

Interim Report

CST291-2/IIT271-2

Group No: 12

EMPLOYEE MANAGEMENT SYSTEM FOR A COMPANY

Computer Science and Technology

Uva Wellassa University

June 2021

Group Details

GROUP NO: 12

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1 Introduction

1.1 Project Title.

EMPLOYEE MANAGEMENT SYSTEM FOR SOFTWARE COMPANY

1.2 Project Background.

Employee management system is a project, which aims in developing a computerized system to maintain all activities of a software company in order to make Employee Management more efficient and easier to handle. It is the effort to help employees do their best work each day in order to achieve the larger goals of the organization (*Employee Management System*, 2021).

When we handle this system through manually us face lots of struggles. The paper document is less secure compared to technology system. Handling of each and every document and store them safely is not easy. It's not only about security but also about transporting or carrying out documents at different places. It takes more effort and physical space to keep track of paper documents, to find information, make changes and to keep details secure. So we reduce these problems by using technological way.

Employee Management system is a new digital technology that allow the company's business to automate manual processes. This project has many features, which are generally not available in manual Employee management systems. Achieving effective and efficient employee management system through an innovative system can drive businesses to the next level with increased productivity and employee satisfaction. It is a platform where all work-related as well as important personal details of an employee is stored and managed in a secure way.

Overall this project of ours is being developed to maintain the whole company in the best way possible and also reduce the human efforts. This system is useful for running a smooth organization. The goals of this project are to provide simplicity as well as security and efficiency to the management of Company. Throughout the project the focus has been on handling the all thing in an easy and intelligible manner and increasing the targets of the company.

1.3 Project aims / objectives

The project aims and objectives that will be achieved after completion of this project are which is expecting to accomplish. It is discussed in project background. The aims and objectives are as follows:

- Provide an improvement in control and performance.
- Provide the job vacancy details through the advertisements and announcements to the user.
- Increasing the rate at which projects are completed accurately by employees.
- It tends to be more accurate rather than manual system.
- To facilitate the HR manager and administrator to manage their works easily.
- To maintain the employee details and financial details easily by the administrator.
- Save time and cost.
- Provide an option of feedback.
- Provide safety and performance to the management of company.
- Provide 24/7 service.

2 High level System Design.

2.1 Use Case Diagram.

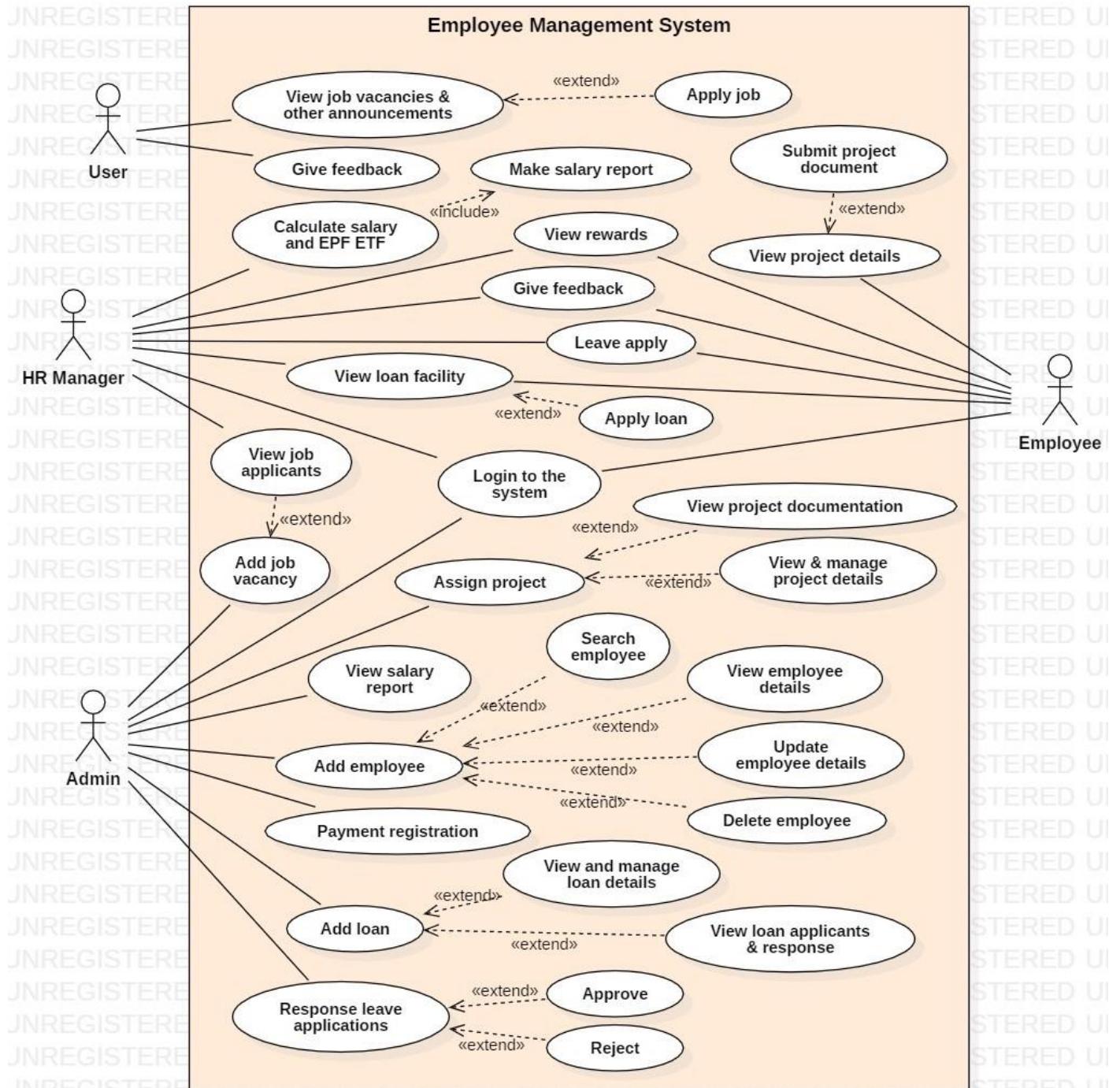


Figure 2:1 Use Case Diagram of Employee management system.

2.2 Class Diagram.

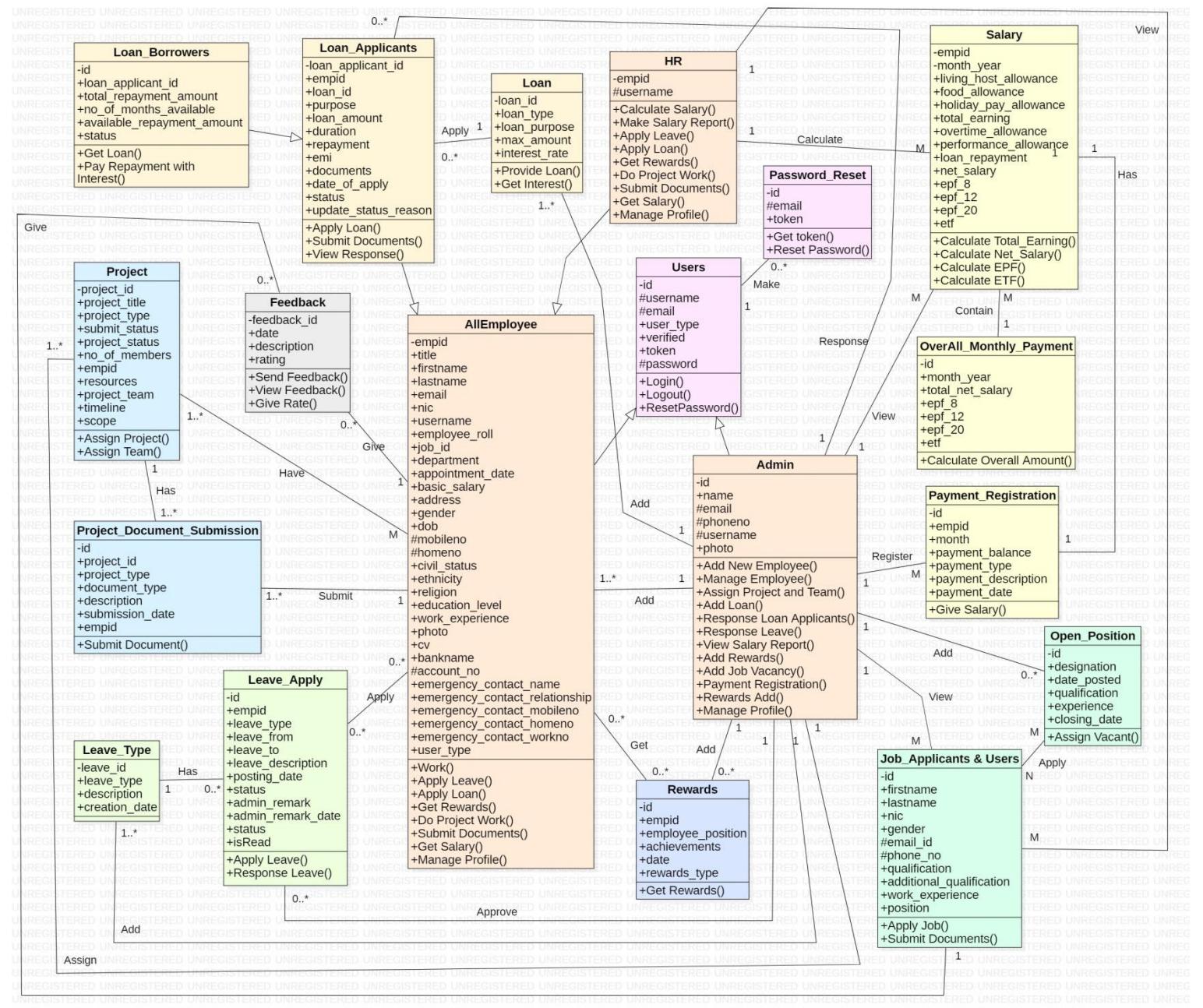


Figure 2:2 Class Diagram of Employee management systems.

3 Database Design.

3.1 ER Diagram.

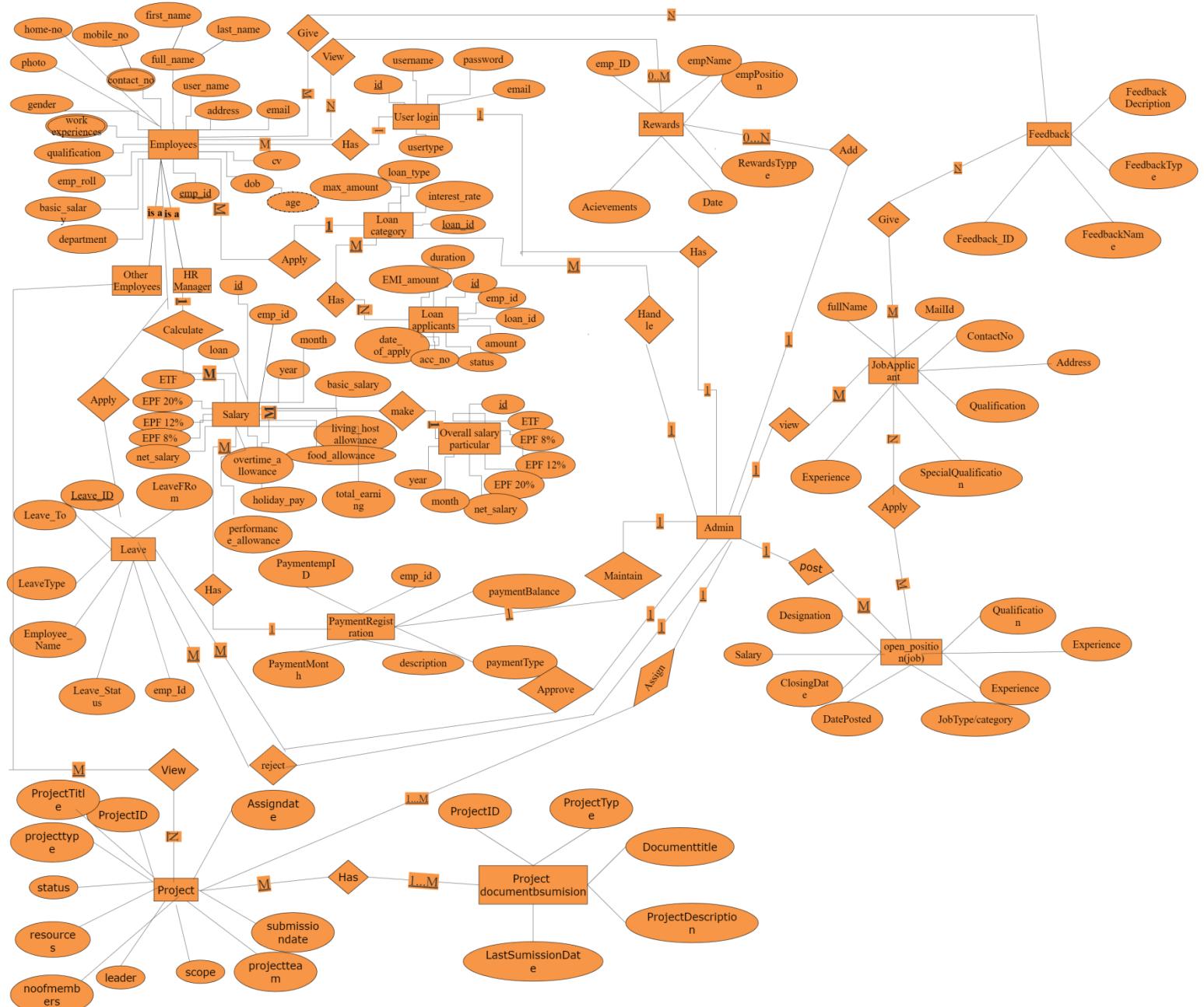


Figure 3:1 ER Diagram of Employee management system.

4 Progress of the project

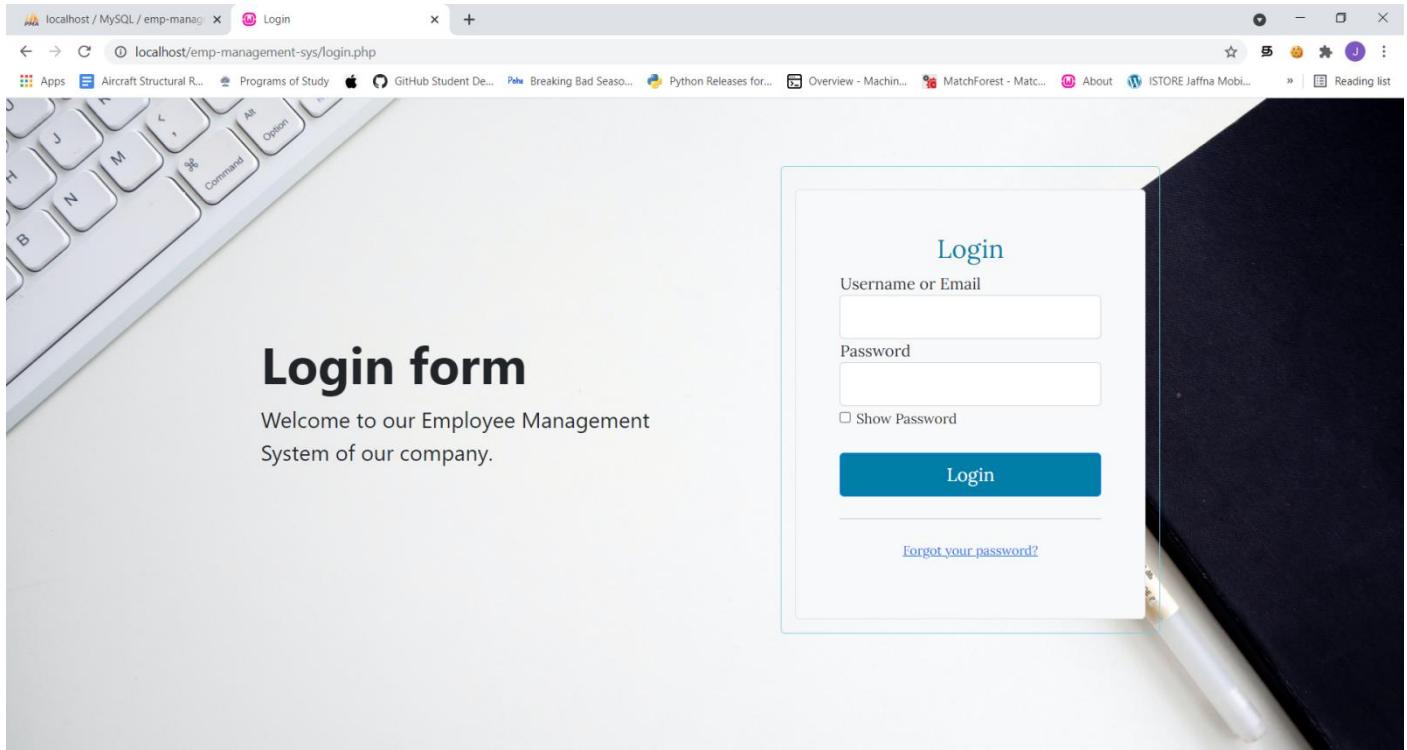


Figure 4.1 Login Page

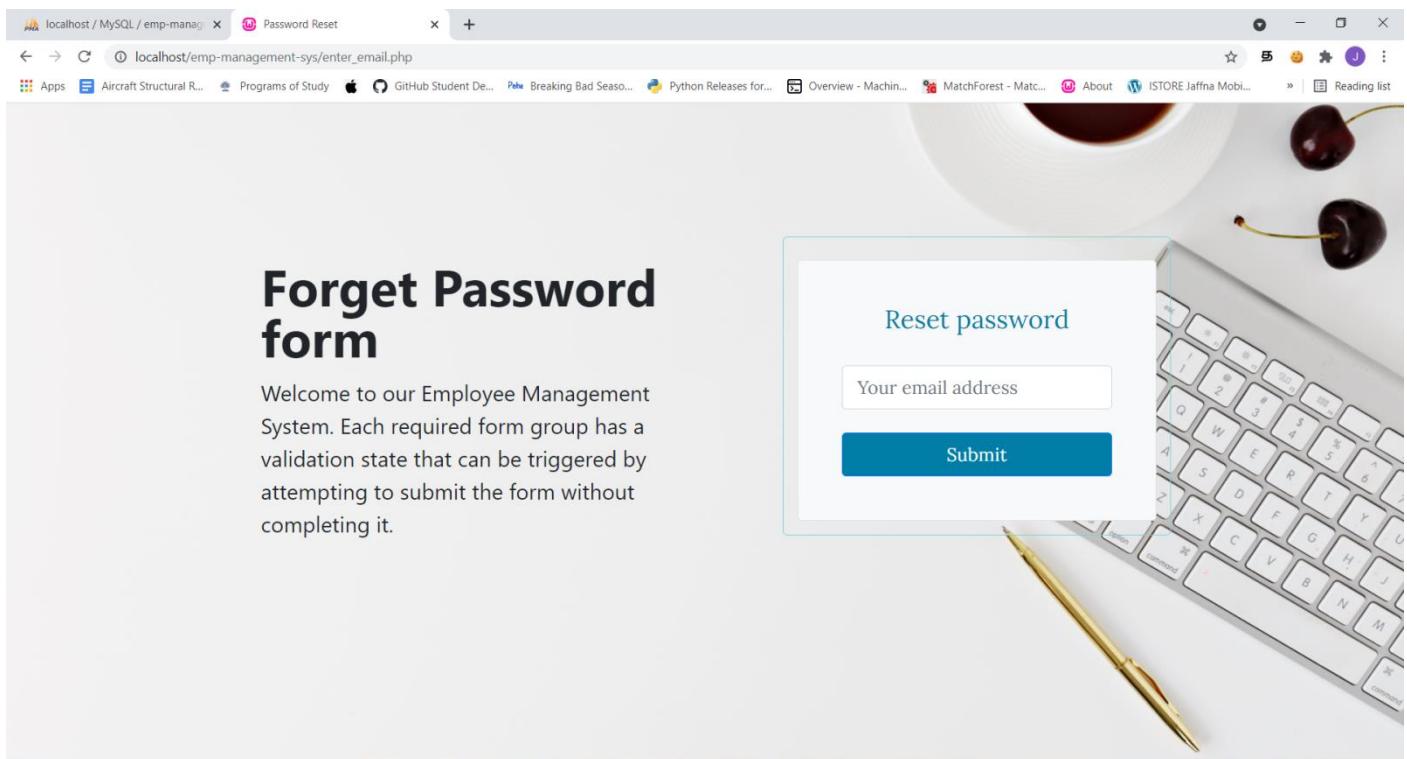


Figure 4.2 Forget password

ADMIN

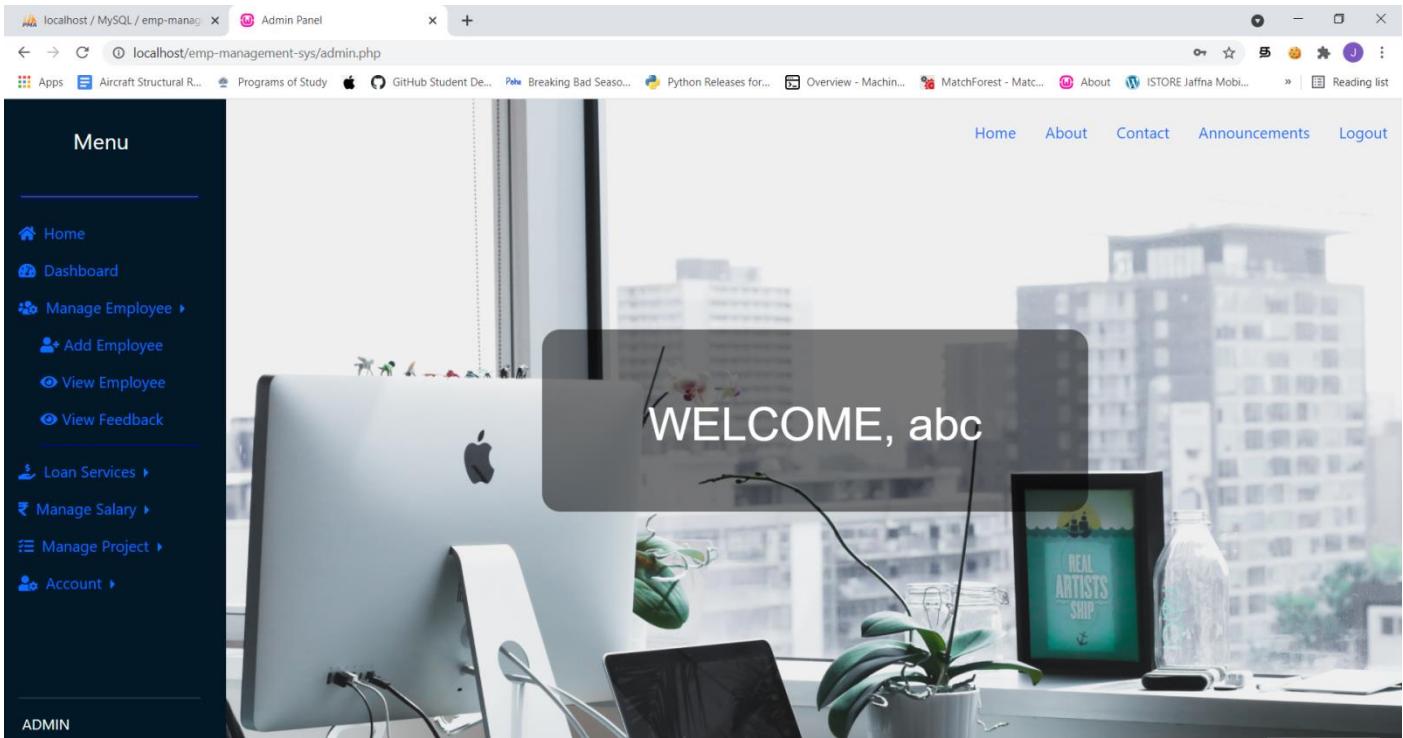


Figure 4.3 Admin Page

The screenshot shows the 'Employee Registration' page. The left sidebar is identical to Figure 4.3. The main form is titled 'Employee Registration' and includes sections for 'Employee Personal Details' and 'Employee Details'. The 'Employee Personal Details' section contains fields for Name (Name, Title*, First name*, Last name*), Email address*, NIC No*, Username*, Password*, and Show Password. The 'Employee Details' section contains dropdowns for Employee Roll* (Choose...) and Department* (Choose...), and fields for Appointment Date* (mm/dd/yyyy) and Basic Salary (Rs.)*. The background of the form features a photograph of a keyboard and cherries.

Figure 4.4 Employee Registration Page

The screenshot shows the 'Employee Details' section of the admin panel. It features a decorative background with a starry pattern and a small icon of two people. The table lists three employees:

Emp-ID	Photo	Name	Email	Mobile-No	Emp-Roll	Department	Manage
EM001		Mr. Ravi Sekar	ravi@gmail.com	0758541520	HR	HR	View All Update Delete
EM002		Miss. Mathu Joshap	mathu@gmail.com	0778541236	Director	Finance	View All Update Delete
EM003		Mr. David Silva	david@gmail.com	0754512520	Assist-Manager	HR	View All Update Delete

Figure 4.5 View All Employee Details

The screenshot shows the 'Employee Details - Ravi Sekar' page. It displays the following details:

Employee Details	
EmpID	EM001
Full Name	Mr. Ravi Sekar
Email	ravi@gmail.com
NIC	918541010v
Employee Roll	HR
Department	HR
Appointment Date	2021-01-04
Basic Salary	Rs. 40000.00
Address	Colombo
Gender	Male
Date Of birth	1991-01-07
Mobile No	0758541520
Home No	
Civil Status	Single
Ethnicity	Tamil

On the right side of the table, there is a photo of Mr. Ravi Sekar.

Figure 4.6 View an Employee Details

localhost / MySQL / emp-management-sys Admin Panel

localhost/emp-management-sys/admin.php?pg=a_updateempdetails.php& eid=EM001

Menu

- Home
- Dashboard
- Manage Employee
- Loan Services
- Manage Salary
- Manage Project
- Account

ADMIN

Update Employee Details



Employee Work Details

Employee ID EM001	Full Name * Mr. Ravi Sekar
Appointment Date * 01/04/2021	
Employee Roll * HR	
Department * HR	
Basic Salary * 40000.00	

Are you sure update this account?

Figure 4.7 Admin updates Employee's work details

localhost / MySQL / emp-management-sys Admin Panel

localhost/emp-management-sys/admin.php?pg=a_addloan.php

Menu

- Home
- Dashboard
- Manage Employee
- Loan Services
- Manage Salary
- Manage Project
- Account

ADMIN

Add Loan Category

Loan Type *
Maximum-Amount *
Purpose *
Interest-Rate (%) *

SUBMIT **RESET**

Figure 4.8 Add Loan Category

Loan Details

Loan-ID	Loan-Type	Loan-Purpose	Maximum Loan Amount	Interest-Rate	Manage
L001	Home Loan	Housing, purchase of land, construction	1000000	11.00%	Update Delete
L002	Vehicle Loan	Vehicle	500000	7.50%	Update Delete
L003	Education Loan	For higher education	300000	7.00%	Update Delete

Figure 4.9 View Loan Details

Loan Applicants Details

Loan-ApplicantID	Employee Name	Loan-Type	Loan-Amount	Duration (Years)	Repayment-Method	EMI-amount	Date-of-Apply	Status	Action
LA003	Mr. David Silva	Education Loan	200000.00	3 Yrs	Reducing installments	6175.42	2021-06-20 20:06:11	Waiting For Approval	View All
LA001	Miss. Mathu Joshap	Vehicle Loan	300000.00	4 Yrs	Reducing installments	7253.67	2021-06-18 11:06:14	Rejected	View All
LA002	Mr. Ravi Sekar	Home Loan	600000.00	12 Yrs	Reducing installments	7521.33	2021-05-29 12:05:21	Approved	View All

Figure 4.10 View All Loan Applicants

Loan Applicant Details - David Silva

Employee Details		Loan Details	
EmplID	EM003	Applied Loan	Education Loan
Full Name	Mr. David Silva	Interest Rate	7.00%
Email	david@gmail.com	Purpose	For my higher studies
NIC	967845012v	Loan Amount	Rs. 200000.00
Mobile No	0754512520	Duration	3 Yrs
Employee Roll	Assist-Manager	Repayment	Reducing installments
Department	HR	EMI	Rs. 6175.42
Appointment Date	2021-06-25	Documents	787-David.zip
Basic Salary	Rs. 40000.00	Date Of Apply	2021-06-20 20:06:11

Status of this Loan Application: Waiting For Approval

Reason of Update Status: Reason of Update Status

The information given above is true and accurate.

Approved | Rejected

Figure 4.11 View & Response Loan Applicant

Loan Borrowers Details

Photo	Loan-Borrower-ID	Loan-Applicant-ID	Full-Name	Total Repayment Amount	No of Month Available	Available Repayment Amount	Status	Action
	LB001	LA002	Mr. Ravi Sekar	1083071.50	144	1083071.50	Process	<button>Delete</button>

Figure 4.12 View Loan Borrowers Account Details

The screenshot shows a web-based administration interface for managing employee leave applications. On the left, a dark sidebar menu titled "Menu" lists various administrative functions: Home, Dashboard, Manage Employee, Loan Services, Manage Salary, Manage Project, and Account. Below this, the word "ADMIN" is displayed. The main content area is titled "Leave Applicants" and contains a table listing three applications:

#	Employee Name	Leave Type	Posting Date	Status	Caption
1	Mr. Ravi Sekar	Medical leave	2021-06-19 14:58:02	Approved	<button>View</button>
2	Miss. Mathu Joshap	Casual leave	2021-06-19 15:04:32	Not Approved	<button>View</button>
3	Mr. David Silva	Medical leave	2021-06-20 20:37:32	waiting for approval	<button>View</button>

Figure 4.13 View All Leave Applicants

The screenshot shows a detailed view of a specific leave application. The left sidebar is identical to Figure 4.13. The main content area is titled "LEAVE DETAILS" and displays the following information for a leave application:

- EmpName : Mr. David Silva
- leaves Id : LEV0003
- Leave from: 2021-06-21 00:00:00
- Leave to: 2021-06-23 00:00:00
- Leave Type: Medical leave
- Leave Description: Got fever
- Posting Date: 2021-06-20 20:37:32
- leave Status: waiting for approval
- Admin Remark: 0
- Admin Action taken date: NA

Below this, there is a section titled "Take Action" with a dropdown menu labeled "Leave take action Choose your option" and a text input field for "Description". A blue "Submit" button is located at the bottom right.

Figure 4.14 Response Leave Application

The screenshot shows a web browser window titled "localhost / MySQL / emp-management-sys/admin.php?pg=feedbackshow.php". The page is titled "FEEDBACK FROM EMPLOYEES" and displays a table of feedback entries. The table has columns: Employee name, Date, Ratings given, and Comments. There are two entries:

Employee name	Date	Ratings given	Comments
Mr. Ravi Sekar	2021-06-19 12:06:29	3	Good platform
Mr. David Silva	2021-06-20 22:06:12	5	I love this platform. It is user friendly.

The left sidebar is titled "Menu" and includes links for Home, Dashboard, Manage Employee, Loan Services, Manage Salary, Manage Project, and Account. The bottom of the sidebar says "ADMIN". The background of the main content area features a photograph of a pen and a notebook.

Figure 4.15 View Employees Feedback

The screenshot shows a web browser window titled "localhost / MySQL / emp-management-sys/admin.php?pg=a_addproject.php". The page is titled "Add Project" and contains a form with the following fields:

- Project Name (input field)
- Project Type (dropdown menu with placeholder "Choose...")
- Team Members (dropdown menu with placeholder "Ravi Sekar")
- Description (text area)
- Deadline (input field with placeholder "mm/dd/yyyy")
- Buttons: SUBMIT and RESET

The left sidebar is titled "Menu" and includes links for Home, Dashboard, Manage Employee, Loan Services, Manage Salary, Manage Project, Assign Project, View Project, Project Report, and Account. The bottom of the sidebar says "ADMIN". The background of the main content area features a photograph of a hand interacting with a laptop keyboard and a potted plant.

Figure 4.16 Assign Project

NUMBER	PROJECT ID	PROJECT NAME	PROJECT TYPE	TEAM MEMBERS	DESCRIPTION COMMENTS	DEADLINE	ASSIGN DATE
1	P003	Data entry for Lakmal private company	Data entry	Ravi Sekar	15 days project	2021-07-04	2021-06-19
2	P002	Web site develop for Tilko restaurant	Web development with HTML/CSS	Ravi Sekar,Mathu Joshap	1 month project	2021-07-19	2021-06-19
3	P001	Bus ticket booking for western Travels	UI/Ux Design	Ravi Sekar,Mathu Joshap	7 days projects	2021-06-26	2021-06-19

Figure 4.17 View Project Details

Figure 4.18 Add Reward

VIEW REWARDS DETAILS

NUMBER	RWARD ID	RWARD TITLE	EMPLOYEE NAME	YEAR	RWARD TYPE	CURRENT DATE
1	R001	best seller male	Mathu Joshap	2021	Platinum	2021-06-19

Figure 4.19 View Reward Page

Employees

HOME

Calculate Salary Loan-Apply My-Loan-Details Leave-Apply My-Leave-History Project Rewards Feedback **LOGOUT**

Hello, ravi

You need to verify your email address! Sign into your email account and click on the verification link we just emailed you at ravi@gmail.com

**WELCOME TO OUR
EMPLOYEE MANAGEMENT SYSTEM**

HEXAD TECH SOLUTIONS

Figure 4.20 HR Home page

The screenshot shows a web browser window with the URL localhost/emp-management-sys/viewloan.php. The page title is "View Loan Details". The main content is a table titled "Loan Details" with the following data:

Loan-ID	Loan-Type	Loan-Purpose	Maximum Loan Amount	Interest-Rate	Manage
L001	Home Loan	Housing, purchase of land, construction	1000000	11.00%	<button>Apply</button>
L002	Vehicle Loan	Vehicle	500000	7.50%	<button>Apply</button>
L003	Education Loan	For higher education	300000	7.00%	<button>Apply</button>

The browser's address bar shows "localhost / MySQL / emp-manage" and "View Loan Details". The top navigation bar includes links for Home, Calculate Salary, Loan-Apply, My-Loan-Details, Leave-Apply, My-Leave-History, Project, Rewards, Feedback, and LOGOUT. The bottom taskbar shows various application icons and the system clock at 12:24 AM on 6/21/2021.

Figure 4.21 View Loan Details

The screenshot shows a web browser window with the URL localhost/emp-management-sys/loanapply.php?id=L001&eid=EM001. The page title is "Apply Loan Service". The main content is a form titled "Apply Loan" with the following fields:

EmpID EM001	LoanID L001	Interest Rate 11.00
Your purpose for the loan *		
Loan Amount *		
Duration (in years)*		
Repayment Option * Choose...		
EMI Amount		

Below the form, there is a note: "You must submit all the required documents as a 1 rar file". A file input field shows "Documents* Choose File No file chosen" and an "Upload" button. At the bottom, there is a checkbox and a note: "The information given above is true and accurate to the best of my / our knowledge".

The browser's address bar shows "localhost / MySQL / emp-manage" and "Apply Loan Service". The top navigation bar includes links for Home, Calculate Salary, Loan-Apply, My-Loan-Details, Leave-Apply, My-Leave-History, Project, Rewards, Feedback, and LOGOUT. The bottom taskbar shows various application icons and the system clock at 12:24 AM on 6/21/2021.

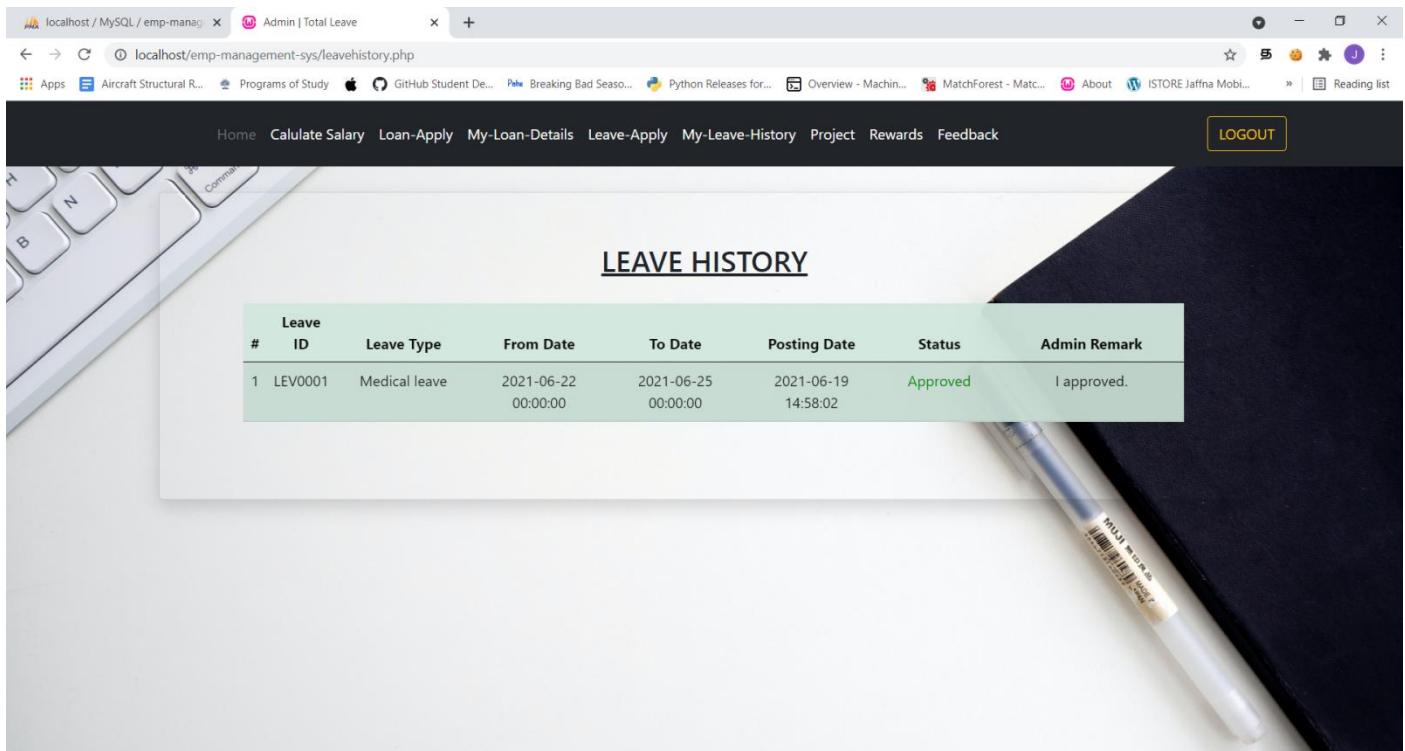
Figure 4.21 Loan Application for all employees

Loan-Applicant-ID	Loan-Type	Interest-Rate	My-Loan-Purpose	Loan-Amount	Duration	Repayment-Method	EMI-Amount	Date-of-Apply	Status	Remark-Info	Action
LA002	Home Loan	11.00%	buy new house	600000.00	12yrs	Reducing installments	7521.33	2021-05-29 12:05:21	Approved	Your documents are perfect.	<button>VIEW</button>

Figure 4.22 View Own Loan History and Account Details

EmpID EM001	Full Name Mr. Ravi Sekar
From Date mm/dd/yyyy	To Date mm/dd/yyyy
Leave Type Choose...	
Description	
<input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>	

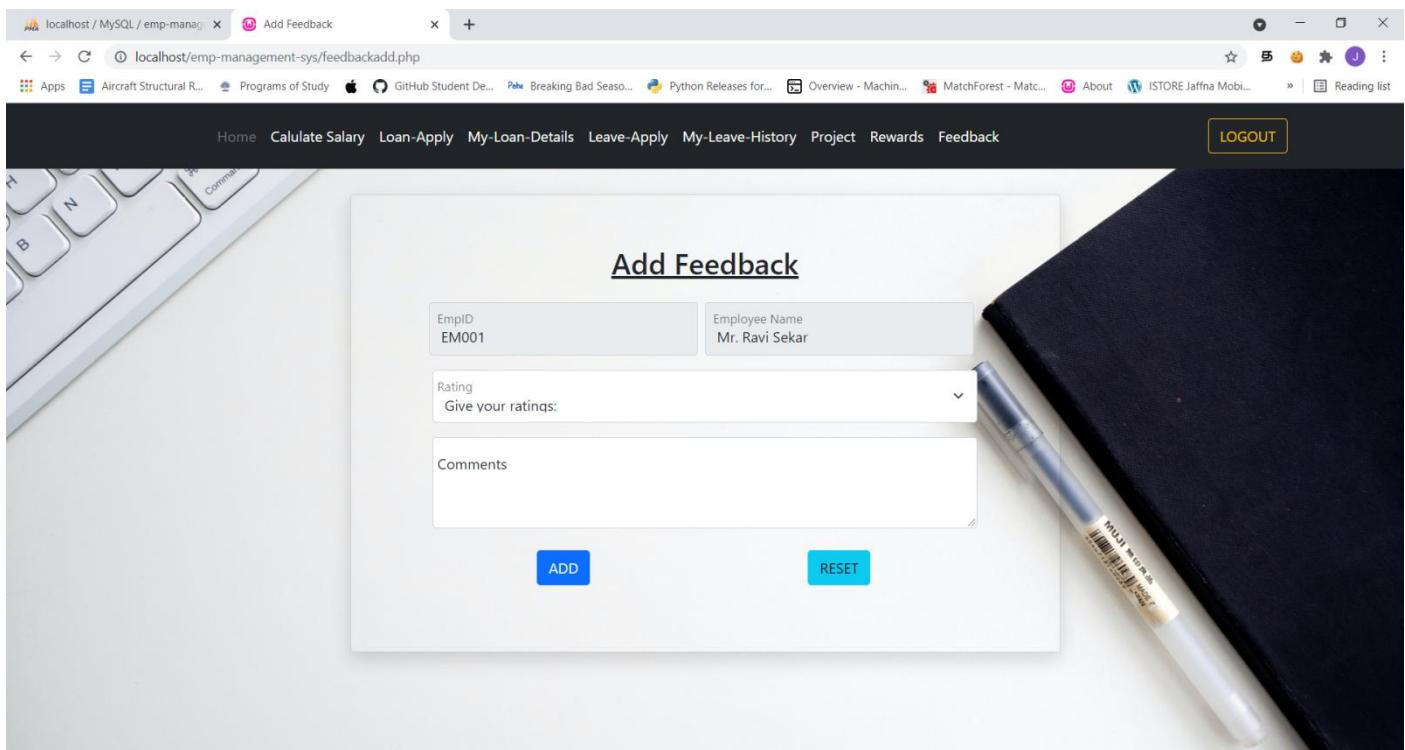
Figure 4.23 Leave Application



The screenshot shows a web browser window with the URL <localhost/emp-management-sys/leavehistory.php>. The page title is "Admin | Total Leave". The main content is titled "LEAVE HISTORY" and displays a table with one row of data. The table columns are: Leave #, ID, Leave Type, From Date, To Date, Posting Date, Status, and Admin Remark. The data in the table is:

Leave #	ID	Leave Type	From Date	To Date	Posting Date	Status	Admin Remark
1	LEV0001	Medical leave	2021-06-22 00:00:00	2021-06-25 00:00:00	2021-06-19 14:58:02	Approved	I approved.

Figure 4.24 View Own Leave History



The screenshot shows a web browser window with the URL <localhost/emp-management-sys/feedbackadd.php>. The page title is "Add Feedback". The main content is titled "Add Feedback" and contains two input fields: "EmplID" (with value "EM001") and "Employee Name" (with value "Mr. Ravi Sekar"). Below these fields is a "Rating" section with a dropdown menu containing the placeholder "Give your ratings:". At the bottom of the form are two buttons: "ADD" and "RESET".

Figure 4.25 Add Feedback

NO	Designation	Closing date	ACTION
1	UI Designer	2021-06-21	Not allowed to applied(Due to closing date)
2	IT HARDWARE,TECHNICAL SUPPORT	2021-06-25	View more details
3	Senior Developer	2021-10-30	View more details
4	IT support Executive	2021-11-29	View more details

"Come join us to experience purpose and value within an inclusive workplace"

Figure 4:26 Open position Details

Open position Info:

Designation:
IT HARDWARE,TECHNICAL SUPPORT

Experience:
Fresher

Qualification:
Any Graduate in Any Spec

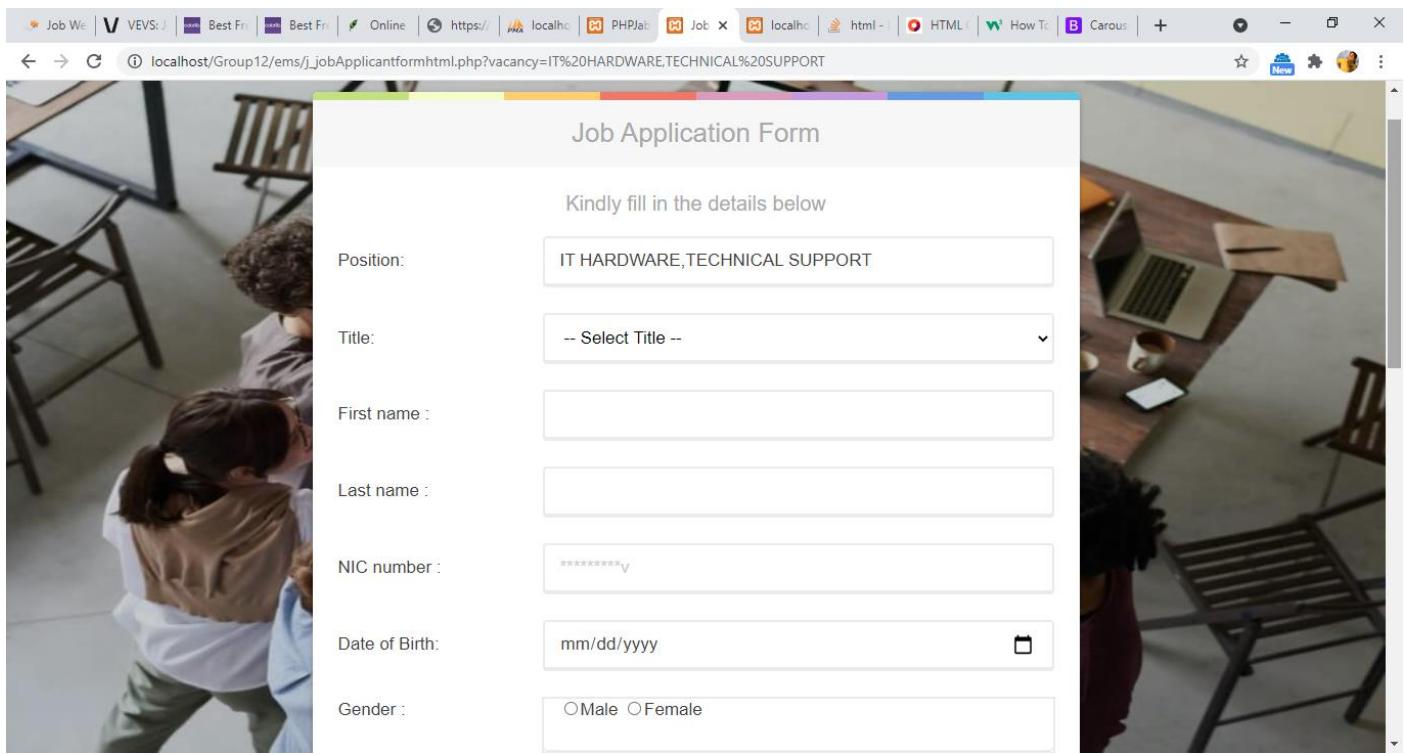
Jobtype:
FullTime

Closingdate:
06/25/2021

More information(Contact Number):
775241369

Apply

Figure 4:27 full details of open position



A screenshot of a job application form titled "Job Application Form". The form is set against a background image of two people working at a desk. The title "Job Application Form" is centered at the top. Below it, a message says "Kindly fill in the details below". The form fields include:

- Position: IT HARDWARE, TECHNICAL SUPPORT
- Title: -- Select Title --
- First name :
- Last name :
- NIC number : *****V
- Date of Birth: mm/dd/yyyy
- Gender : Male Female

Figure 4:28 Job application

5 Future Work

UWU/CST/18/004	S.Mathushan.	<ul style="list-style-type: none">• Project documentation submission form.• View documentation.• Service page.
UWU/CST/18/010	S.Ketheeswaran.	<ul style="list-style-type: none">• About us page.• Index page.• Search function.
UWU/CST/18/013	J.Thayakunan.	<ul style="list-style-type: none">• Salary calculation.• Dashboard.• Profile.
UWU/CST/18/024	B.Sivarajah.	<ul style="list-style-type: none">• Payment registration.• View payment details.• Contact us page.

6 Individual Contribution

Registration Number	Name	Contribution
UWU/CST/18/004	S.Mathushan.	<ul style="list-style-type: none"> • Project maintenance module. <ul style="list-style-type: none"> ▪ Assign project function. ▪ Add, view and update the details. • Rewards addition. <ul style="list-style-type: none"> ▪ Add rewards function. ▪ View and update the details.
UWU/CST/18/010	S.Ketheeswaran.	<ul style="list-style-type: none"> • Advertisements and announcements. <ul style="list-style-type: none"> ▪ Add announcements ▪ Add job vacancies ▪ View and update the details. • Job applications and maintenance. <ul style="list-style-type: none"> ▪ Job application form. ▪ View the job applicant details. • Career page development.
UWU/CST/18/013	J.Thayakunan.	<ul style="list-style-type: none"> • Login and Forget password with Email verification. • Home pages for admin and all employees • Employee maintenance module for admin <ul style="list-style-type: none"> ▪ Add employee & manage details(view, update, delete) • Loan service maintenance module <ul style="list-style-type: none"> ▪ Add loan & manage (view, update, delete) ▪ Loan Application for all employees ▪ View loan applicants & response ▪ View loan borrowers account details

UWU/CST/18/024	B.Sivarajah.	<ul style="list-style-type: none">• Leave apply maintenance module<ul style="list-style-type: none">▪ Employee apply for leave▪ View and response leave application▪ View own leave history• Feedback addition<ul style="list-style-type: none">▪ Add feedback details function.▪ View the feedback details.
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7 References.

- <https://www.pockethrms.com/employee-management-system/#:~:text=An%20employee%20management%20system%20is,an%20easier%20and%20quicker%20way.&text=Now%20manage%20your%20hiring%20expenses%20with%20automated%20recruitment%20management%20system>
- <https://corporatefinanceinstitute.com/resources/knowledge/credit/equated-monthly-installment-emi/>
- <https://www.businessstoday.in/moneytoday/banking/how-to-calculate-emi-on-your-loans-formula-explanation/story/198944.html>
- <https://stackoverflow.com/>
- <https://www.w3schools.com>