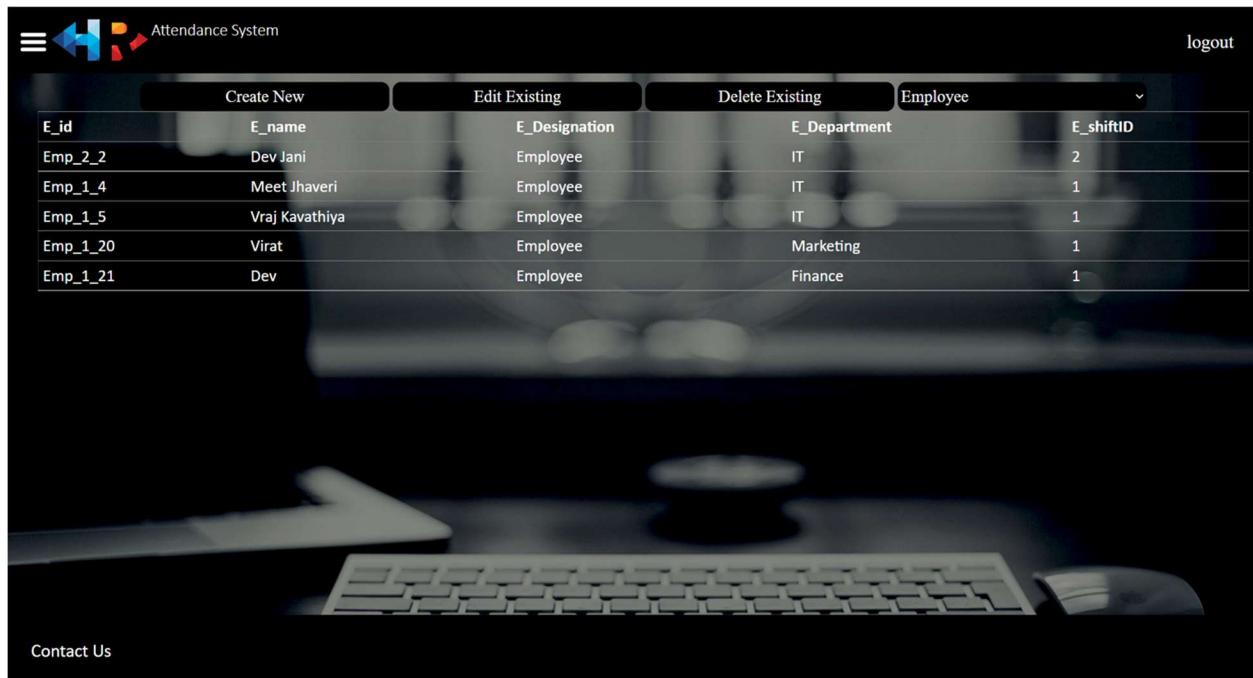
HR Manager

Contact Us

VVictor Technologies

Address :

## **Manage Employee**



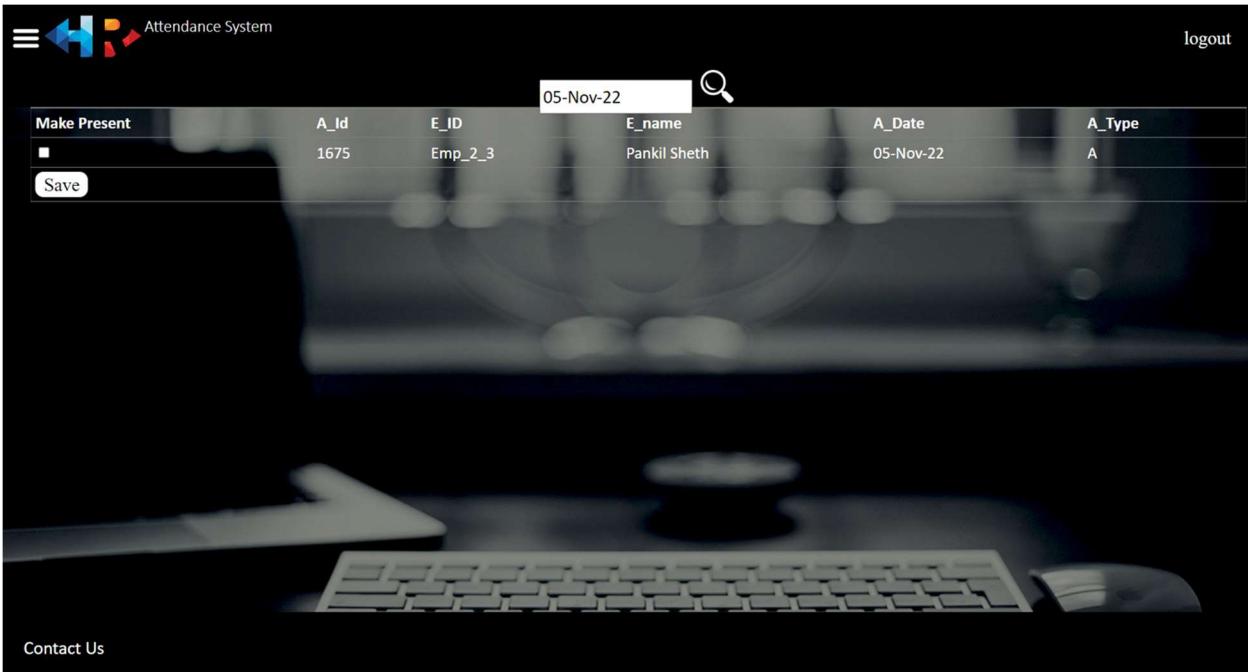
Attendance System

logout

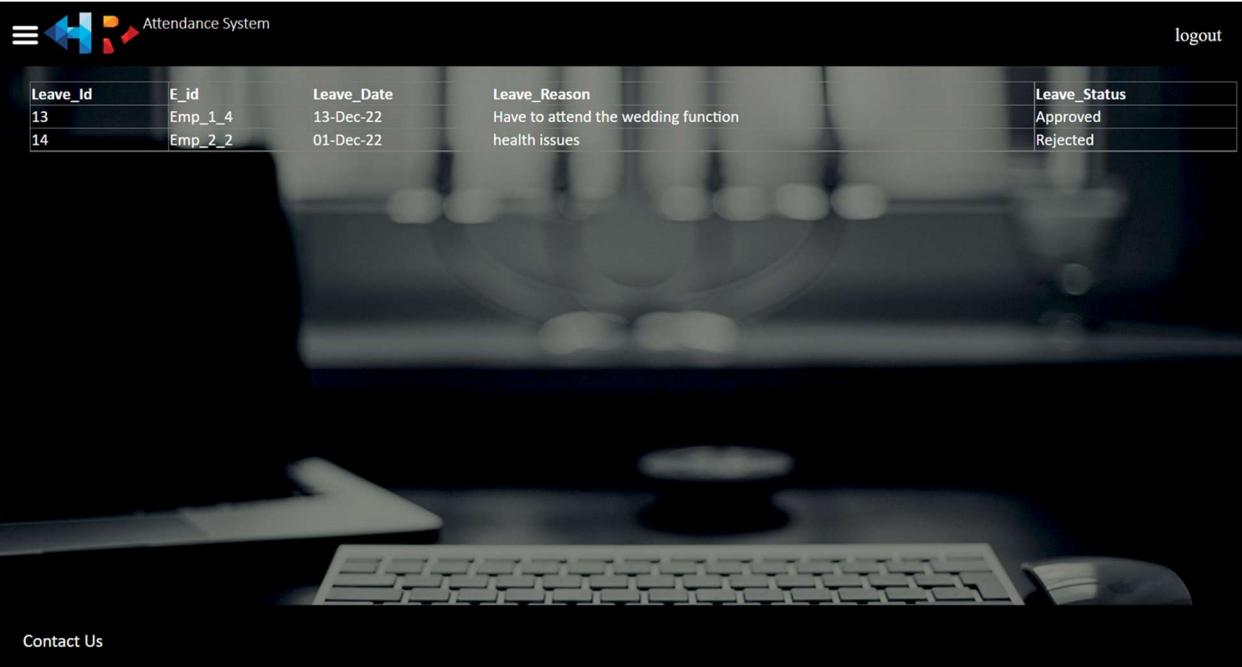
Create New		Edit Existing		Delete Existing		Employee
E_id	E_name	E_Designation	E_Department	E_shiftID		
Emp_2_2	Dev Jani	Employee	IT	2		
Emp_1_4	Meet Jhaveri	Employee	IT	1		
Emp_1_5	Vraj Kavathiya	Employee	IT	1		
Emp_1_20	Virat	Employee	Marketing	1		
Emp_1_21	Dev	Employee	Finance	1		

Contact Us

## **Manage Attendance**



**Manage Leave**



The image shows a screenshot of an Attendance System dashboard. At the top left is a logo consisting of three blue arrows pointing right, followed by the text "Attendance System". At the top right is a "logout" link. Below the header is a table with five columns: Leave\_Id, E\_id, Leave\_Date, Leave\_Reason, and Leave\_Status. The data in the table is as follows:

Leave_Id	E_id	Leave_Date	Leave_Reason	Leave_Status
13	Emp_1_4	13-Dec-22	Have to attend the wedding function	Approved
14	Emp_2_2	01-Dec-22	health issues	Rejected

At the bottom left of the dashboard is a "Contact Us" link. The background of the dashboard features a blurred image of a computer keyboard and mouse.

## Holiday List

New

Holiday_date	Holiday_desc
02-Mar-18	Holi
05-Nov-22	Diwali Vacation
1-Jan-22	New Year
14-Feb-18	Valentines Day
14-Jan-23	Uttarayan Celebration
15-Aug-22	Independence Day
25-Dec-22	Christmas
26-Jan-18	Republic Day

[Contact Us](#)

### Miscellaneous Activities

 Attendance System

logout

Edit	Update	ID	Description	Amount	is Percentage
<a href="#">Edit</a>	<a href="#">Update</a>	1	DA	10	Yes
<a href="#">Edit</a>	<a href="#">Update</a>	2	HRA	5	Yes
<a href="#">Edit</a>	<a href="#">Update</a>	3	MA	1000	No
<a href="#">Edit</a>	<a href="#">Update</a>	4	TA	2000	No
<a href="#">Edit</a>	<a href="#">Update</a>	5	DA	1000	Yes
<a href="#">Edit</a>	<a href="#">Update</a>	6	TA	1500	No

Edit	Update	Description	Values
<a href="#">Edit</a>	<a href="#">Update</a>	StartingYear	2016
<a href="#">Edit</a>	<a href="#">Update</a>	EmailID	
<a href="#">Edit</a>	<a href="#">Update</a>	Password	250398
<a href="#">Edit</a>	<a href="#">Update</a>	AllowLateTime	30

Calculate Salary for Particular Month !

[Calculate Salary](#)

Take Attendance

[Make Entry](#)

Open Application Form ?

[Save](#)



Contact Us

## Salary Slip

Nov 2022 Search

		Salary Slip	
		Nov 22	
ID : Emp_1_1	Name : KaranShah	Slip ID : 121 Department : IT	
Description	Earnings	Deduction	
Basic	Rs.50000	-	
Penalty	-	Rs.20000	
DA	Rs.5000	-	
HRA	Rs.2500	-	
MA	Rs.1000	-	
TA	Rs.2000	-	
Total	Rs. 60500		
Working Days :5 Present Days :3 Late Days :1 Current Month Leaves :2 Remaining Leaves :19	Net Pay Rs. 40500		

[Contact Us](#)

## My account



## KaranShah

Email ID : karan.s4@ahduni.edu.in

Mobile No. : 9157133600

Cast : General

Emp\_1\_1  
Manager  
Department : IT  
Time : 09:00:00 - 18:00:00

Gender : Male

Birth Date : 02-Apr-2001

Working Days : 65

Present Days : 60

Total Leaves : 5

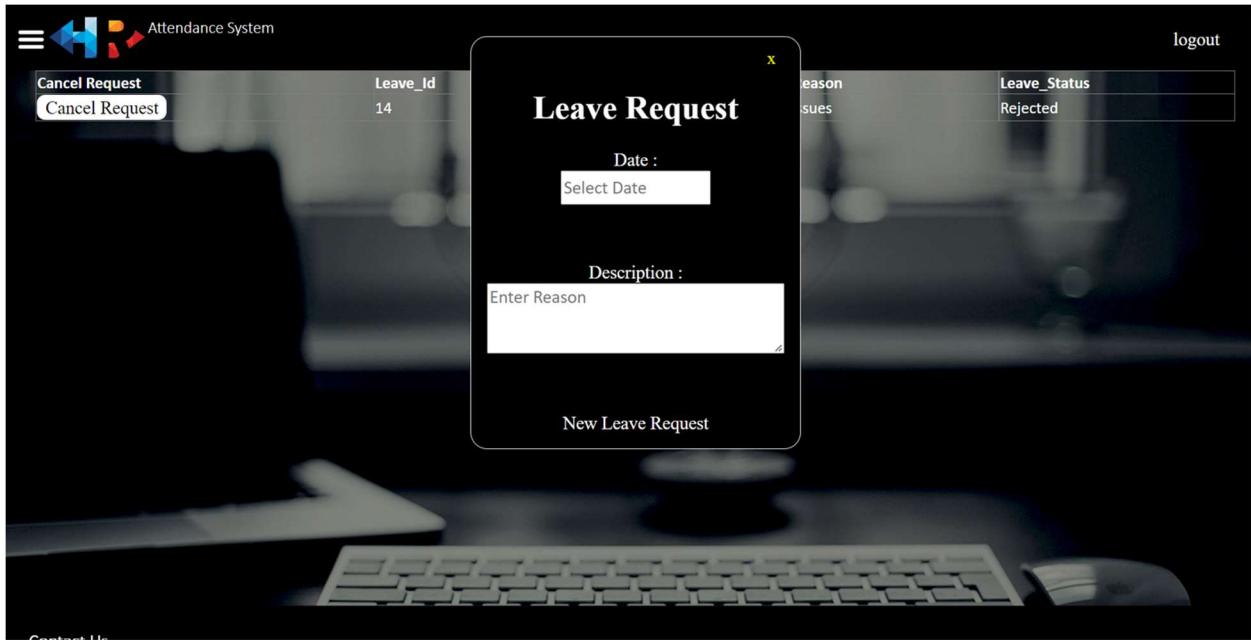
Save

### Contact Us

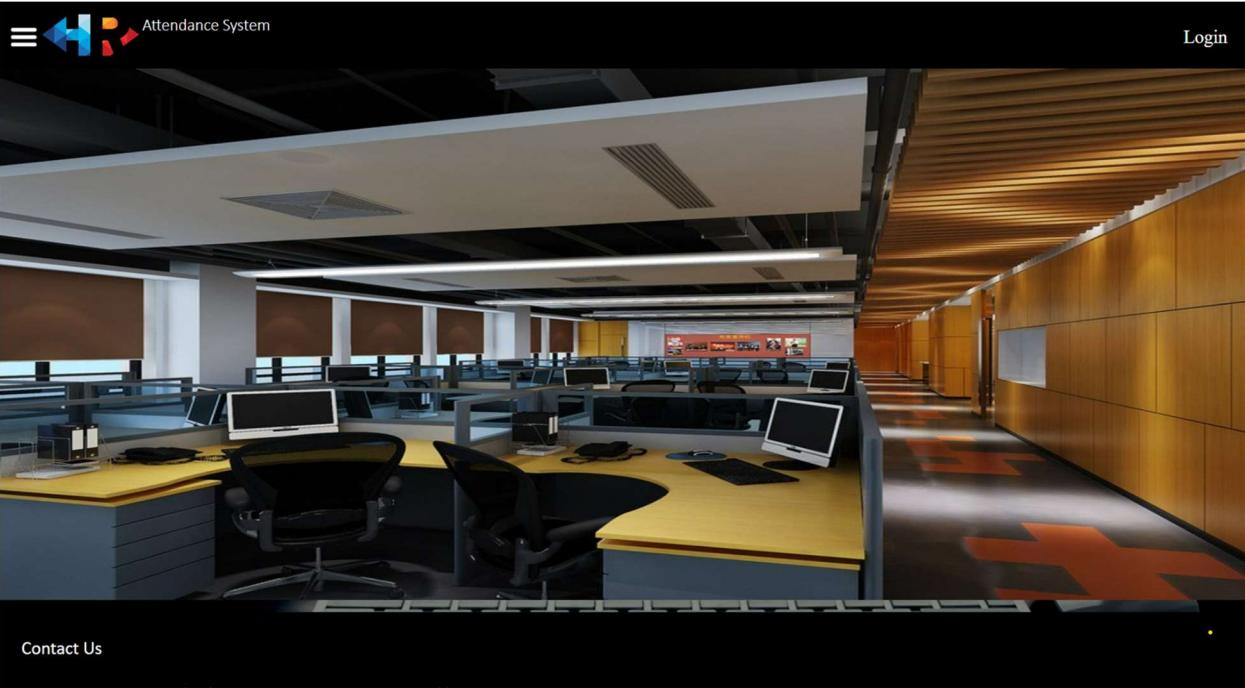
ABC Technologies  
Priyank Shah( Owner )  
+91 9898929322  
info@abctechnologies.com

Address :  
97, Harikrupa Tower,  
Near Manekbaug Hall,  
Ambawadi,  
Ahmedabad.

### Leave Request



## Gallery



Contact Us

## Our team



Login

### About Us

VVictor is a software company that is specialized in commercial software products for the financial markets as well as customer-specific solutions. Our experienced team of developers conceives, constitutes and operates mobile applications and web solutions. We also provide all associated services like hosting, operation and enterprise integration for our customers. We support our customers worldwide with modern products and custom software. We cover the entire IT service lifecycle, from design to implementation and operation. A balanced combination of leading edge technology and proven standards ensures investment security, from large-scale projects to innovative start-ups. Our employees have one common goal: to help our customers reach their digital business targets.

### Leadership Team



Karan Shah ( Director )  
+91 635555620  
ks4582200@gmail.com



Pankil Sheth ( CEO )  
+91 9106660890  
pankilsheth19@gmail.com



Meet Jhaveri ( Manager )  
+91 7778813161  
meet4jhaveri@gmail.com

### Contact Us

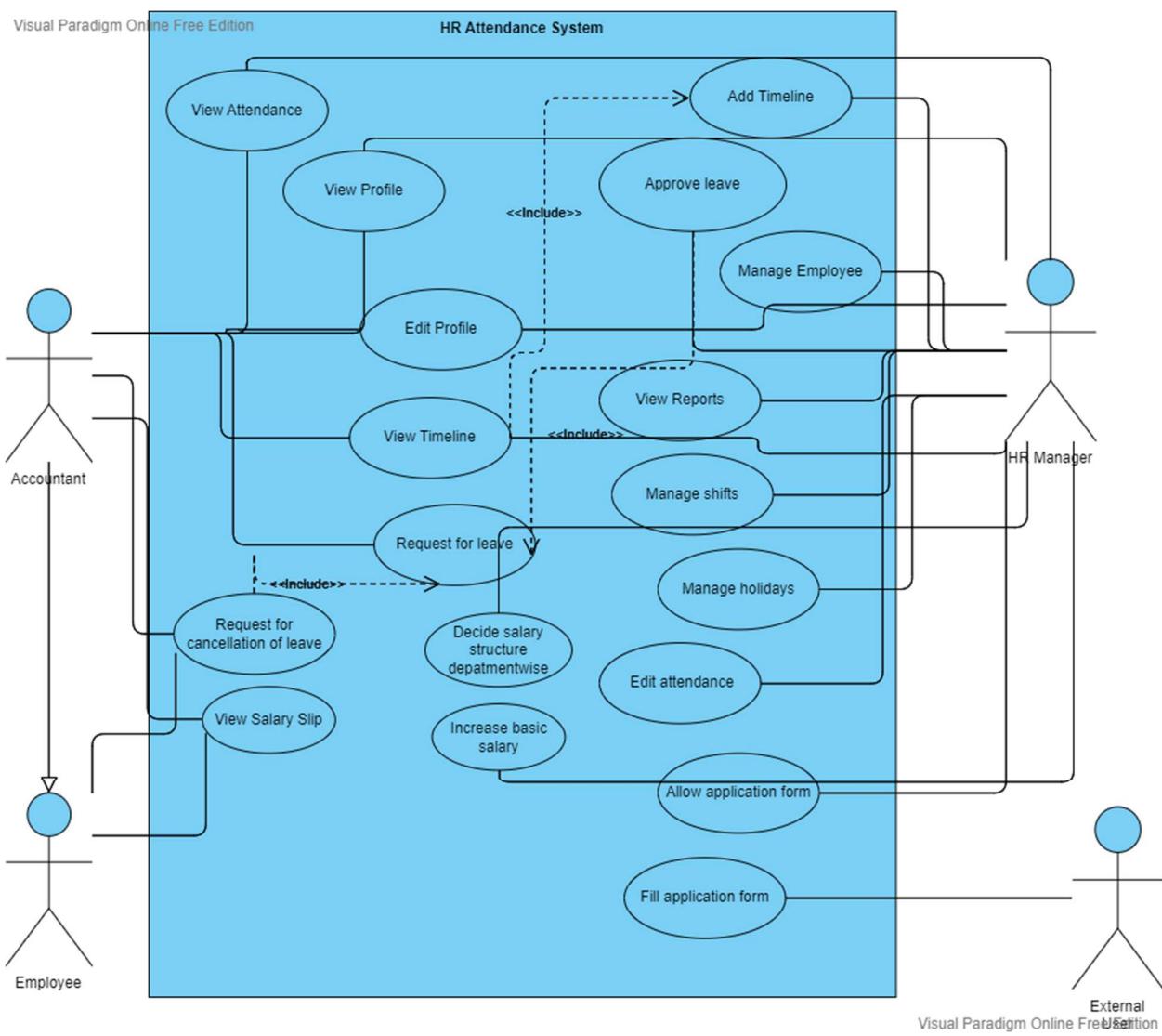
ABC Technologies  
Priyank Shah( Owner )  
+91 9898929322  
info@abctechnologies.com

Address :  
97, Harikrupa Tower,  
Near Manekbaug Hall,  
Ambawadi,  
Ahmedabad.

## **The five Diagrams of Requirement and Design:**

### **1) Use case Diagram:**

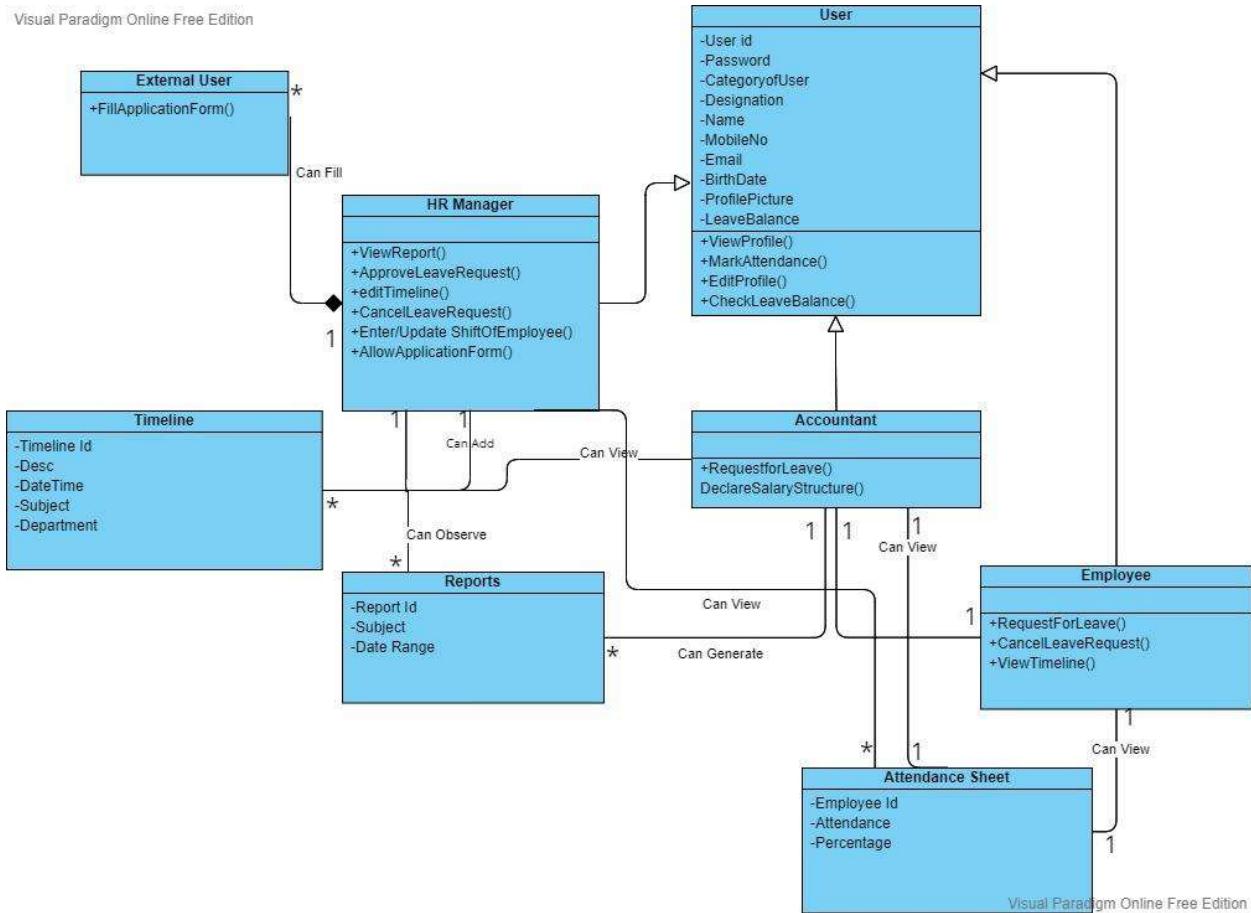
A use case diagram is used to describe the dynamic behavior of a system. It contains the system's functionality by including use cases, actors, and their relationships. It simulates the duties, services, and operations needed by a system or application subsystem. It shows a system's high-level functionality and also describes how a user interacts with a system.



## 2) Class Diagram:

Static diagrams include class diagrams. It represents the application's static view. Class diagrams are used to create executable code for software applications as well as for visualizing, explaining, and documenting many elements of systems.

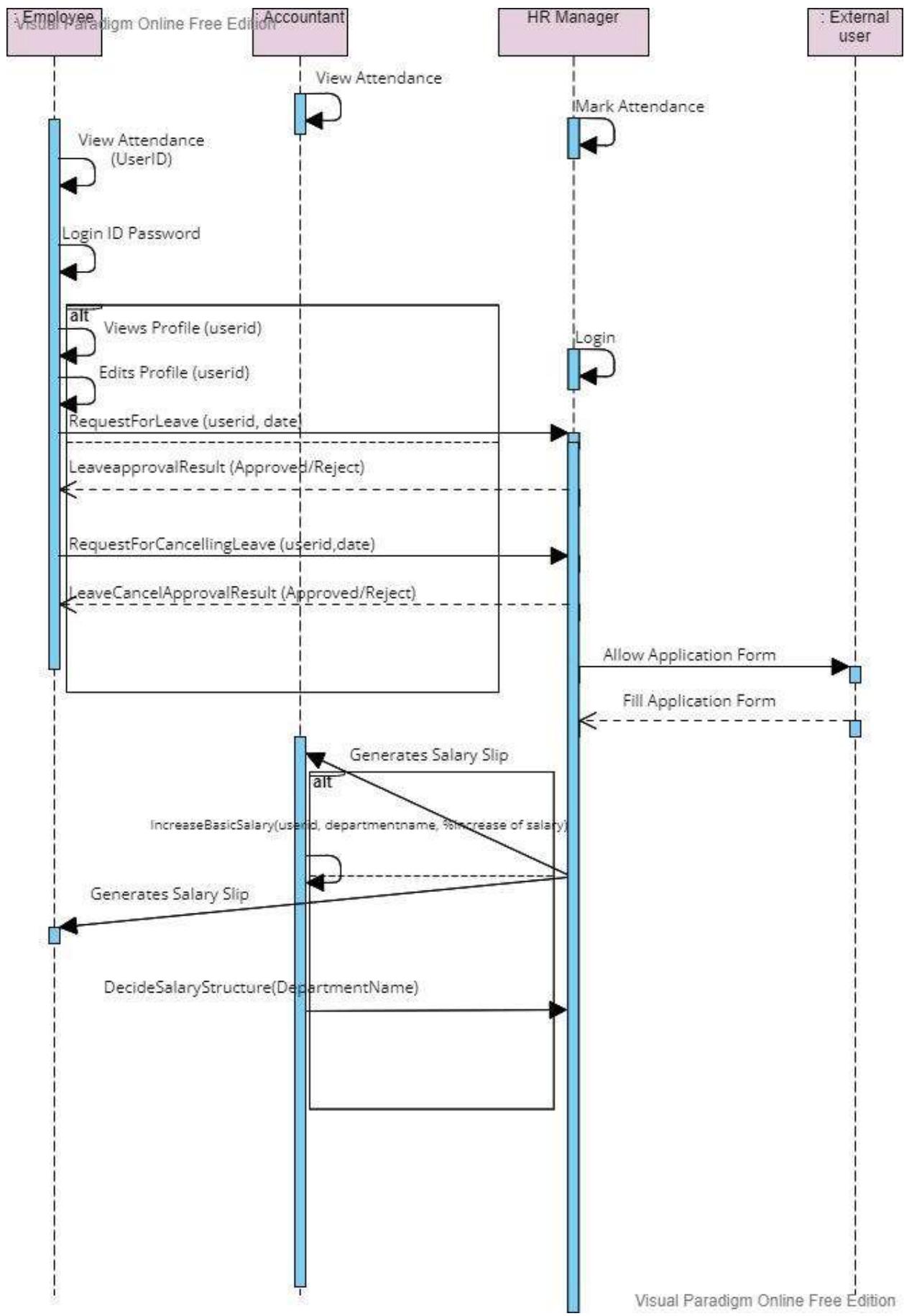
The characteristics and functions of a class are described in a class diagram, along with the restrictions placed on the system. Because they are the only UML diagrams that can be directly mapped with object-oriented languages, class diagrams are often employed in the modeling of object-oriented systems.



## 3) Sequence Diagram

A sequence diagram is a diagram created using the Unified Modeling Language (UML) that shows the flow of messages sent and received by objects during an interaction. A set of objects that are represented by lifelines and the messages they exchange over the course of an interaction make up a sequence diagram.

The order in which messages are transferred between objects is depicted in a sequence diagram. Sequence diagrams can also display the command chains that link items.



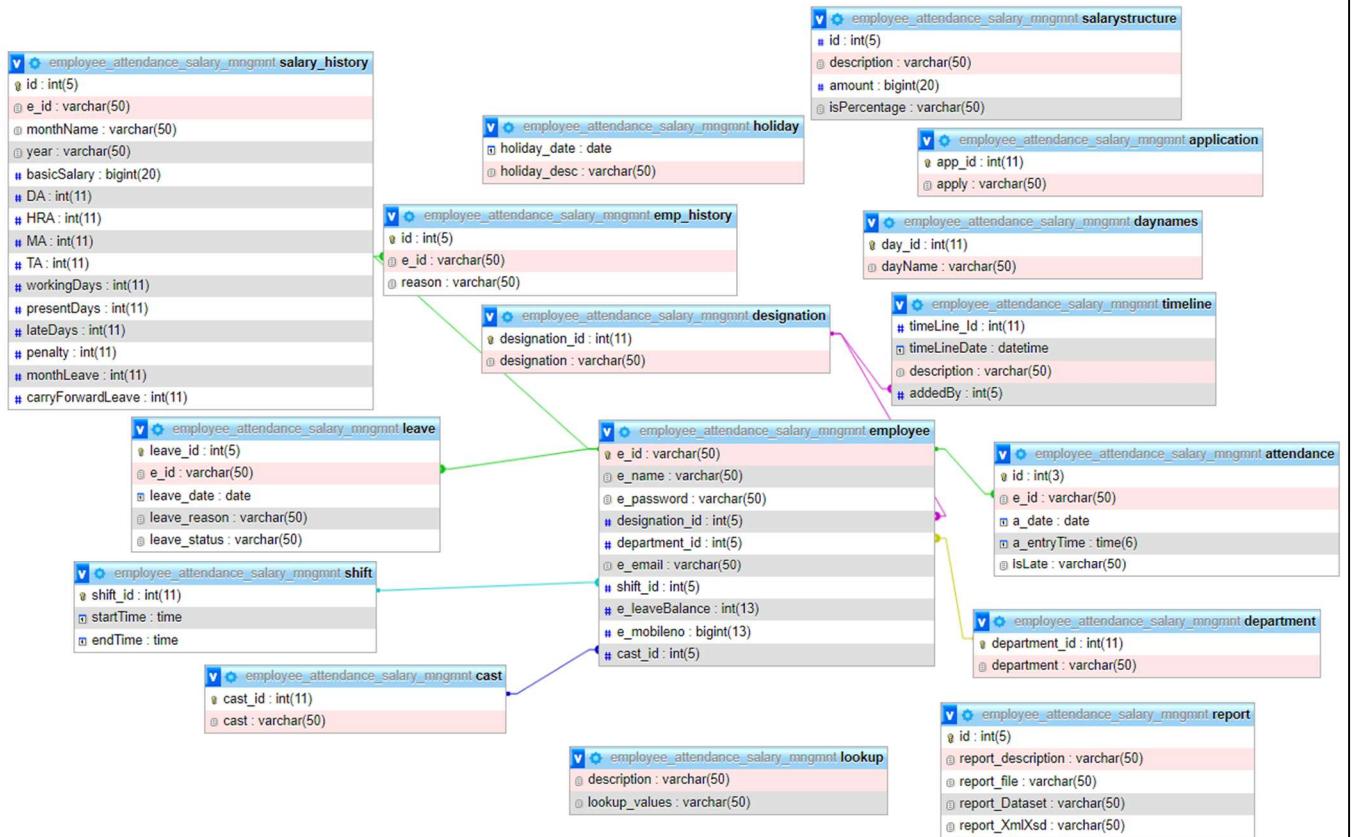
## 4) ER Diagram

The E-R Diagram is a method for visually illustrating the logical organization of a database. After that, a relational database is created by normalizing the relation and organizing the data as a relation.

**Entities** are the specific real-world things that are specified in an application.

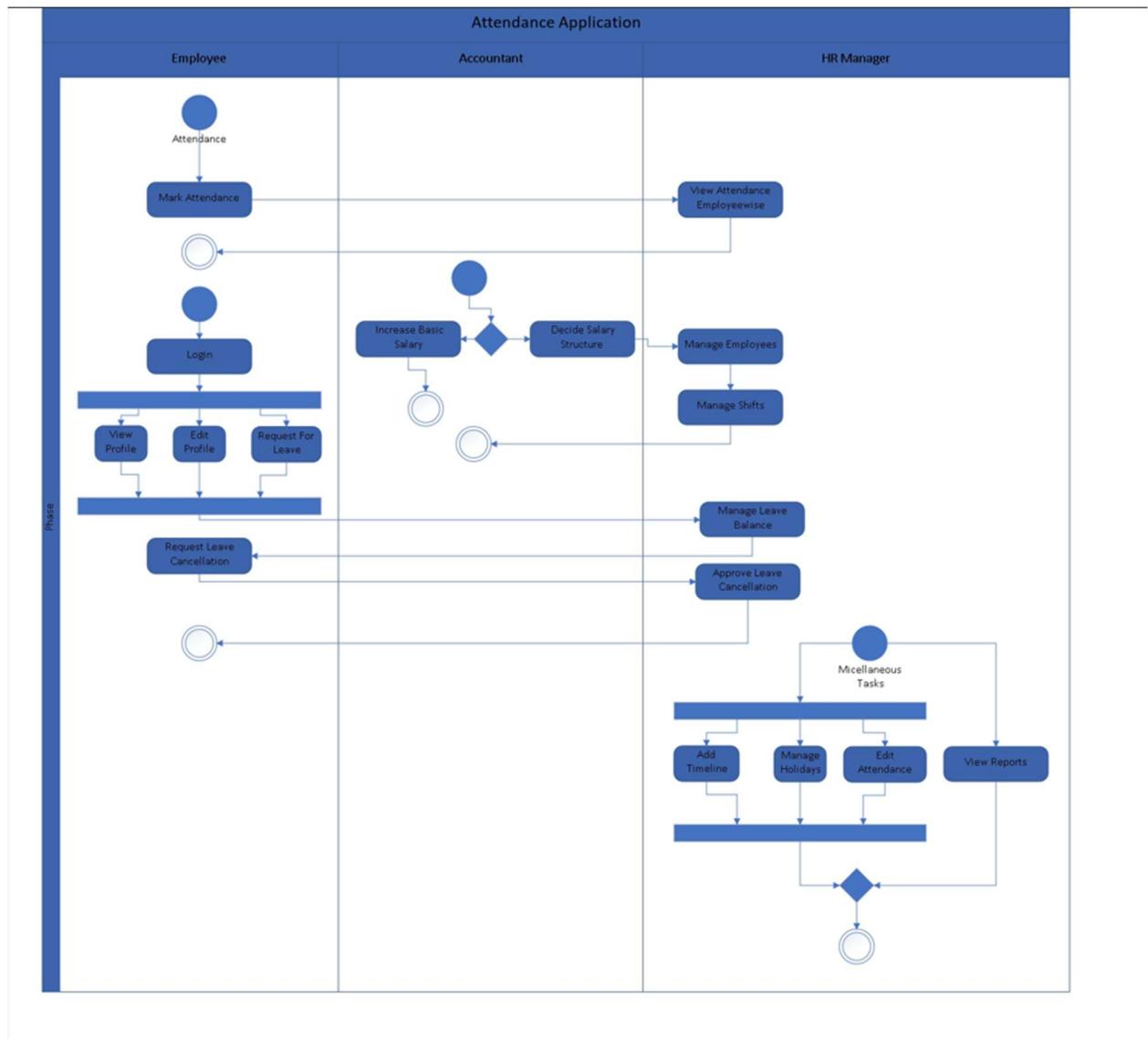
**Properties and attributes** are terms used to describe an entity's attributes and relationships.

**Relationships** that link objects and show significant relationships between them



## 5) Activity Diagram

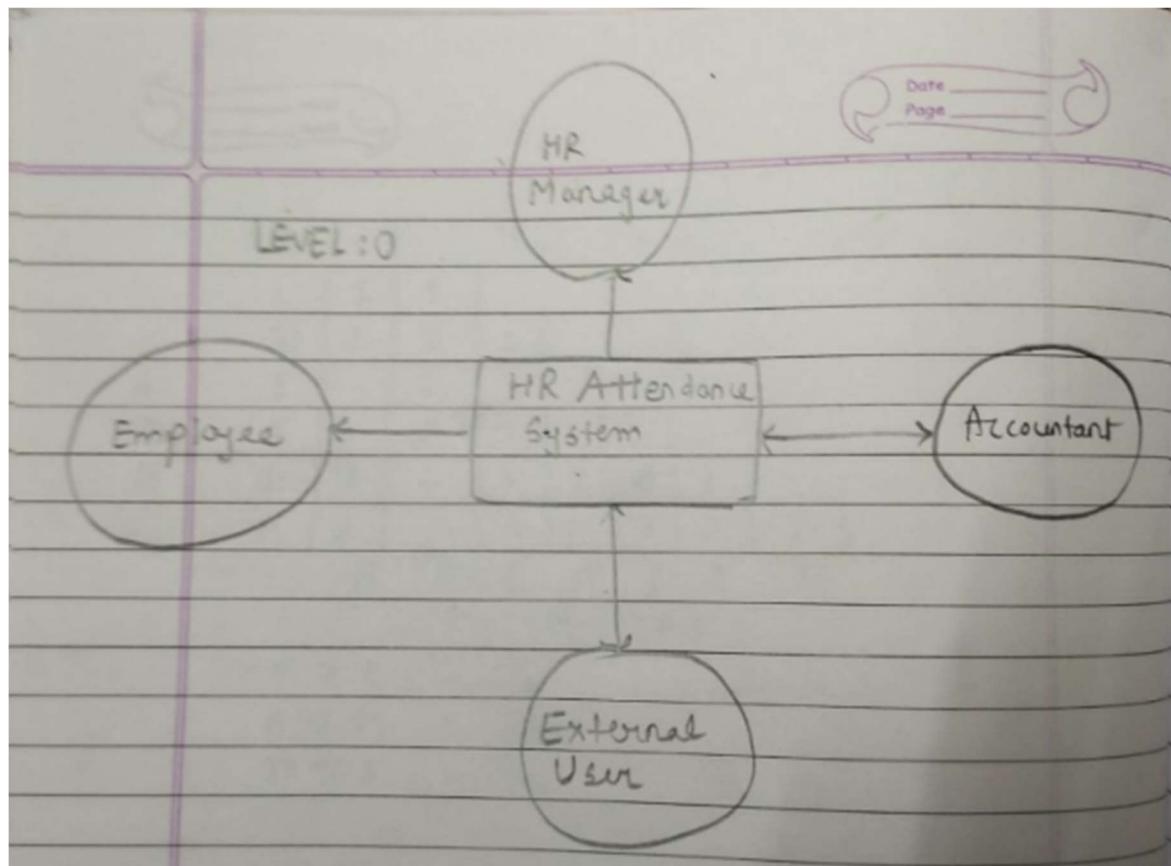
Activity Diagrams help depict the flow of control in a system and relate to the processes involved in the execution of a use case. We model sequential and concurrent activities using activity diagrams. So, using an activity diagram, we simply visualize workflows. An activity diagram emphasizes the state of flow and the order in which it occurs. Using an activity diagram, we may explain or illustrate the factors that lead to a specific occurrence.



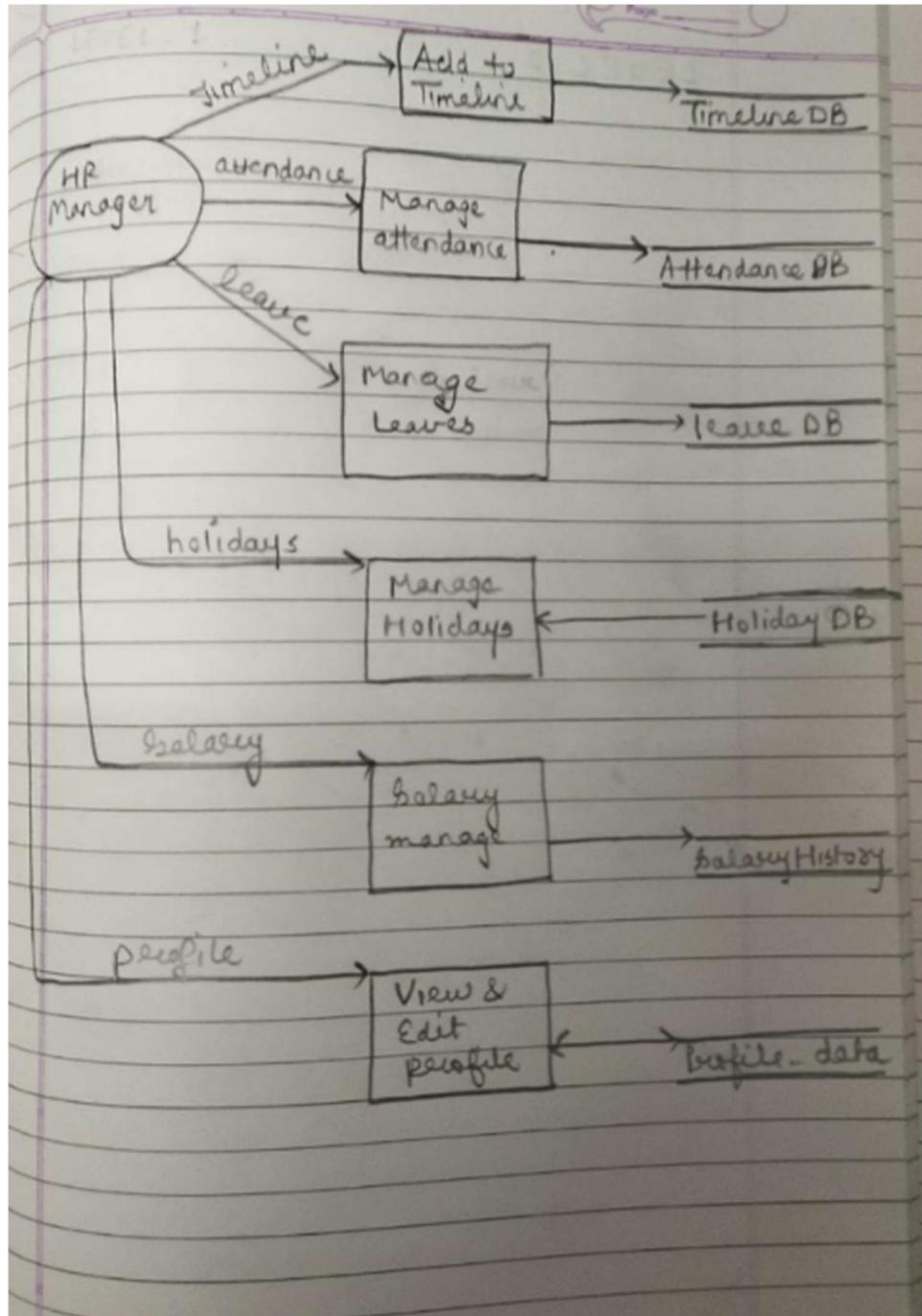
## 6) Data Flow Diagram

The objective of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communication tool between a system analyst and any person who plays a part in the order that acts as a starting point for redesigning a system.

### Level 0



### Level 1



## Test Cases and Test Plan

For our test plan, we divided our testing phases according to different portals. Since Login Page is the first portal the user will encounter, we developed various test cases for the Login Page

moving on to running test cases for other portals such as Manage Employee Page, Manage Leave Page, Salary Slip page, etc. For our testing strategy involving Test cases, the test cases were developed in such a way that they had a certain output that is expected. Then, we observe the output that is actually being shown. We mark the test results as Pass or Fail based on the different scenarios.

**> Landing Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	An external user can apply for a job opening	The user should be able to access the form to apply for the job	The user isn't able to fill the form.	Fail

**> Login Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Valid Username valid password	User should be able to login	App is allowing the user to login	Pass
2.	No Username No Password	User shouldn't be able to log in	The user is not allowed to login	Pass
3.	Invalid Username and Password	User shouldn't be able to log in	The user is not allowed to login	Pass
4.	Password being case sensitive	User shouldn't be able to get through this	The user is able to log in without the involvement of case sensitivity	Fail

5.	Username being case sensitive	Users should be able to login.	The user is able to log in with the involvement of case sensitivity	Pass
6.	Enter username and password and then press the "Enter" key. Does it invoke the Submit button?	User's request should be able to proceed	The user is not able to submit.	Fail
7.	The Login button should be enabled after entering valid data with all the fields.	The login button should not be made available until the data is filled up	The login button is already active even if the data isn't provided	Fail
8.	Change the password	User must be provided the option to change password at any point of time	The user is able to update the password	Pass
9.	Restrict user to login with the old password	The user shouldn't be allowed to log in	Error is shown while logging in using the old password	Pass

➤ Manage Employee Page:

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Entering new employee details where mobile number field is having less than or more than 10 digits and non-	The user should not be able to proceed if the number is not exactly 10 digits.	The user is not able to proceed if the number entered is less or more than 10 digits.	Pass

	numeric characters			
2.	Check if the profile picture is added while adding a new employee	The Compulsion should be there to add the profile picture	The profile picture is necessary in order to proceed.	Pass
3	Edit/Update company member details	The Manager should be able to edit certain details about the company member	The manager isn't able to edit any details once registered	Fail

➤ **Manage Attendance Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	If the attendance data is not available for the particular day.	Throwing error (no records found) if data is not present	The error of “No Data Found” is shown on screen	Pass

➤ **Salary Slip Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Salary slip generation for a particular month of the year	If the salary slip is not found, an error should be shown	If the salary slip is not found, no error is shown	Fail
2.	Salary slip for the selected	Salary slip should be	Salary slip is shown for the	Pass

	month	generated for the selected month is salary is calculated	particular month	
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➤ **Manage Leave Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Count the number of leaves of a particular employee	The percentage distribution of leaves should be given for a user	The pie chart is shown providing the details of leaves taken by the employee	Pass

➤ **Manage Holidays Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Date is displayed while adding holidays to the list	It is obtained from the date picker	The calendar is provided for choosing the date	Pass

➤ **Timeline Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
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1.	Add new Timeline	User should be able to add a new timeline	New timeline for the desired date will be added	Pass
2.	Search particular Timeline w.r.t Date	The particular announcement can be searched using the date type	The calendar can be used to search for a particular announcement	Pass

➤ **My Account Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Update the profile	User should be able to update the mobile number, naming convention and Email id	The updation is possible and updated data is saved as well	Pass

➤ **Leave Request Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Leave request status on Manager's page	Display the status of the leave	The manager can approve/reject the leave request	Pass
2.	Withdraw the leave request proposed by the employee	The leave can be withdrawn later if incase the applicant	The applicant isn't able to withdraw	Fail

		changes his mind		
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➤ **Miscellaneous Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Update the salary constraints	The Manager/Accountant should be able to update the salary constraints as in when required.	Updation is not possible	Fail
2	Mark Attendance	The attendance of all the employees/managers/accountants should be marked as Absent by default	The initial attendance is marked as absent	Pass
3	Calculate Salary	Salary of the selected month must be generated for all the company members	Salary slip is generated for all the company members	Pass

➤ **Report Page:**

Serial No	Test Cases	Expected Output	Actual Output	Test Result
1.	Generate Report	Logged in user will be able to know about his/her work through the report	The report is not generated	Fail

## **Meetings Documentation:**

### **1) Project Kick-off Meeting - 3rd September (5:30 PM, Duration 2 hours)**

In this meeting, the team members got together to decide on the project title, definition, description, and the software model to be employed. A one-page document was created including all the discussed details and submitted.

### **2) Meeting 2 - 9th September (Duration 3 Hours)**

In this meeting, the team members worked on listing the requirements for the software that any user would want. We started off with a discussion on the functional requirements that each stakeholder - Human Resource Manager, Accountant, or Employee, of our software would require. In addition to that, we looked at different non functional requirements and external interface requirements for our team.

### **3) Meeting 3 -26th September (Duration 2 Hours)**

In this meeting, the team members worked on creating the database and its salient data tables. We also started reviewing which components to include in our UML diagrams. We also started coding our software.

### **4) Meeting 4 - 6th October (Duration 2 Hours)**

Started working on the UML diagrams for the requirements. Finished use-case diagram and class diagram. Before doing so the team members finalized the format of each UML diagram, which tables to include etc. Reviewed the development in the code since the last meeting and continued the same.

### **5) Meeting 5 - 14th October (Duration 2.5 Hours)**

Continued working on the UML diagrams and finished the remaining ones. Discussed bringing ideas about screen designs by next meeting, so a paper prototype could be started. Reviewed the development in the code since the last meeting and continued the same.

6) Meeting 6 - 20th October (Duration 2 Hours)

In this meeting, the team members sketched out some paper prototypes for the screen design and after a few discussions, decided on the final screen design based on its paper prototype. Reviewed the development in the code since the last meeting and continued the same.

7) Meeting 7 (2nd November), 8 (9th November), and 9 (14th November)

These three meetings were dedicated to quality assurance. We started off by discussing the testing strategies we want to implement, started working on the test cases, and made the changes in the code as and when needed. Once we felt there was a satisfactory outcome of our work, we finalized it.

8) Meeting 10 (6th December), 11 (7th December), and 12 (8th December)

Started working on the documentation and the final report. Discussed the flow of the document, and which parts are to be added. Once that was clear, we started working on adding the sections in the report and also discussed the order in which the presentation is going to be. Reviewed the final running of the software.