# Chapter-1
## Introduction

## 1.1 Existing System

- Human resource management system is a suite of software applications used to manage human resources and related processes throughout the employee lifecycle. An HRMS enables a company to fully understand its workforce while staying compliant with changing tax laws and labor regulations.

## 1.2 Need for the New System

- It refers to a suite of software that organizations use to manage internal HR functions. From employee data management to payroll, recruitment, benefits, training, talent management, employee engagement, and employee attendance, HRMS software helps HR professionals manage the modern workforce.

## 1.3 Objective of the New System

- The major objective of the system is HR can easily maintain all information of the Employee and also Employee can see all the data related it.

## 1.4 Problem Definition

- HR leaders and staff are the primary users, given that they run day-to-day workforce operations and are responsible for compliance and performance reporting. However, HR isn't the only department that benefits. Companies can empower managers and employees with self-service for common tasks—an important selling point for younger hires. Executives can use an HRMS to generate data on workforce trends and their business implications

## 1.5 Core Component

- **Web App**
  - Angular JS
  - Angular 15
  - .Net MVC
  - Ionic
  - Bootstrap
  - Html
  - Css

## 1.6 Project Profile

| | |
|---|---|
| **Project Title** | HRMS |
| **Technology Used** | **Angular 15**<br>**.Net MVC**<br>**Ionic** |
| | **Prof. Rashmi Chouhan** |
| **Team Member** | **5** |
| **Developed By** | Nandani Borse (ET21MTCA007)<br>Urvashi Borse (ET21MTCA008)<br>Khan Gosiya (ET21MTCA037)<br>Dharmin Prajapati (ET21MTCA074)<br>Anjali Shimpi (ET21MTCA093) |
| **Front End** | Angular JS, Bootstrap, Html, Css |

## 1.7 Assumption and Constrains

- User must have basic knowledge of user interface of the system.
- Internet connection is needed.

## 1.8 Advantages and Limitations of the Proposed System

**Advantages** :

- HRMS System Provide an effective way to manage employees .
- Manage Attendance of all the employees with face recognition and also store its location which implement in phone.
- Manage Payroll system which contain Appraisal ,Loan Management, Pay slip functionality .
- Employee can see its profile and also its Attendance in App.
- Employee also can download its Pay slip.
- Employee also can download Reports like Employee Report, Pay slip etc.
- Employee also can download Document like Joining letter and Offer later etc .

**Limitations:**

- Internet connection is required.

# Chapter-2

## Requirement Determination & Analysis

## 2.1 Requirement Determination

- To develop any application, it is important to identify the user requirements therefore it is very important to analyze the existing application.

- During analysis, initially, we started with studying the web with specification documents to understand the system and refer to an existing system. We started to collect the basic requirements of the web. During the discussion of the system, we had questions and answers in between the discussion, which helps us to clear the idea about the system. We met us project guide with basic details. He told us the changes to be made in the work completed.

- By discussion We were able to get a lot of important information for the proposed web We observed that output the personnel give to their existing application and what kind of output they are getting.

- The new web is proposed to organize all the above activities so the work becomeseasy and any person can operate the app easily.

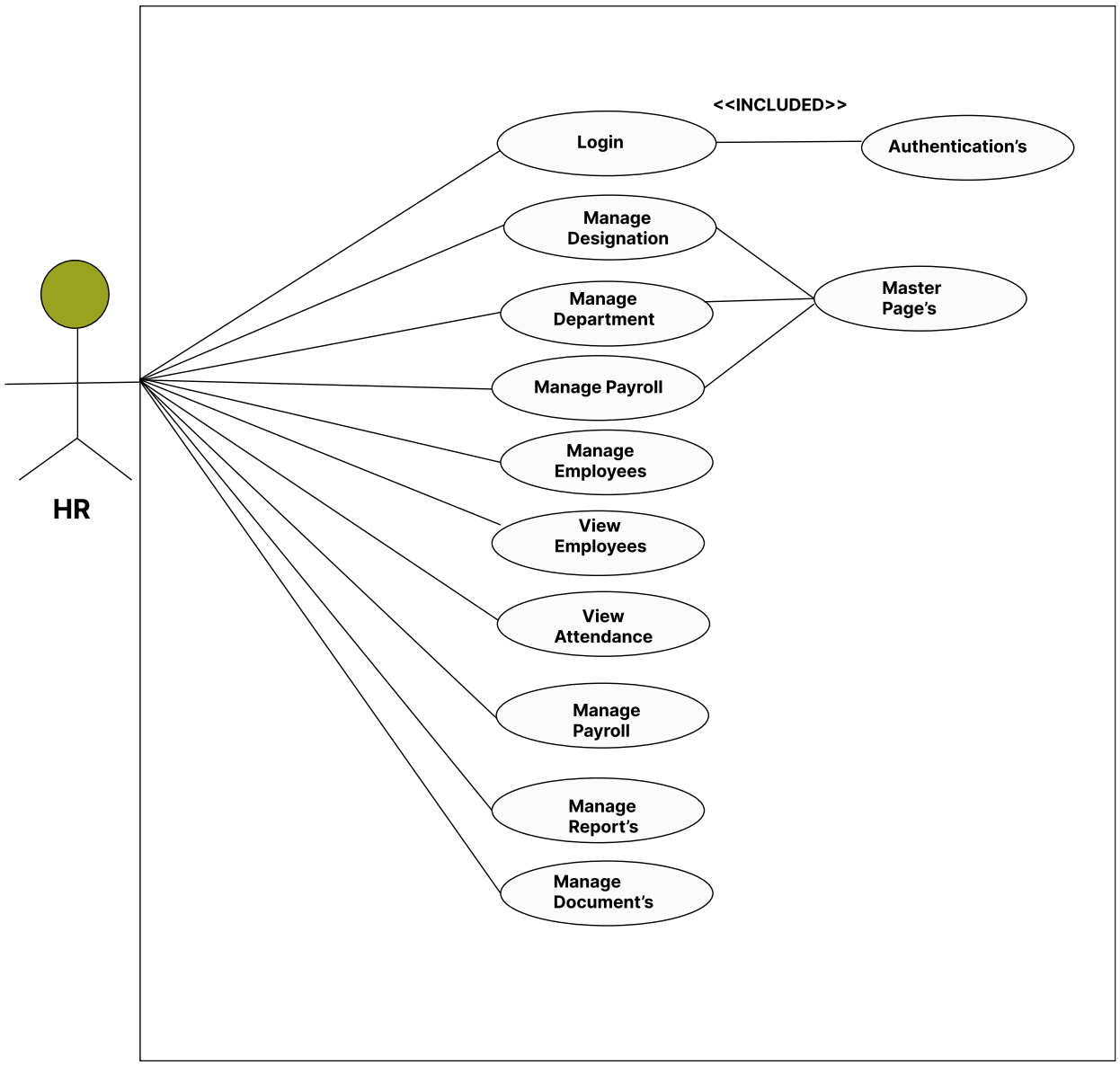
## 2.2 Targeted Users

- HR(Admin)
  - Manage Login
  - Manage Employee
  - Manage Dashboard
  - Manage Employee Data
  - View Employee Attendance
  - Manage Employee Salary Details
- Employee
  - View Own Profile
  - View Own Attendance
  - Manage Own Attendance
  - View Own Salary Details

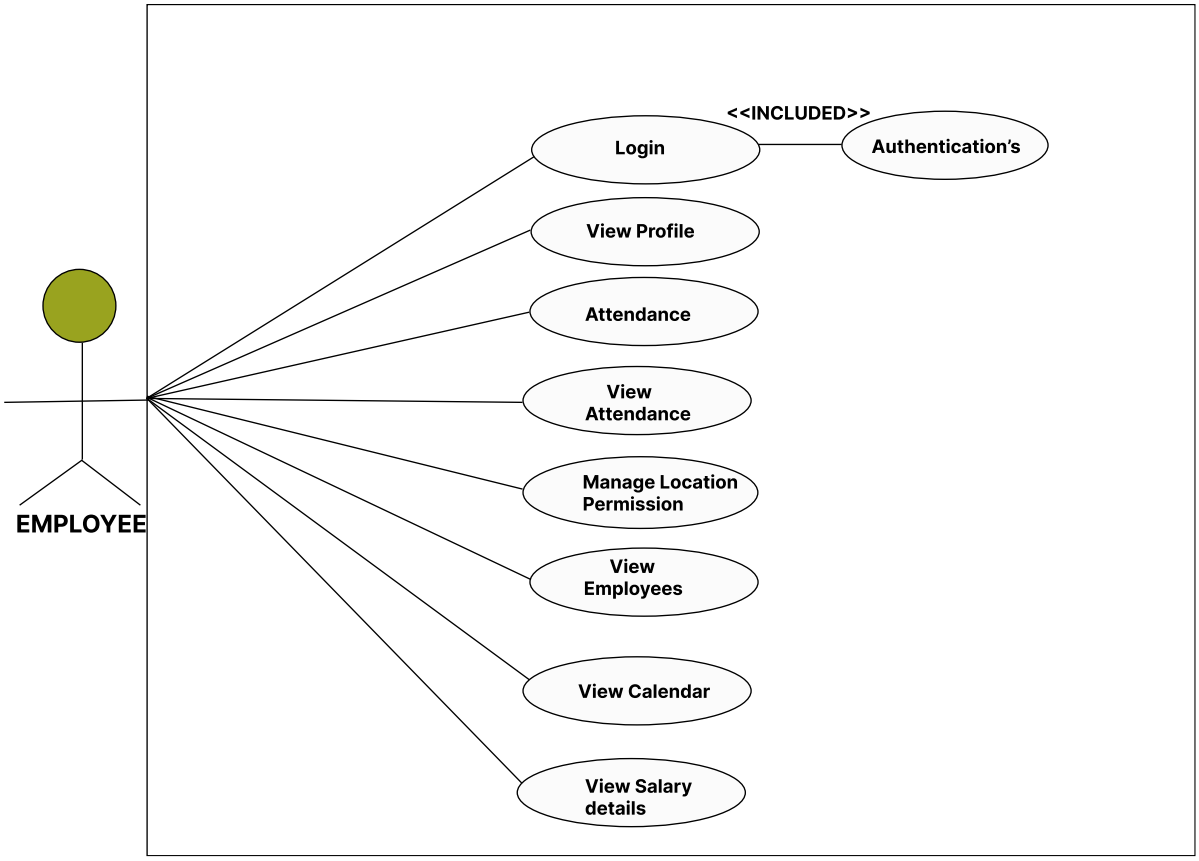
# Chapter-3

## System Design

## 3.1 Use Case Diagram

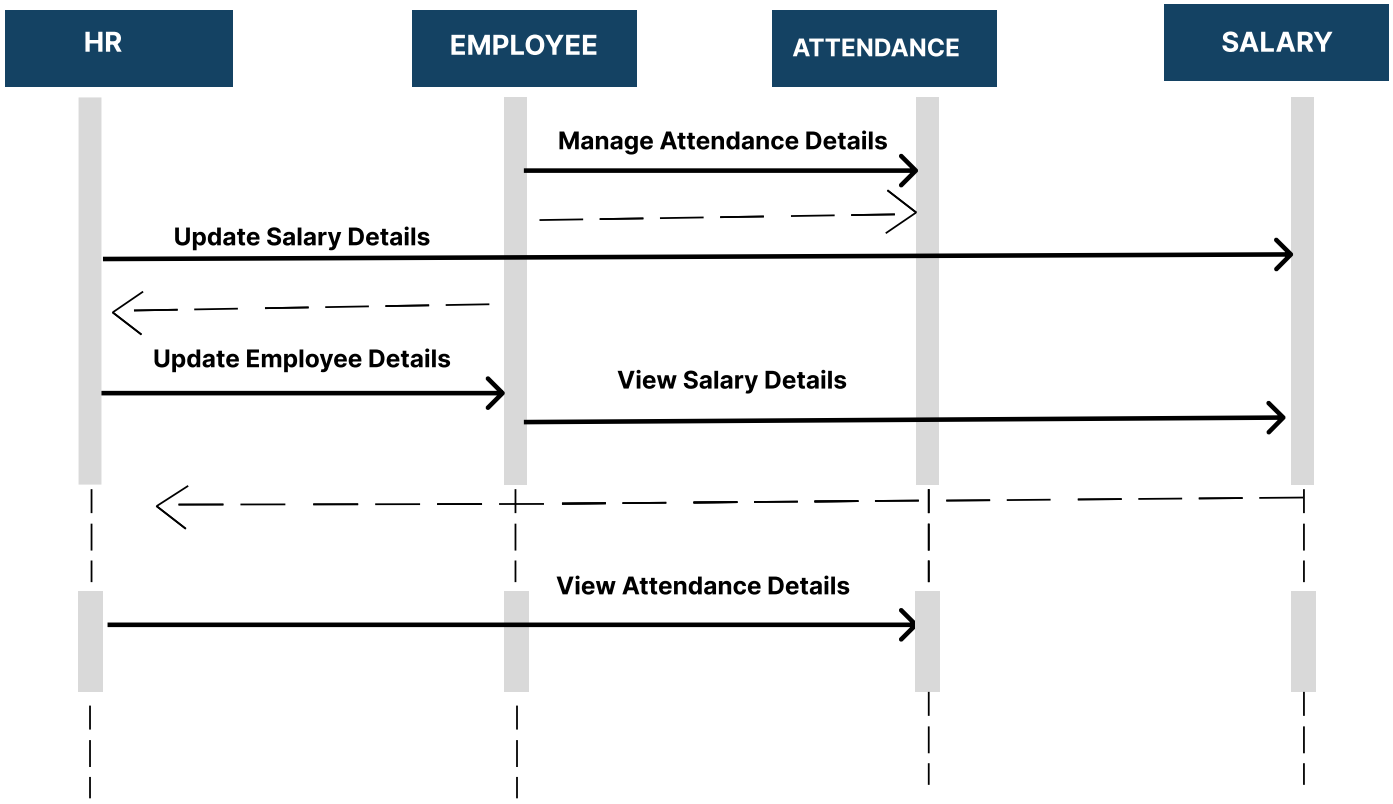



**[Figure: 3.1.1 Use Case Diagram for HR( Admin)]**

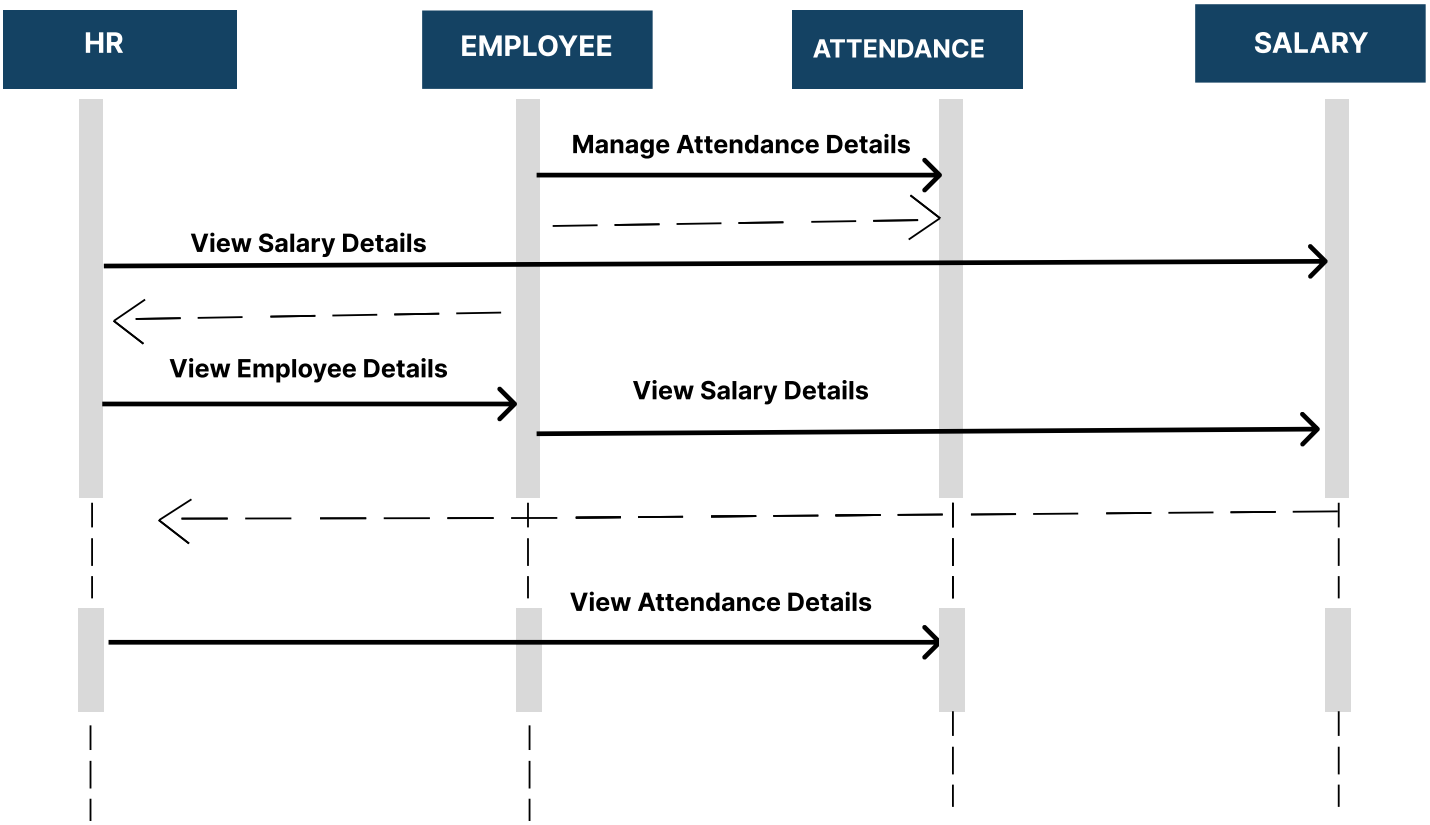



**[Figure: 3.1.2 Use Case Diagram for Employee (Application)]**

## 3.2 Interaction Diagram

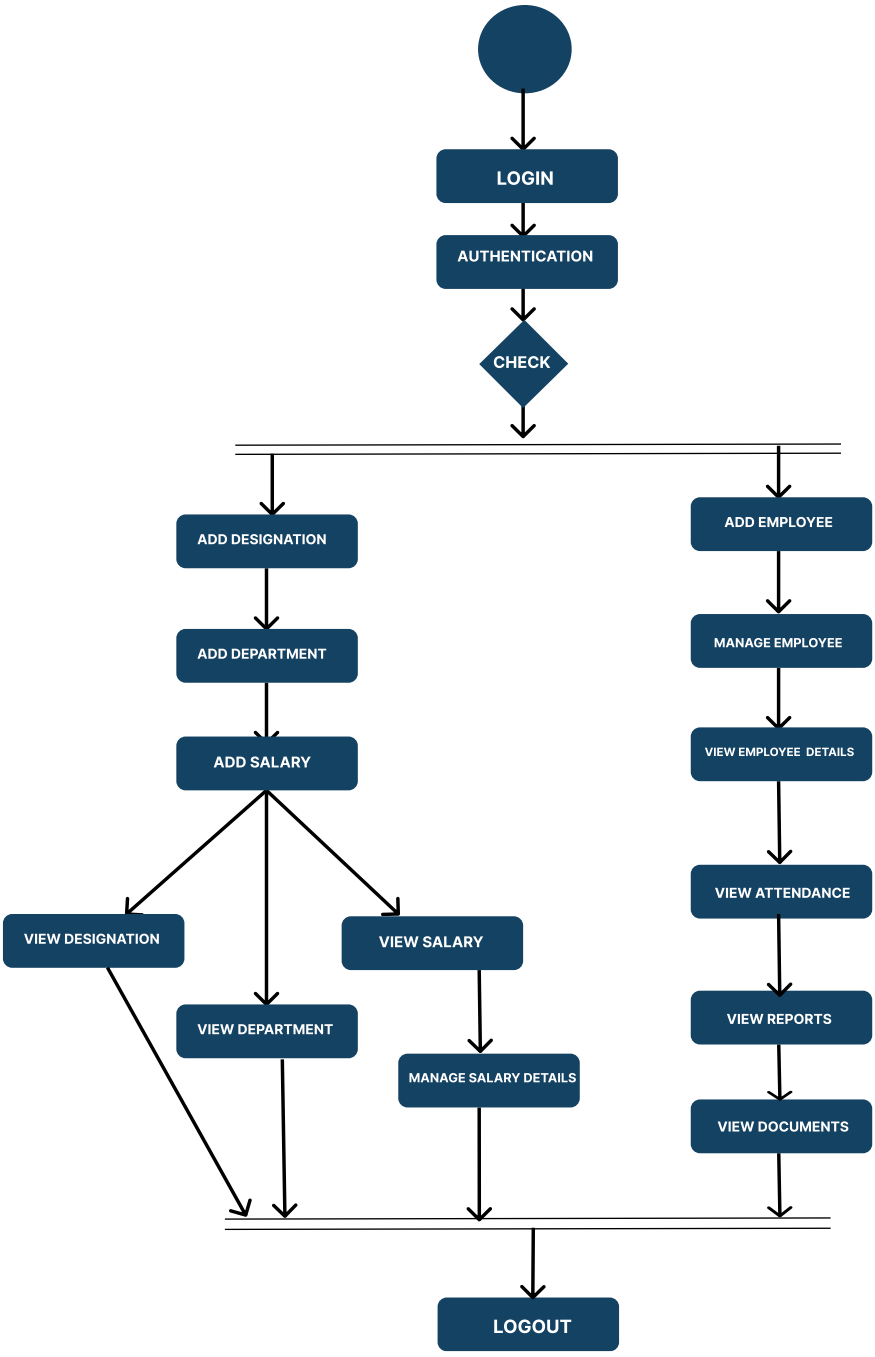



**[Figure: 3.2.1 Interaction Diagram for Admin.]**

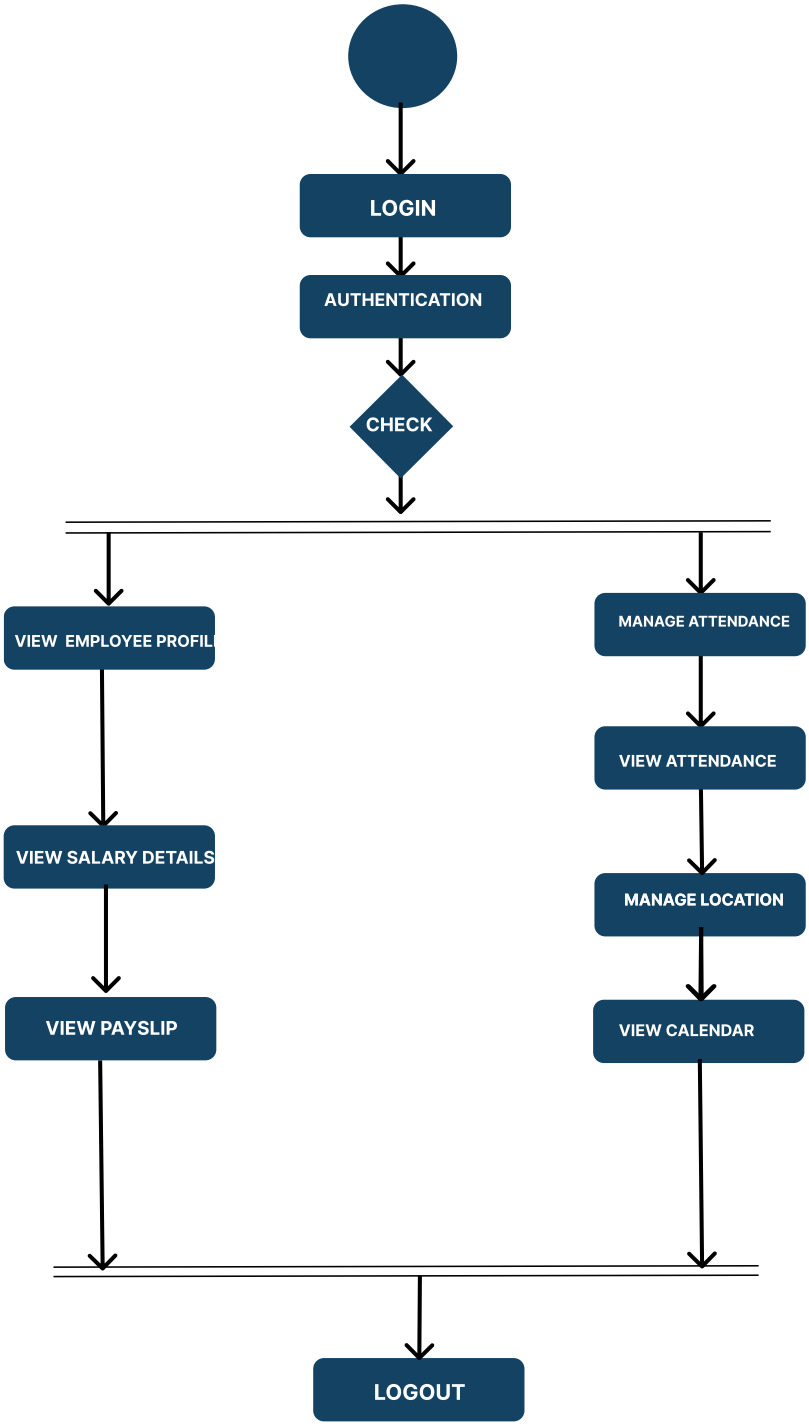



**[Figure: 3.2.1 Interaction Diagram for App.]**

## 3.3Activity Diagram




**[Figure: 3.3.1 Activity Diagram for Web.]**




**[Figure: 3.3.2 Activity Diagram for App.]**

# Chapter-4

## Development

## 4.1 Coding Standard

**Fundamentals**

- AngularJS is a toolset for building the framework most suited to your application development. It is fully extensible and works well with other libraries.

**Naming**

- Include all the words needed to avoid ambiguity for a person reading code where thename is used.
- Omit needless words. Every word in a name should convey salient information at theuse site.
- Name variables, parameters, and associated types according to their roles, rather thantheir type constraints.

**Conventions**

- **Essential:** These rules help prevent errors, so learn and abide by them at all costs.
- **Strongly Recommended:** These rules have been found to improve readability and/ordeveloper experience in most projects.
- **Recommended:** Where multiple, equally good options exist, an arbitrary choice can be made to ensure consistency. In these rules, we describe each acceptable option andsuggest a default choice.

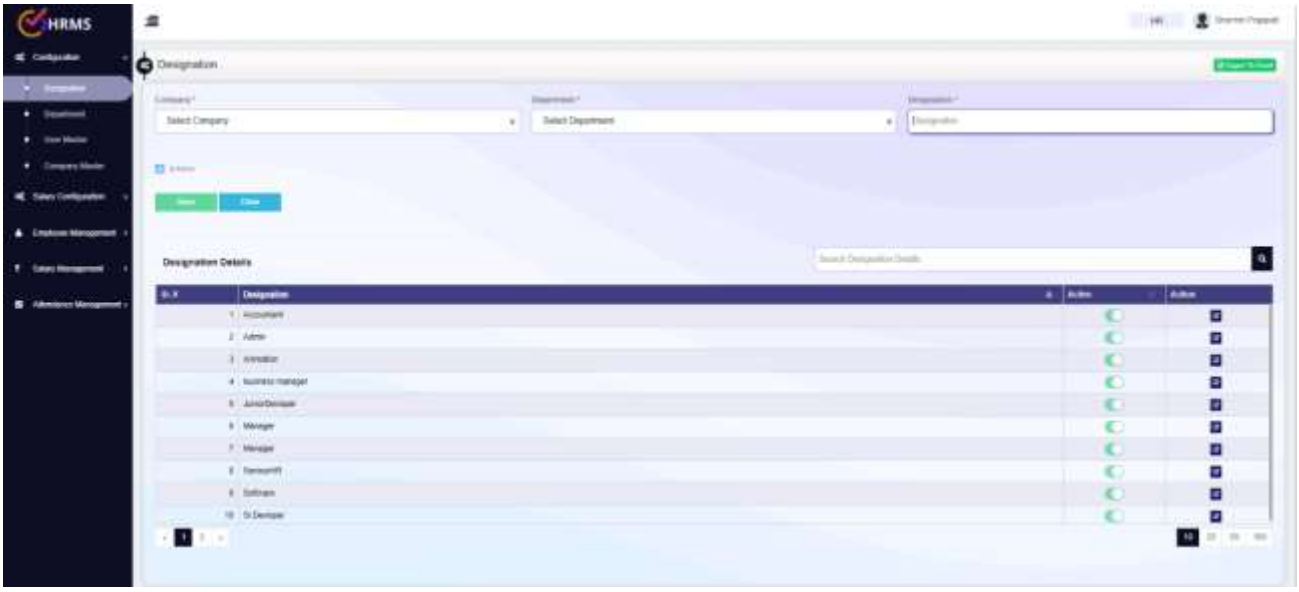
**File Format**

- The most basic Angular js project will include an HTML, JavaScript, css, and JQuery Ionic file.

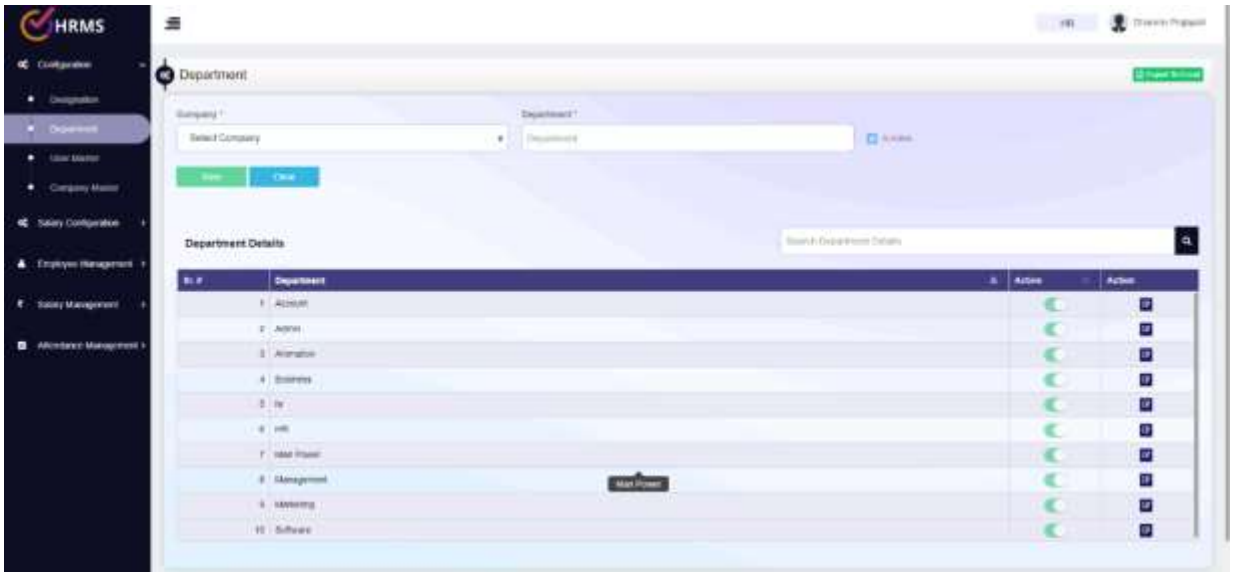
## 4.1 Screenshots

### LOGIN PAGE

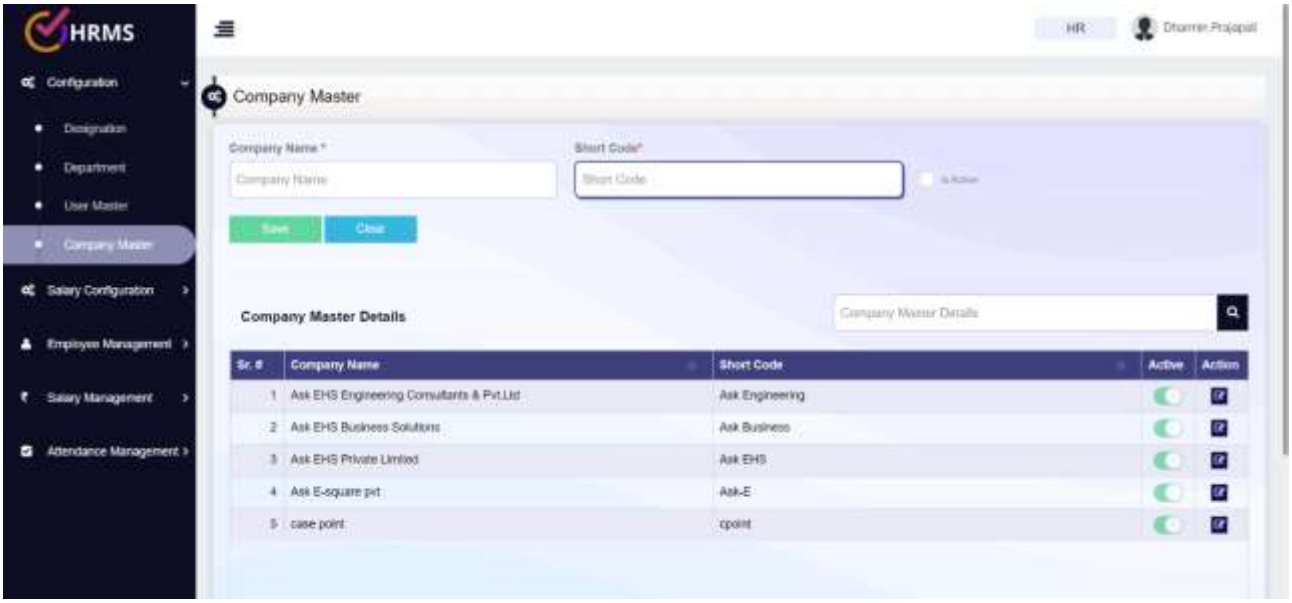
### DESIGNATION VIEW(MASTER PAGE)



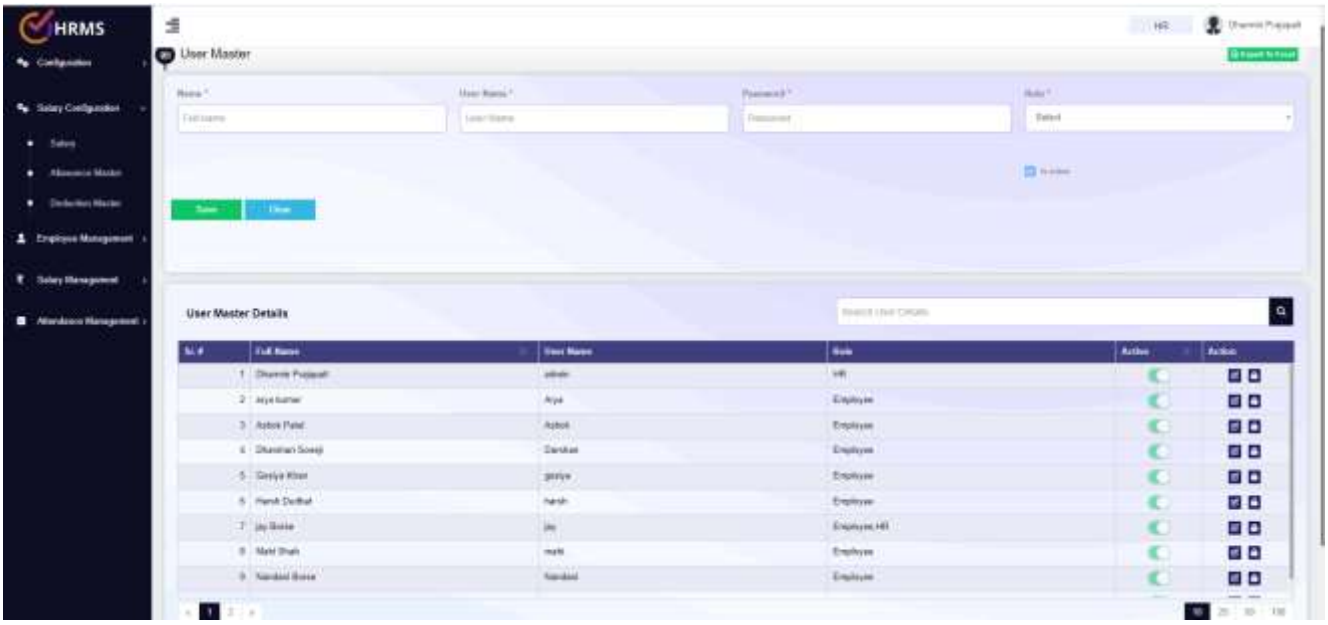
# DEPARTMENT VIEW (MASTER PAGE)



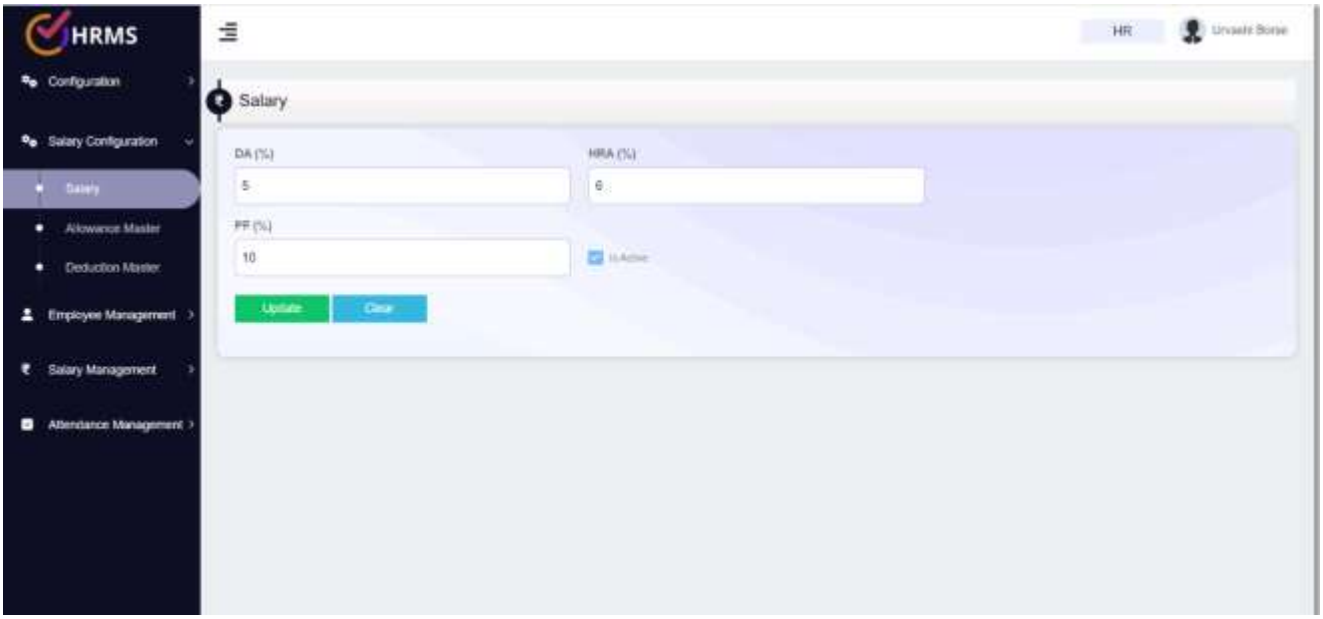

# COMPANY MASTER



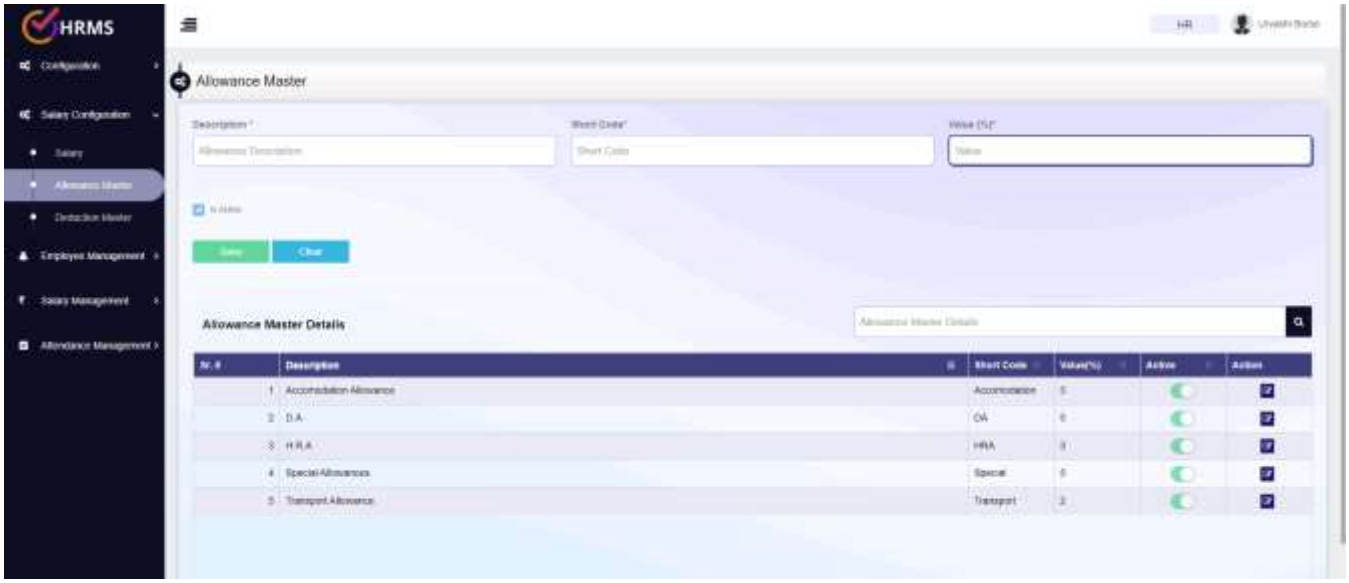
# USER MASTER (MASTER PAGE)



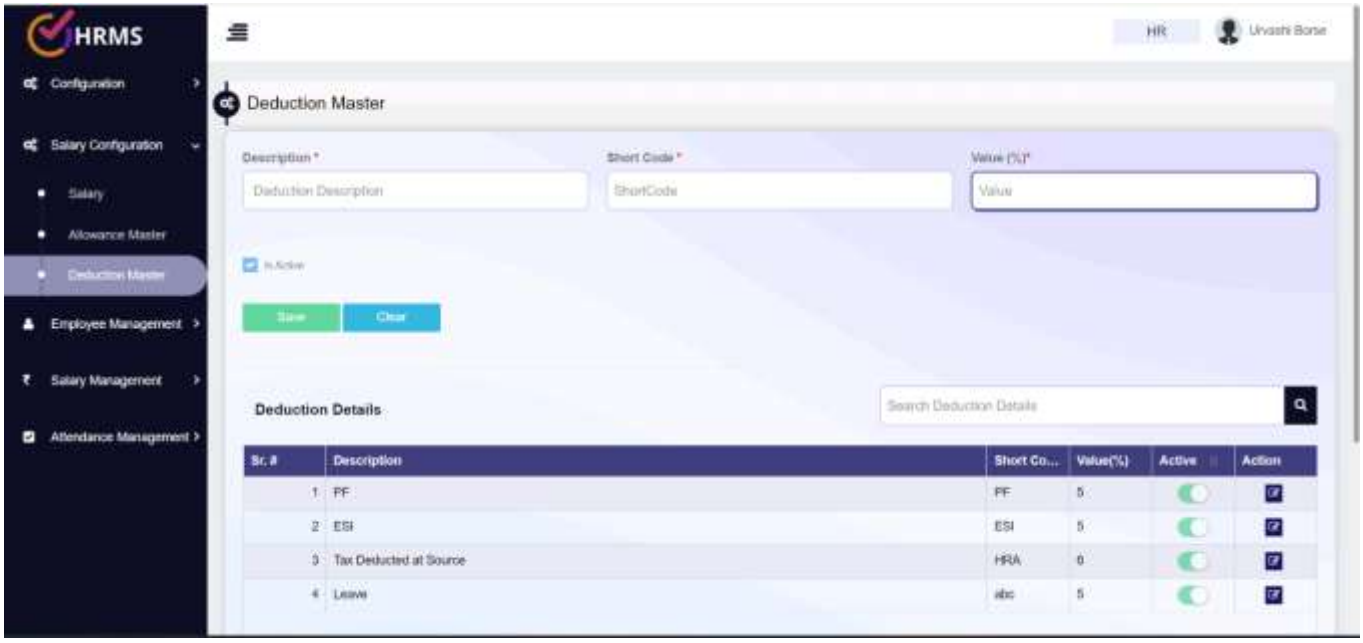

# SALARY MASTER



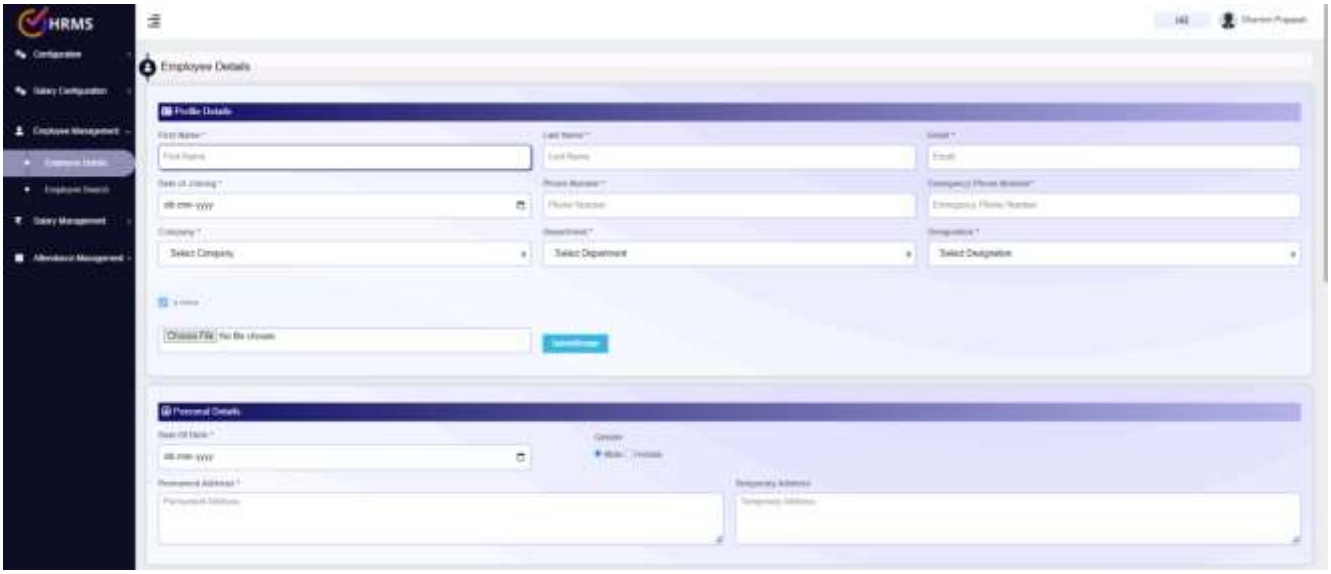
# ALLOWANCE MASTER

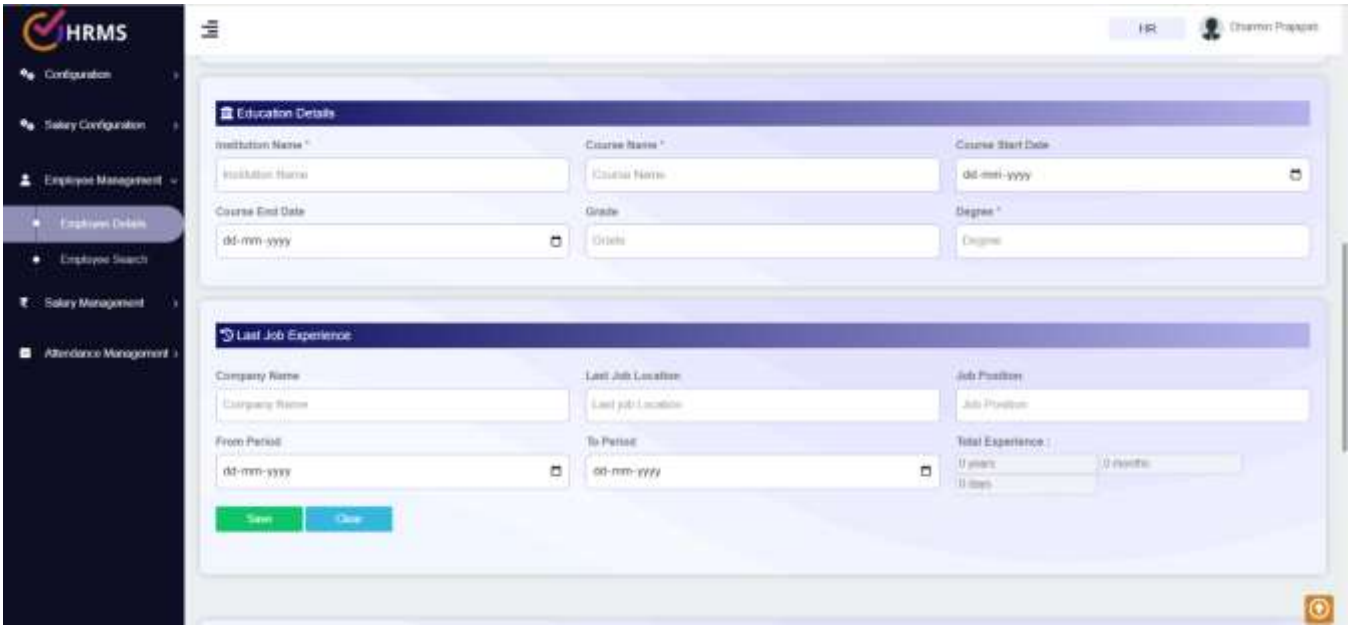


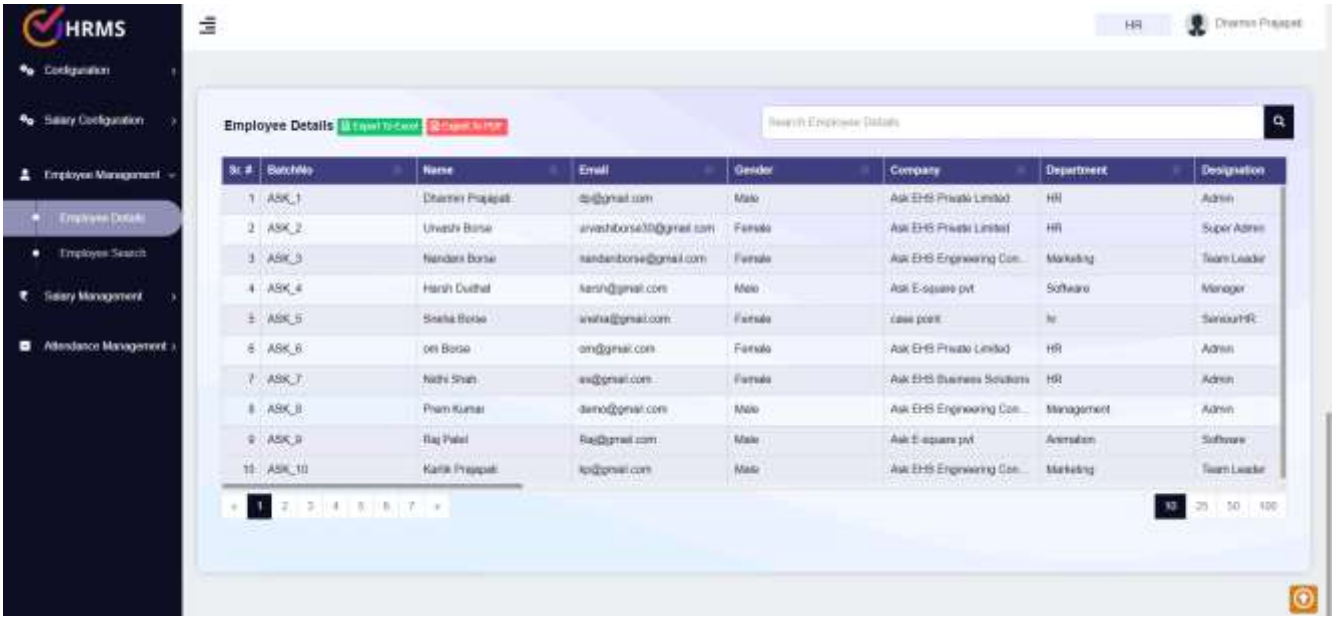

# DEDUCTION MASTER



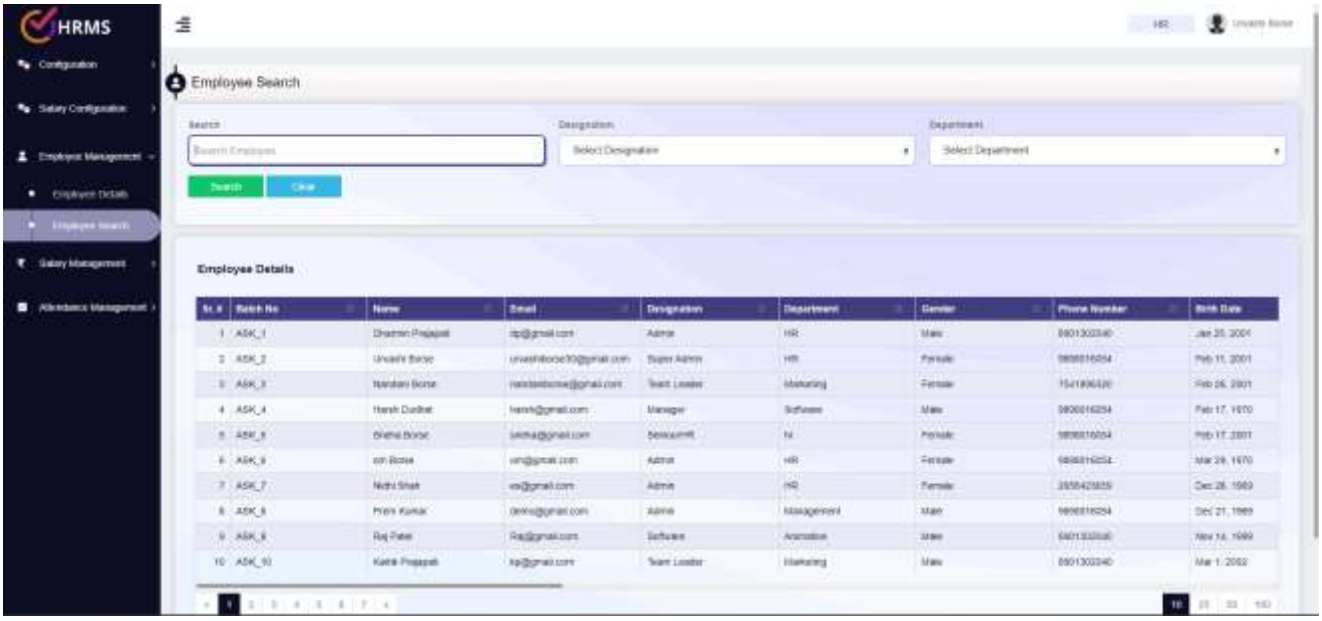
# EMPLOYEE MANAGEMENT



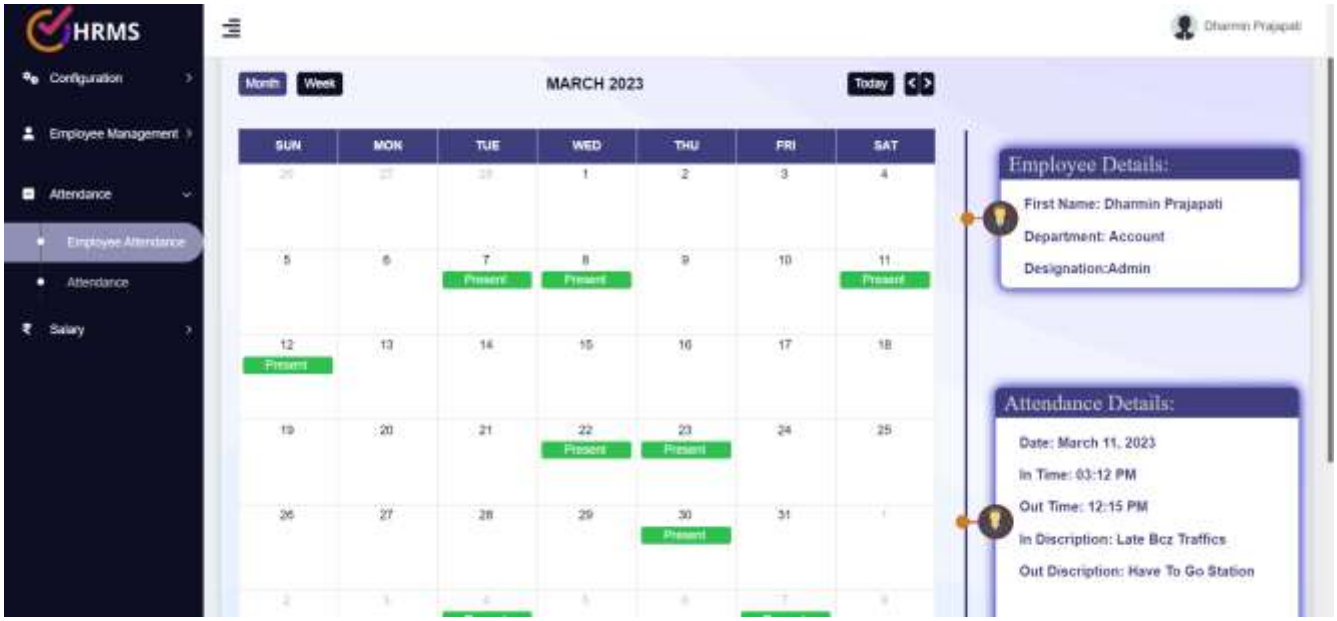





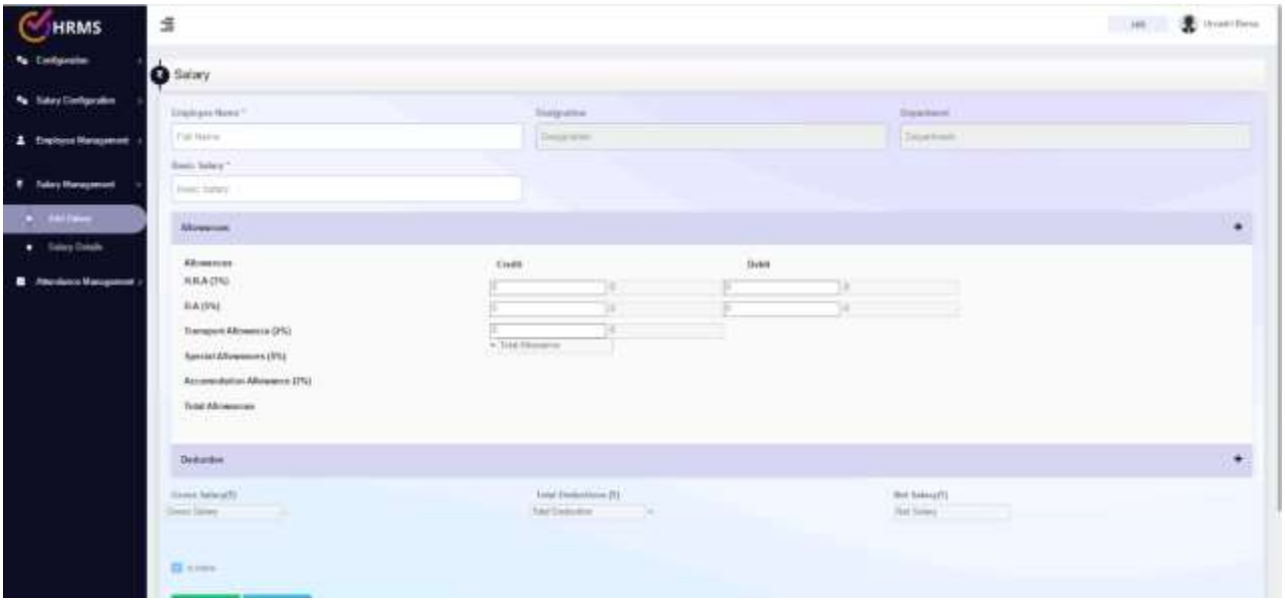

# EMPLOYEE SEARCH

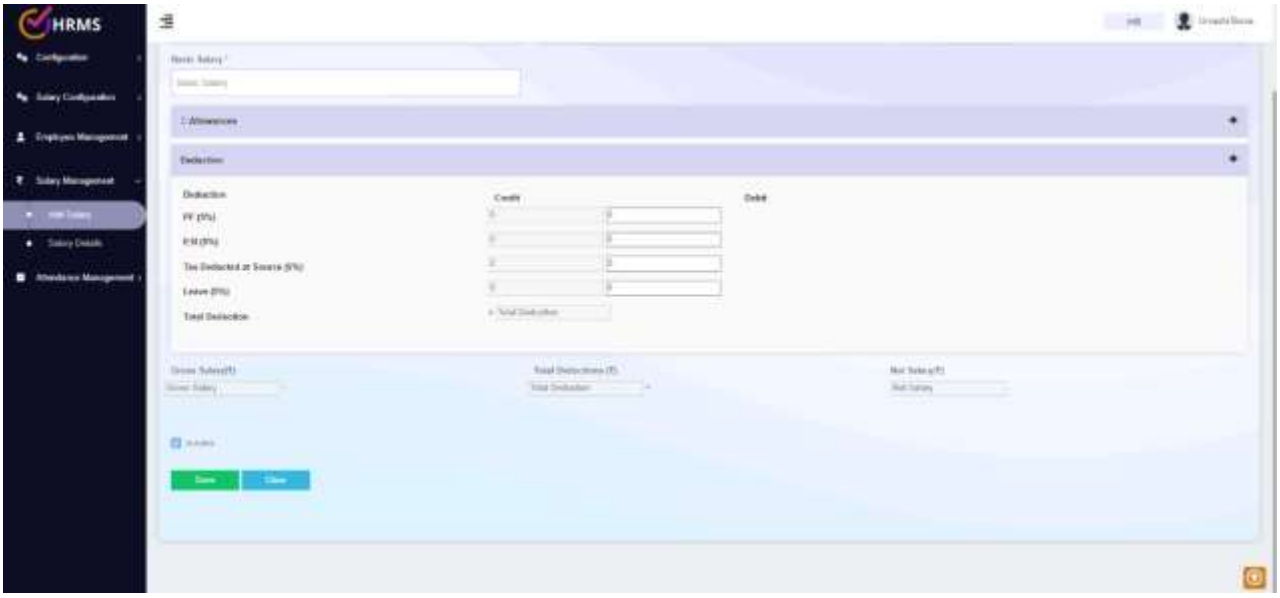


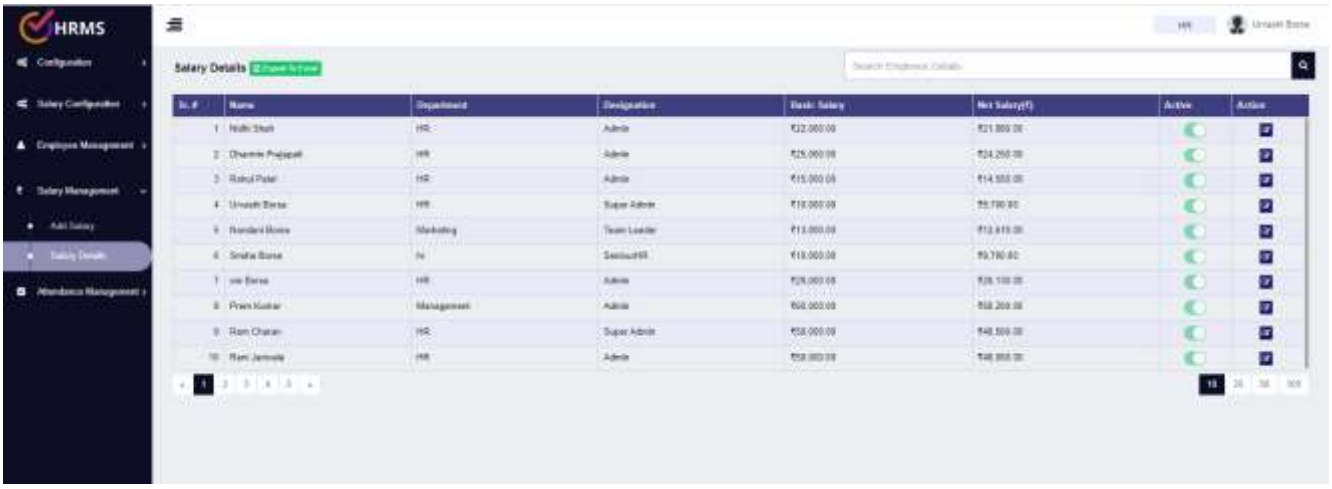
# ATTENDANCE CALENDAR

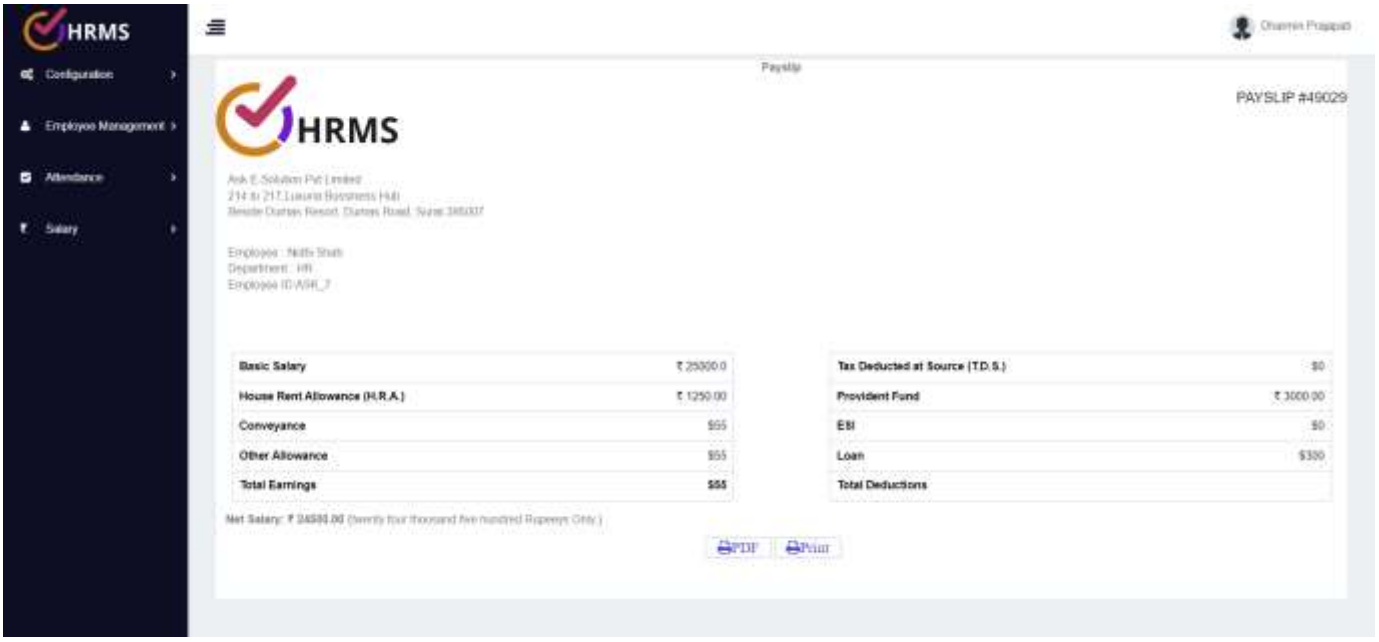


# SALARY MANAGEMENT

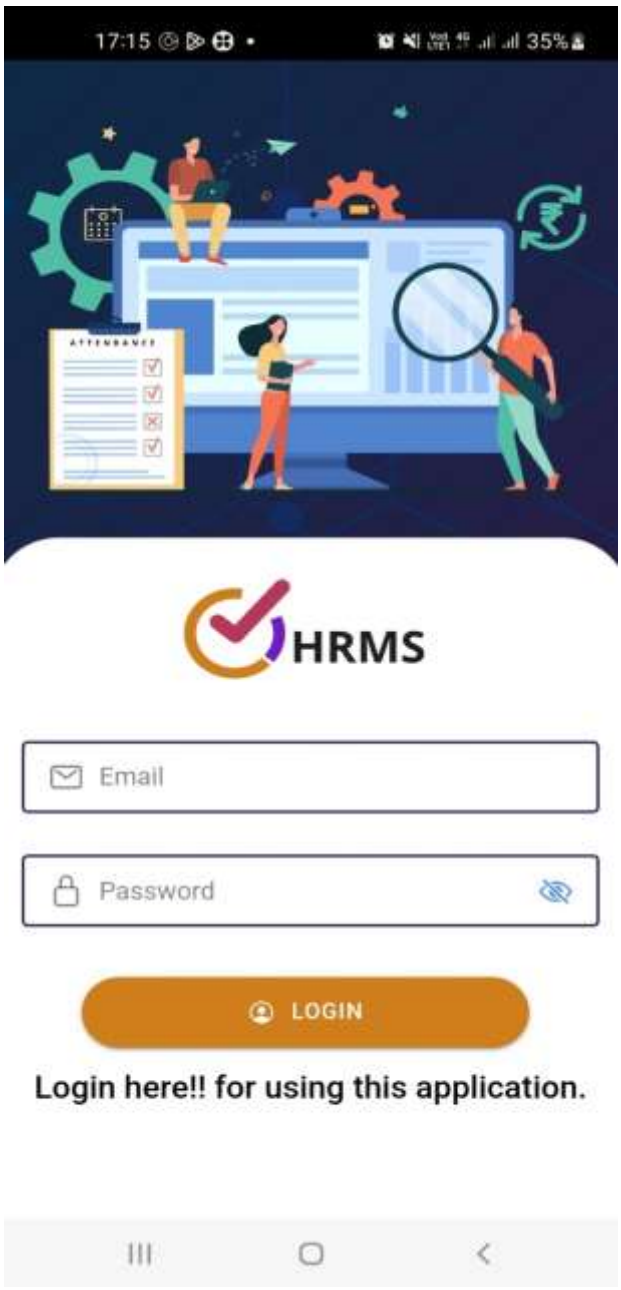


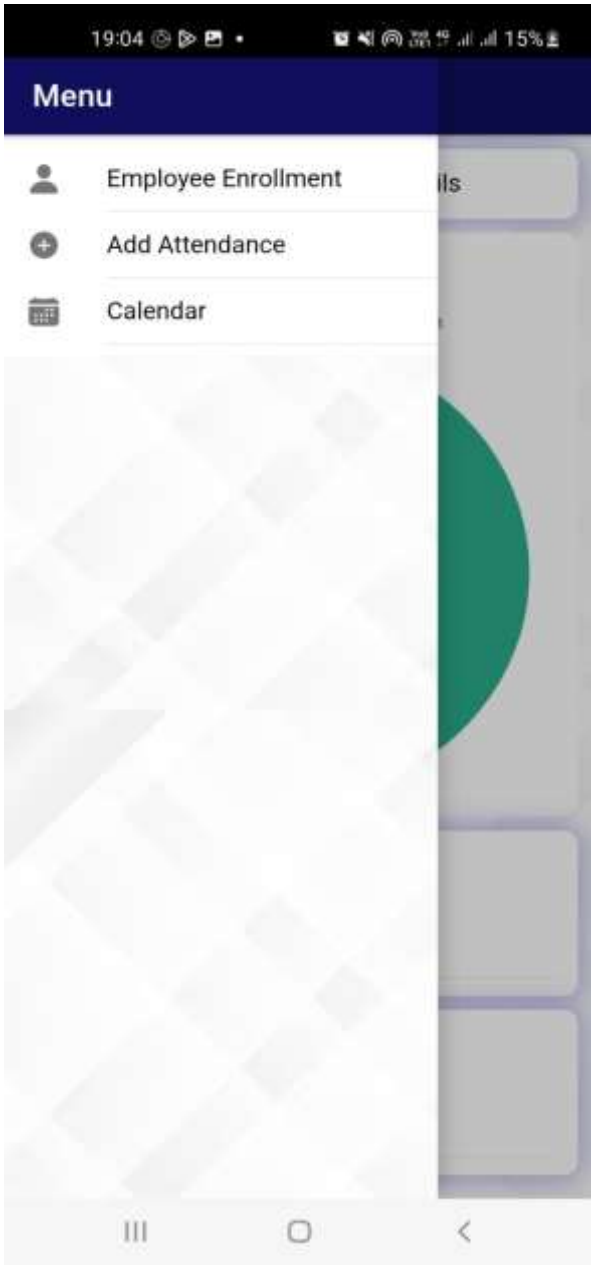

HRMS
Salary Details
Name
Department
Designation
Basic Salary
Net Salary(₹)
Active
Action


HRMS
Configuration
Employee Management
Attendance
Salary
Payslip
PAYSLIP #49029
HRMS
Basic Salary
₹ 25000.0
House Rent Allowance (H.R.A.)
₹ 1250.00
Conveyance
$55
Other Allowance
$55
Total Earnings
$55
Tax Deducted at Source (T.D.S.)
$0
Provident Fund
₹ 3000.00
ESI
$0
Loan
$300
Total Deductions
PDF
Print

19:11
16%
Find Location Here!!
We don't have your location, yet!
Set your location to start using this App
ENABLE DEVICE LOCATION

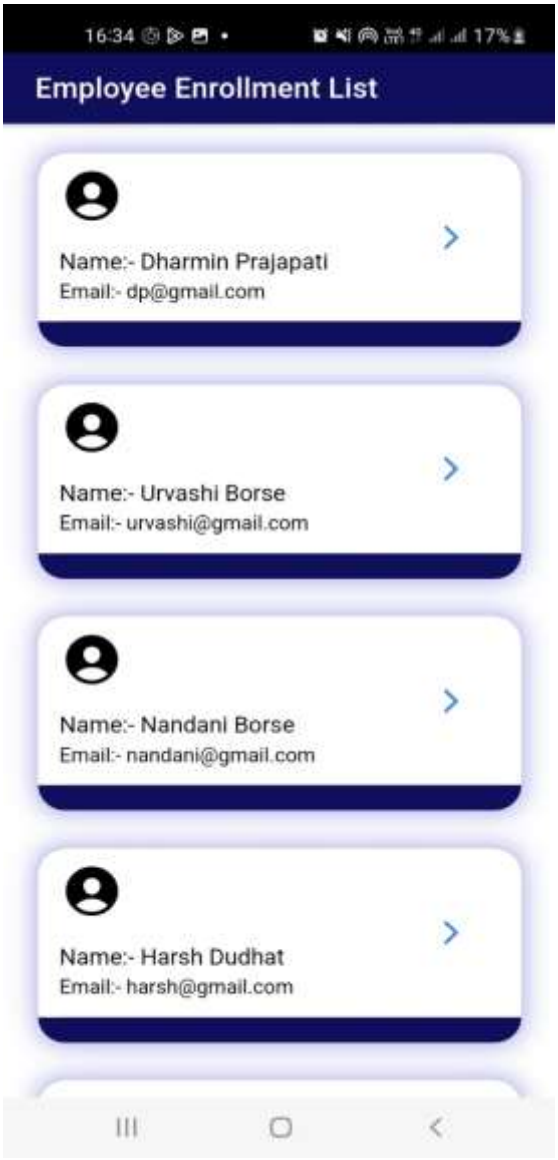

17:15
35%
HRMS
Email
Password
LOGIN
Login here!! for using this application.

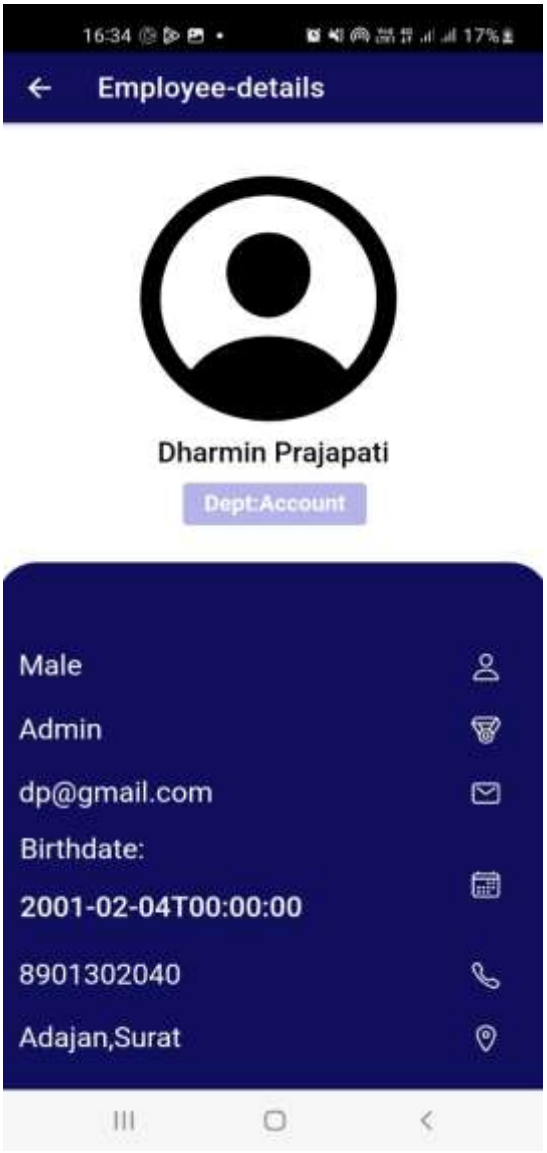
16:44
34%
Home
Employee Attandance Details
Attendance Progress
Punch-in
Current-time
7 hrs: 44 mins
Punch In
14 Apr 2023
11:03
Punch out
14 Apr 2023
11:12


19:04
15%
Menu
Employee Enrollment
Add Attendance
Calendar

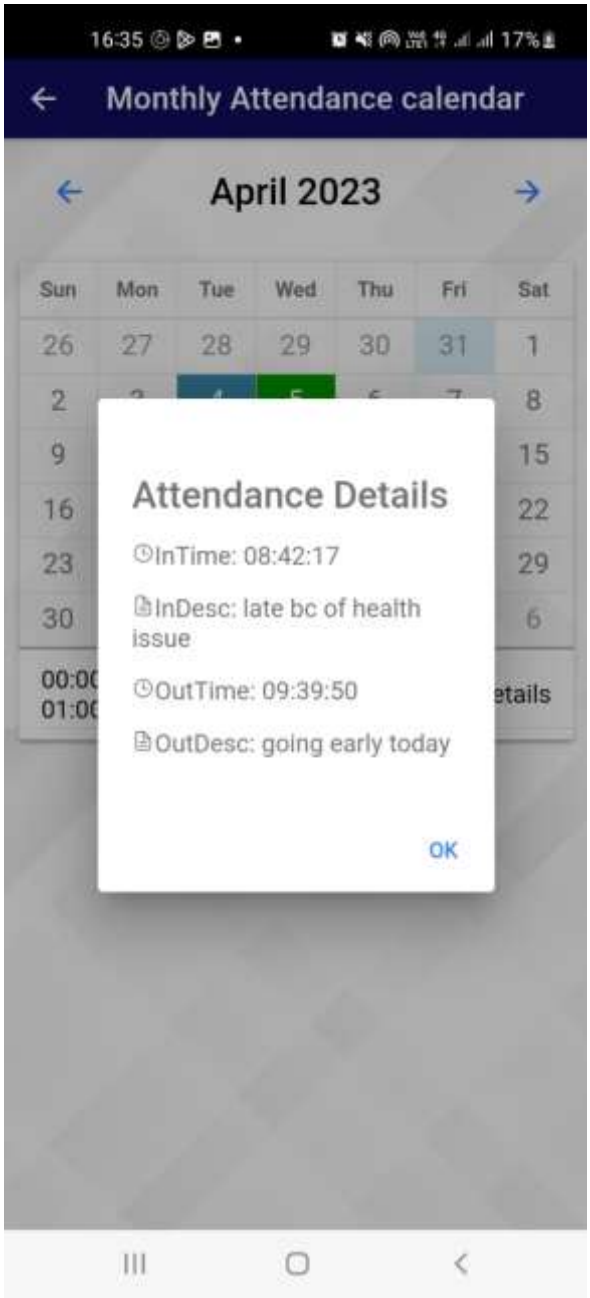
16:59
34%
Add-attendance
Punch In
Enter Description
ADD ATTENDANCE
Click here !! For your Attendance.

17:02
35%
Add-attendance
Punch Out
Enter Description
PUNCH OUT
Click here !! For your Attendance


16:34
Employee Enrollment List
Name:- Dharmin Prajapati
Email:- dp@gmail.com
Name:- Urvashi Borse
Email:- urvashi@gmail.com
Name:- Nandani Borse
Email:- nandani@gmail.com
Name:- Harsh Dudhat
Email:- harsh@gmail.com


16:34
Employee-details
Dharmin Prajapati
Dept:Account
Male
Admin
dp@gmail.com
Birthdate:
2001-02-04T00:00:00
8901302040
Adajan,Surat

16:28
Attendance
April 2023
Sun Mon Tue Wed Thu Fri Sat
26 27 28 29 30 31 1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 1 2 3 4 5 6
No Events


16:35
Monthly Attendance calendar
April 2023
Sun Mon Tue Wed Thu Fri Sat
Attendance Details
InTime: 08:42:17
InDesc: late bc of health issue
OutTime: 09:39:50
OutDesc: going early today
OK

# Chapter-5

## Agile Documentation

## 5.1 Agile Project Charter

| General Project Information | |
|---|---|
| **Vision:** | **The main purpose of the project is to offercomplete solution of the need by inspection companies** |
| **Objective:** | **HR can handle all Employee information like personal data, Attendance, Salary, Etc.** |
| **Organization:** | **ASK E-Square Business Solutions Pvt. Ltd..** |
| **Success Criteria:** | **Employee Data can easily handled** |
| **Project Size Estimate:** | **Large scale project - total roles are HR, Employee** |
| **Technology:** | **Web application(Angular JS, .Net MVC, Ionic)** |
| **Approaches:** | **Strategies, methodologies, processes, tools, andtechniques the team will follow.** |

## 5.2 Agile Roadmap/Schedule

| Home Inspector Tech | **February 9-20** | **February 21-28** | **March** 1 - 10 | **March** 10-20 | **March 21-30** | **April 1-15** |
|---|---|---|---|---|---|---|
| Learning Angular JS, Ionic, Bootstrap .Net | | | | | | |
| Some Task Complete in Angular JS and .Net ,Design | | | | | | |
| Address Book Project For GitHub | | | | | | |
| Refer Project | | | | | | |
| Find New Module | | | | | | |
| Create Plan Module and Testing | | | | | | |
| Project Related language Change | | | | | | |
| Some Bugs slove, testing And document | | | | | | |

## 5.3 Agile Roadmap/Schedule

| 1st QUARTER | 2nd QUARTER |
|---|---|
| **9-02-2023 to 20-02-2023**<br>**Understand project definition, gatherrequirement and finalize the project scope.** | **21-02-23 to 10-03-2023**<br>**We design the system and drawvarious diagram such as:**<br>• **Use Case Diagram**<br>• **Interaction Diagram**<br>• **Data Dictionary** |
| **3rd QUARTER** | **4th QUARTER** |
| **11-03-2023 to 25-03-2023**<br>**We implement the crude operation ofthe project, tested the module and documentation is prepared side by side.** | **26-03-2023 to 05-04-2023**<br>**We integrate all modules and testedoverall system; whatever changes happen are incorporated also documentation is made side by side.** |
| **FINAL QUARTER** | |
| **14-04-2023**<br>**Final presentation and final documentation to be done.** | |

## 5.4 Agile User Story

A user story is a tool used in agile software development to capture a description of a software feature from other organization perspective. A user story describes the type of user, what they want and why. A user story helps to create a simplified description of a requirement.

| Sr no. | Module Name | Description |
|---|---|---|
| User Story 1 | Storage detail | The detail for different type of storing facility. |
| User Story 2 | Plan | Organization check the plan an after purchase the plan |
| User Story 3 | Developer | Login and check activity |

## 5.5 Agile Release Plan

| TASK NAME | RESPONSIBLE | START | END | DAYS | STATUS |
|---|---|---|---|---|---|
| SPRINT 1 | **Nandani Urvashi** | **9/02/23** | **22/02/23** | **13** | Complete |
| Project Definition | **Gosiya Dharmin Anjali** | **9/02/23** | **18/02/23** | **9** | Complete |
| Gather Requirement | **Nandani Urvashi Gosiya Dharmin Anjali** | **18/02/23** | **29/02/23** | **11** | Complete |
| Project scope | **Dharmin Anjali** | **29/02/23** | **05/03/23** | **7** | Complete |
| SPRINT 2 | **Nandani Urvashi Gosiya Dharmin Anjali** | **05/03/23** | **23/03/22** | **18** | Complete |
| Use Case Diagram | **Anjali** | **05/03/23** | **07/03/23** | **2** | Complete |
| Activity Diagram | **Urvashi Gosiya** | **08/03/23** | **10/03/23** | **2** | Incomplete |
| Sequence Diagram | **Dharmin Anjali** | **10/03/23** | **13/03/23** | **3** | Incomplete |
| SPRINT 3 | **Nandani Gosiya Anjali** | **13/03/23** | **20/03/23** | **7** | Complete |
| Testing characters | **Nandani Urvashi Gosiya Dharmin Anjali** | **13/03/23** | **01/04/23** | **19** | Complete |
| Test the Module | **Nandani Urvashi Gosiya Dharmin Anjali** | **14/03/22** | **25/03/22** | **11** | Complete |
| Documentation | **Nandani Urvashi Gosiya** | **26/03/22** | **01/04/21** | **7** | Incomplete |

| | | | | | |
|---|---|---|---|---|---|
| | **Dharmin Anjali** | | | | |
| SPRINT 4 | **Nandani Urvashi Gosiya Dharmin Anjali** | **02/04/22** | **04/04/22** | **3** | Complete |
| Integrate Modules | **Anjali** | **05/04/22** | **05/05/22** | **30** | Complete |
| Test System | **Nandani Urvashi Gosiya Dharmin Anjali** | **05/04/22** | **10/04/22** | **5** | Complete |
| Changes Incorporated | **Nandani Urvashi Gosiya Dharmin Anjali** | **10/04/22** | **25/04/22** | **15** | Complete |
| Documentation | Nandani Urvashi Gosiya Dharmin Anjali | 26/04/22 | 30/04/22 | 4 | Complete |

## 5.6 Agile Test Plan

| | | | | | |
|---|---|---|---|---|---|
| **PROJECT NAME** | HUMAN RESOURCE MANAGEMENT SYSTEM | | | **BROWSER** | **GOOGLE CHROME** |
| **WRITTEN BY** | Nandani Borse(ET21MTCA007)<br>Urvashi Borse(ET21MTCA008)<br>Gosiya Khan (ET21MTCA037)<br>Dharmin Prajapati (ET21MTCA074)<br>Anjali Shimpi(ET21MTCA093) | | | **DESCRIPTION** | **09-02-2023** |
| **TESTED BY** | Nandani Borse(ET21MTCA007)<br>Urvashi Borse(ET21MTCA008)<br>Gosiya Khan (ET21MTCA037)<br>Dharmin Prajapati (ET21MTCA074)<br>Anjali Shimpi(ET21MTCA093) | | | **TESTED ON** | **25-04-2023** |
| **TEST #** | **DATE** | **ACTION** | **EXPECTED RESULTS** | **ACTUAL RESULTS** | **PASS** |
| **1** | **27-01-23** | **Understand definition** | **Understand the objective of definition** | **Definition is understood.** | ✓ |
| **2** | **01-02-23** | **Draw diagrams** | **All the diagrams are drawn correctly.** | **Diagrams are completed** | ✓ |
| **3** | **08-02-23** | **organization data** | **All the details of the organization are stored properly.** | **Obtained trained data.** | ✗ |
| **7** | **11-02-23** | **Module Designs** | **Module designed for system** | **Designed successfully** | ✗ |
| **8** | **21-02-23** | **Test the module** | **Module should be error free** | **Module has errors** | ✓ |

| | | | | | |
|---|---|---|---|---|---|
| **9** | **22-03-23** | **Task work flow** | **Check for proper task workflow of the system.** | **completed** | ✓ |
| **10** | **05-03-23** | **Tested overall system** | **System is completed with no errors** | **System works properly** | ✓ |
| **11** | **30-04-23** | **Documentation** | **Report is generated** | **Report generation is completed** | ✓ |

## 5.7 Earned-Value and Burn Chart

# Chapter-6

## Proposed Enhancement

## 6. Proposed Enhancement

- Human resource management is the strategic approach to nurturing and supporting employees and ensuring a positive workplace environment.
- Some module's will be added like leave management or Experience.
- Server will be change in future.

# Chapter-7

## Conclusion

## 7. Conclusion

- The Project is almost complete with all the modules integrated with each other thus, completing the application and making it whole. The client provides further work such as feature requested, live support training, discussion in comment approve.

# Chapter-8

## Bibliography

## 8. Bibliography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