



UNIVERSITY OF MADRAS  
INSTITUTE OF DISTANCE EDUCATION

சென்னைப் பல்கலைக்கழகம்  
தொலைதூரக் கல்வி நிறுவனம்

### **Project Title**

## **Employee Record Management System Report**

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**Department:** 2<sup>nd</sup> Year 3<sup>rd</sup> SEM (Mini-Project)

**Batch:** C22

**Under the guidance of:** Dr.Balaji

**Institute of Distance Education,  
University of Madras**

## **INTRODUCTION & OBJECTIVE**

- Employee Record Management system is a database which keeps the record of all the details pertaining to employees in an organization.
- Organizations have always had to collect and use personal information from and about employees to comply with tax and other laws, to administer benefits, to operate their businesses.
- The objective of the project is to improve and enhance the “Employee Record Management system” module available in IDRBT’s intranet for deployment on virtualized server.
- The same could not be migrated to the virtualized environment owing to incompatibility of the existing code with the virtualized environment.

# SOFTWARE AND HARDWARE SPECIFICATIONS

## HARDWARE REQUIREMENTS:

Processor	:	Intel P-IV based system
Processor Speed	:	2.0. GHz
RAM	:	1GB
Hard Disk	:	40GB to 80GB

## SOFTWARE REQUIREMENTS:

Database	:	MySQL
Server	:	Apache
Frontend	:	HTML
Scripting language	:	Java Script
IDE	:	Sublime
Technology	:	PHP

## **Project Scope**

The scope of the project is to store and access the database consisting of employee's personal details and the database can be shared with the concerned department to complete joining formalities

We can also store and access the database consisting of program details.

## **Project Deliverables**

We can store the employee's personal details and experience for internal accessibility.

## **Project Overview**

Employee Record Management System project used to manage the data of the employees such as personal details, education details, work exp etc. This project will reduce the paper work of the company. Through this project company can manage all data online.

**Employee Record Management System project divided in two modules:**

- User Module
- Admin Module

### **User Module**

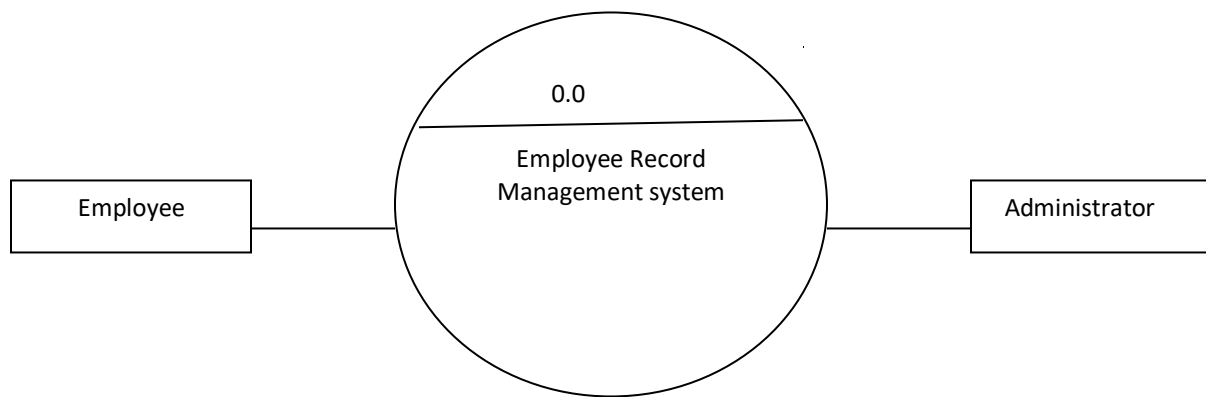
- User can register himself.
- User login
- User password recovery.
- User can add / edit own work experience details
- User can add / edit own education details.
- User can edit own profile.
- User can update own password.
- Logout

### **Admin Module**

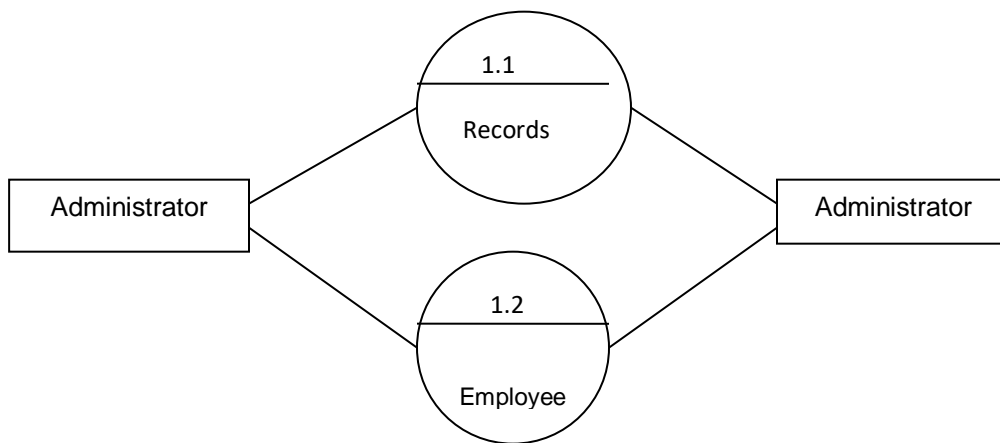
- Admin Login
- Admin can manage all employee records.
- Admin can update / edit user personal details/ work exp. details / Education.
- Admin can update own profile
- Change password
- Logout

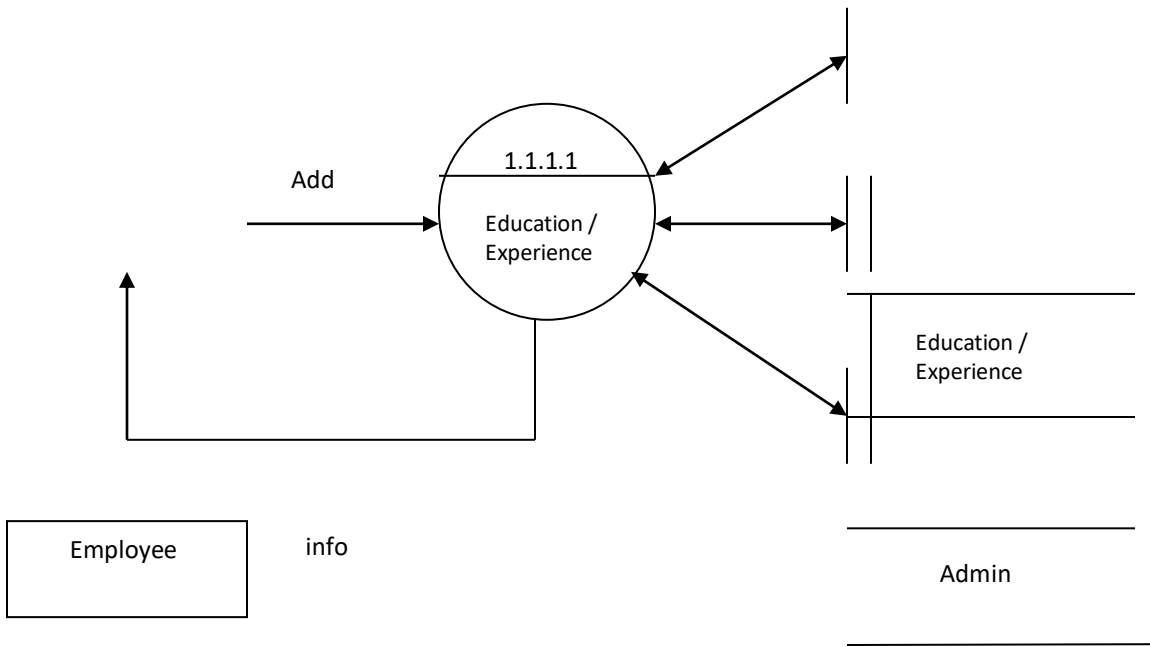
# Design Document

## FIRST LEVEL DATAFLOW DIAGRAM



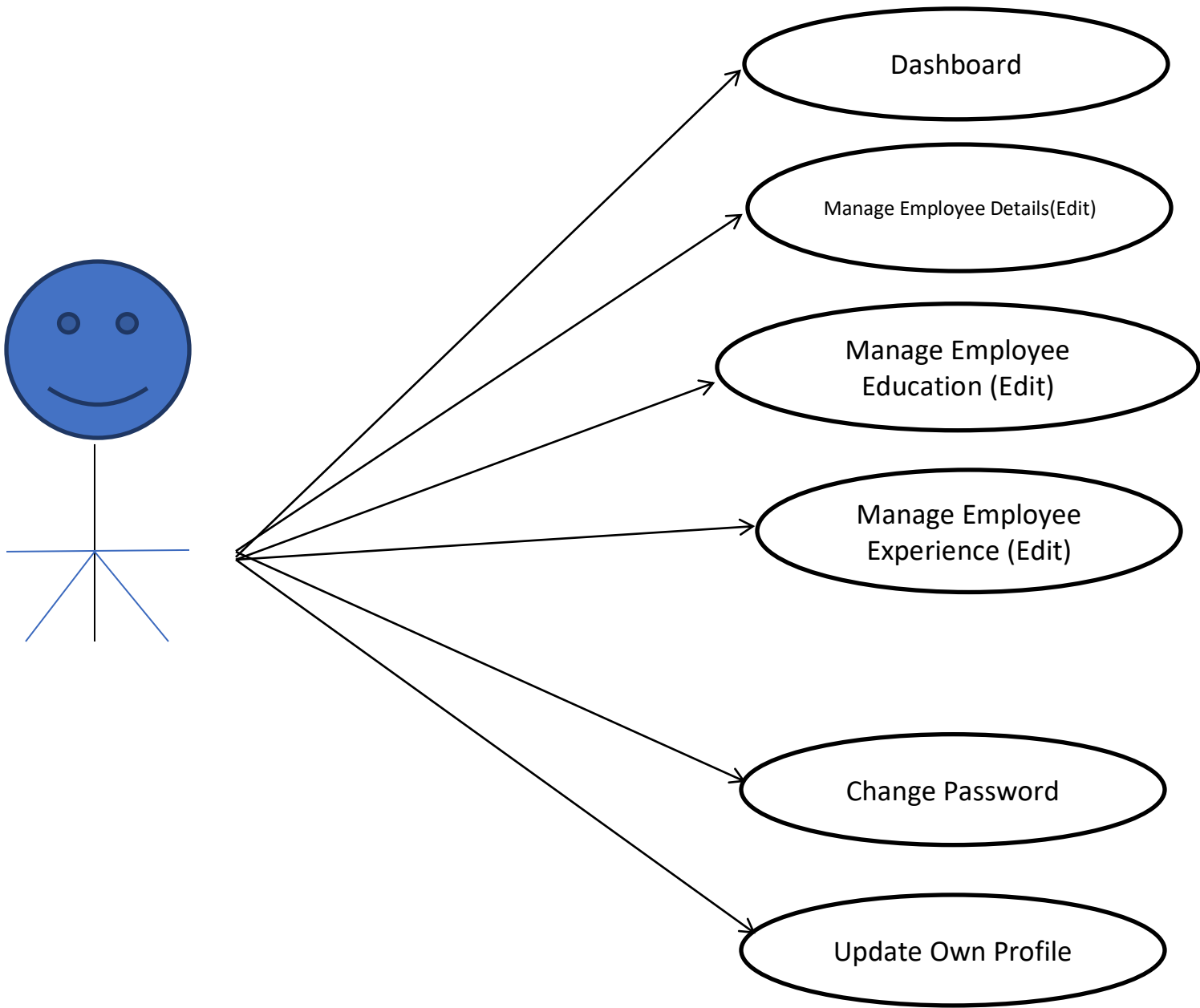
## SECOND LEVEL DATAFLOW DIAGRAM



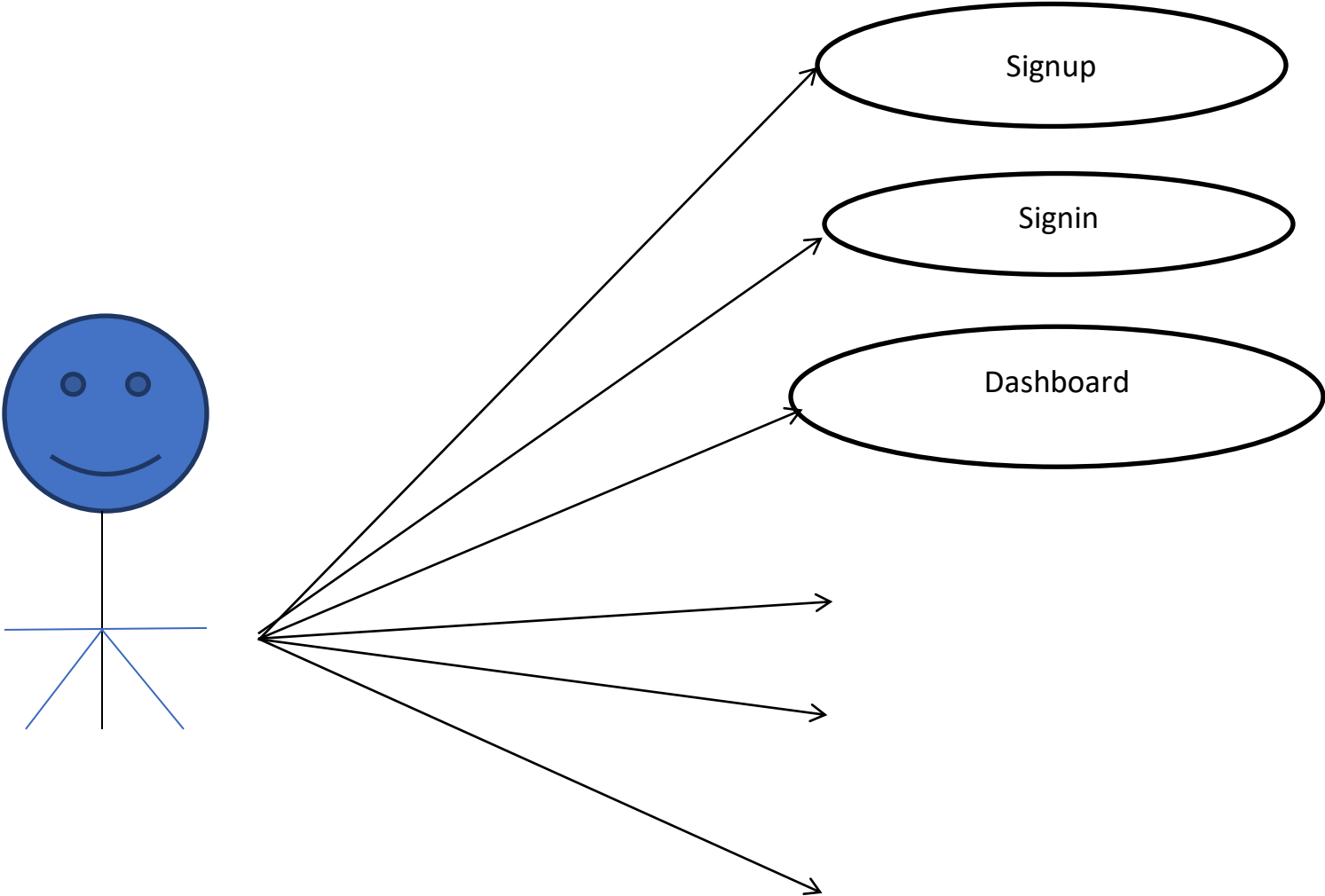


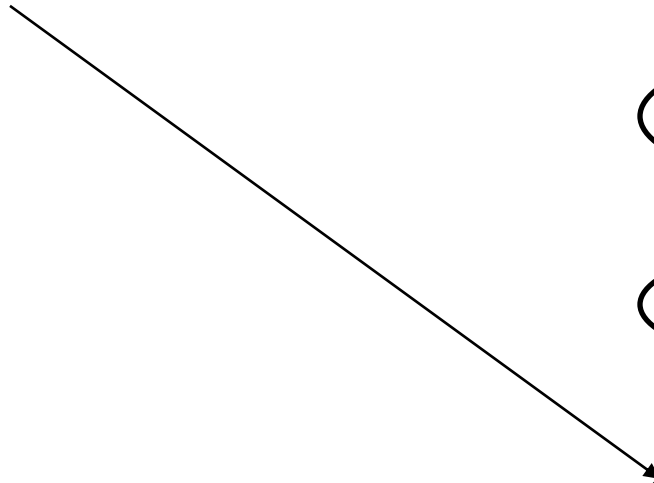


## Use Case Diagrams admin



Use Case Diagrams Employee





Manage Education  
(Add/ Edit)

Manage experience  
(Add/ Edit)

Update Own Profile

Change Password

## ENTITY-RELATIONSHIP Diagrams

E-R (Entity-Relationship) Diagram is used to represents the relationship between entities in the table.

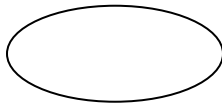
**The symbols used in E-R diagrams are:**

### SYMBOL

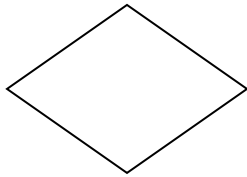


### PURPOSE

Represents Entity sets.



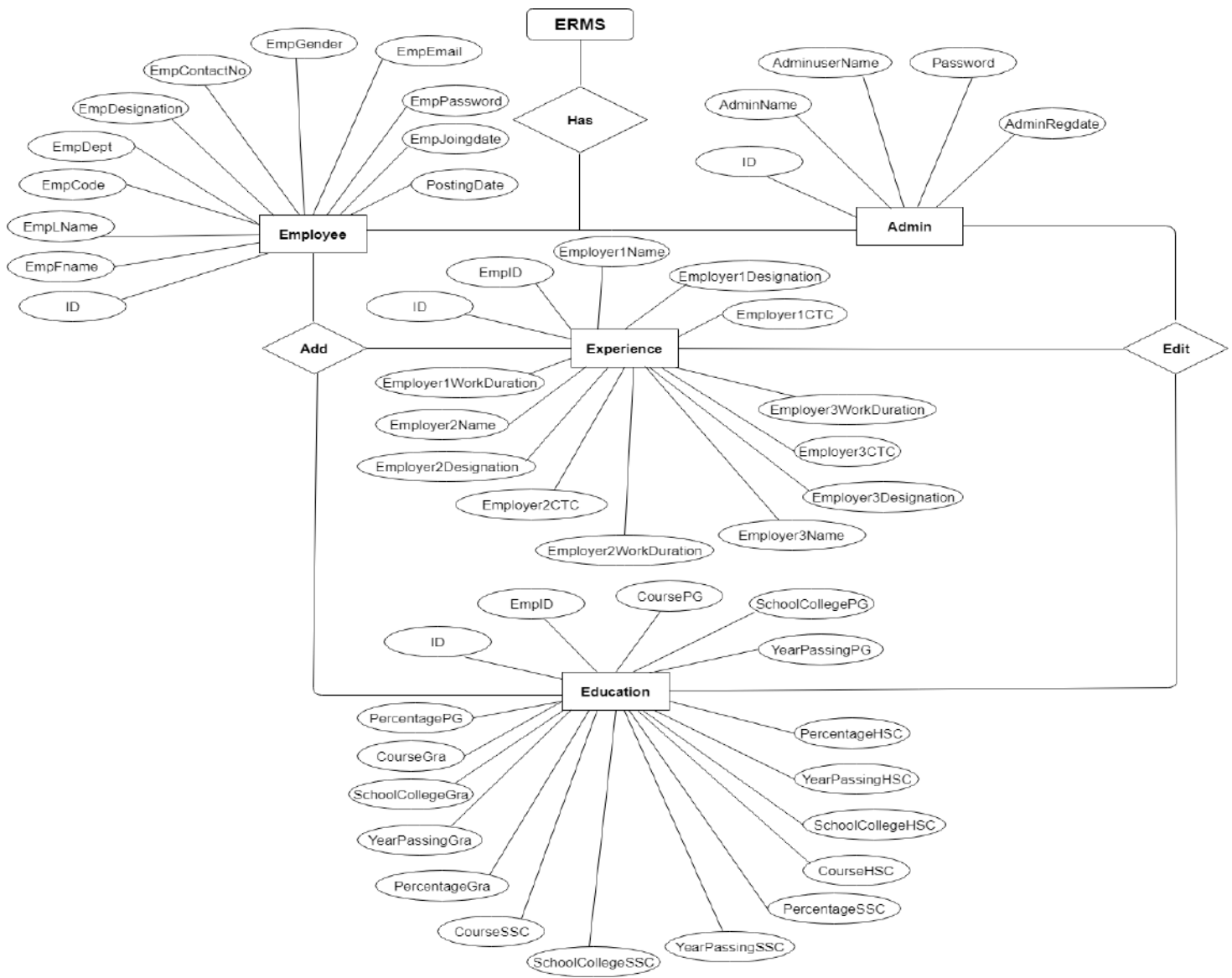
Represent attributes.



Represent Relationship Sets.




Line represents flow



# **DATABASE DESIGN**

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#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(11)			No	None		AUTO_INCREMENT
2	AdminName	varchar(50)	latin1_swedish_ci		Yes	NULL		
3	AdminuserName	varchar(50)	latin1_swedish_ci		Yes	NULL		
4	Password	varchar(45)	latin1_swedish_ci		Yes	NULL		
5	AdminRegdate	timestamp			Yes	CURRENT_TIMESTAMP		

**Employee detail table Structure:** This table store the personal details of the employee.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 🔑	int(11)			No	None		AUTO_INCREMENT
2	EmpFname	varchar(50)	latin1_swedish_ci		Yes	NULL		
3	EmpLName	varchar(50)	latin1_swedish_ci		No	None		
4	EmpCode 🔑	varchar(50)	latin1_swedish_ci		Yes	NULL		
5	EmpDept	varchar(120)	latin1_swedish_ci		Yes	NULL		
6	EmpDesignation	varchar(120)	latin1_swedish_ci		Yes	NULL		
7	EmpContactNo	bigint(10)			Yes	NULL		
8	EmpGender	enum('Male', 'Female')	latin1_swedish_ci		Yes	NULL		
9	EmpEmail	varchar(200)	latin1_swedish_ci		Yes	NULL		
10	EmpPassword	varchar(100)	latin1_swedish_ci		Yes	NULL		
11	EmpJoiningdate	date			Yes	NULL		
12	PostingDate	timestamp			No	CURRENT_TIMESTAMP		

**Employee education table Structure:** This table store the education details of the employee.



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	Id 	int(11)			No	None		AUTO_INCREMENT
2	EmplID	int(10)			Yes	NULL		
3	CoursePG	varchar(45)	latin1_swedish_ci		Yes	NULL		
4	SchoolCollegePG	varchar(45)	latin1_swedish_ci		Yes	NULL		
5	YearPassingPG	varchar(45)	latin1_swedish_ci		Yes	NULL		
6	PercentagePG	varchar(4)	latin1_swedish_ci		Yes	NULL		
7	CourseGra	varchar(45)	latin1_swedish_ci		Yes	NULL		
8	SchoolCollegeGra	varchar(45)	latin1_swedish_ci		Yes	NULL		
9	YearPassingGra	varchar(45)	latin1_swedish_ci		Yes	NULL		
10	PercentageGra	varchar(4)	latin1_swedish_ci		Yes	NULL		
11	CourseSSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
12	SchoolCollegeSSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
13	YearPassingSSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
14	PercentageSSC	varchar(4)	latin1_swedish_ci		Yes	NULL		
15	CourseHSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
16	SchoolCollegeHSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
17	YearPassingHSC	varchar(45)	latin1_swedish_ci		Yes	NULL		
18	PercentageHSC	varchar(4)	latin1_swedish_ci		Yes	NULL		

**Employee experience table Structure:** This table store the experience details of the employee.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 🔑	int(11)			No	None		AUTO_INCREMENT
2	EmplID	varchar(5)	latin1_swedish_ci		Yes	NULL		
3	Employer1Name	varchar(75)	latin1_swedish_ci		Yes	NULL		
4	Employer1Designation	varchar(50)	latin1_swedish_ci		Yes	NULL		
5	Employer1CTC	varchar(50)	latin1_swedish_ci		Yes	NULL		
6	Employer1WorkDuration	varchar(11)	latin1_swedish_ci		Yes	NULL		
7	Employer2Name	varchar(75)	latin1_swedish_ci		Yes	NULL		
8	Employer2Designation	varchar(50)	latin1_swedish_ci		Yes	NULL		
9	Employer2CTC	varchar(50)	latin1_swedish_ci		Yes	NULL		
10	Employer2WorkDuration	varchar(11)	latin1_swedish_ci		Yes	NULL		
11	Employer3Name	varchar(75)	latin1_swedish_ci		Yes	NULL		
12	Employer3Designation	varchar(50)	latin1_swedish_ci		Yes	NULL		
13	Employer3CTC	varchar(50)	latin1_swedish_ci		Yes	NULL		
14	Employer3WorkDuration	varchar(11)	latin1_swedish_ci		Yes	NULL		

## Data schema Diagram:

The class diagram shows a set of classes, interfaces, collaborations and their relationships.

ermsdb: empeducation	
ID : int(11)	
EmplID : int(10)	
CoursePG : varchar(45)	
School/CollegePG : varchar(45)	
YearPassingPG : varchar(45)	
PercentagePG : varchar(4)	
CourseGra : varchar(45)	
School/CollegeGra : varchar(45)	
YearPassingGra : varchar(45)	
PercentageGra : varchar(4)	
CourseSSC : varchar(45)	
School/CollegeSSC : varchar(45)	
YearPassingSSC : varchar(45)	
PercentageSSC : varchar(4)	
CourseHSC : varchar(45)	
School/CollegeHSC : varchar(45)	
YearPassingHSC : varchar(45)	
PercentageHSC : varchar(4)	

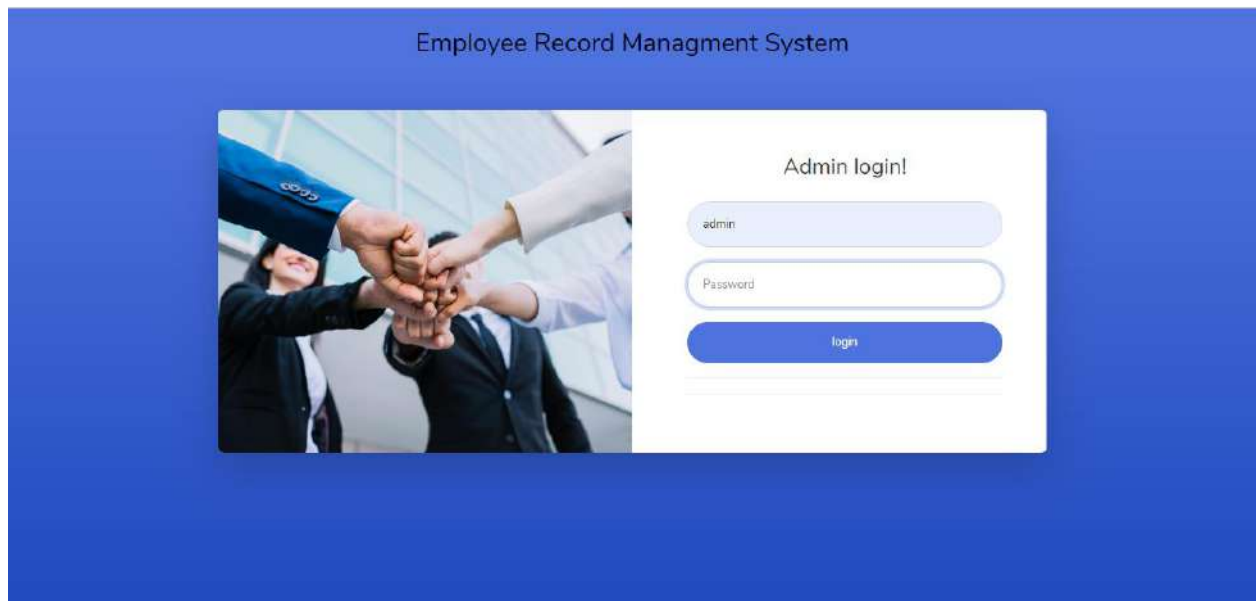
ermsdb: employeeedetail	
ID : int(11)	
EmpFname : varchar(50)	
EmpLName : varchar(50)	
EmpCode : varchar(50)	
EmpDept : varchar(120)	
EmpDesignation : varchar(120)	
EmpContactNo : bigint(10)	
EmpGender : enum('Male','Female')	
EmpEmail : varchar(200)	
EmpPassword : varchar(100)	
EmpJoiningdate : date	
PostingDate : timestamp	

ermsdb: empexpireince	
ID : int(11)	
EmplID : varchar(5)	
Employer1Name : varchar(75)	
Employer1Designation : varchar(50)	
Employer1CTC : varchar(50)	
Employer1WorkDuration : varchar(11)	
Employer2Name : varchar(75)	
Employer2Designation : varchar(50)	
Employer2CTC : varchar(50)	
Employer2WorkDuration : varchar(11)	
Employer3Name : varchar(75)	
Employer3Designation : varchar(50)	
Employer3CTC : varchar(50)	
Employer3WorkDuration : varchar(11)	

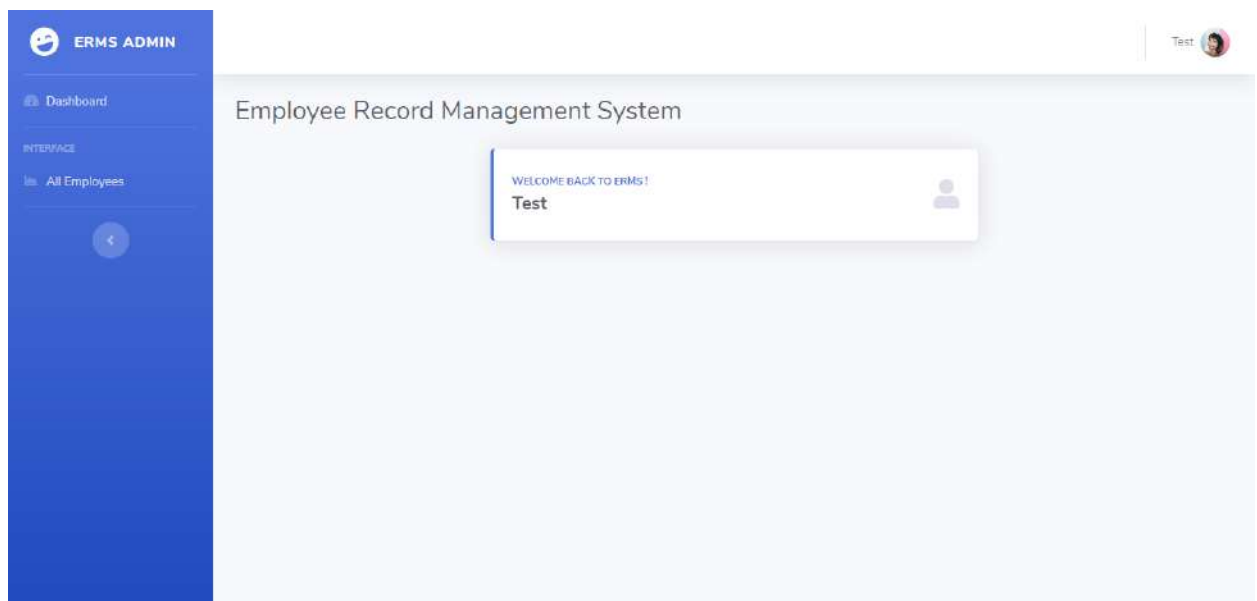
ermsdb: tbladmin	
ID : int(11)	
AdminName : varchar(50)	
AdminuserName : varchar(50)	
Password : varchar(45)	
AdminRegdate : timestamp	

## Output Screen of Project

### Admin Login



### Admin Dashboard



## Employee Details

ERMS ADMIN

Dashboard

INTERFACE

All Employees

Test

Employees Details

S no.	Emp Code	Emp First Name	Emp Last Name	Emp Email	Emp Contact no	Emp Joining Date	Action
1	123465	Subhash	Pandey	abc@gmail.com	825099421	2019-01-02	Edit Profile Details   Edit Education Details   Edit Experience Details
2	123465558	Anuj	Kumar	anuj@gmail.com	825099421	2017-03-23	Edit Profile Details   Edit Education Details   Edit Experience Details
3	123467	Ankush	Pandey	ankush@gmail.com	825099421	2010-09-13	Edit Profile Details   Edit Education Details   Edit Experience Details
4	12346012	Sarita	Pandey	abhi@gmail.com	825099421		Edit Profile Details   Edit Education Details   Edit Experience Details
5	369874	Manu	Ramesh	manu@gmail.com			Edit Profile Details   Edit Education Details   Edit Experience Details
6	63	Ragunath	Shahye	shahye@gmail.com			Edit Profile Details   Edit Education Details   Edit Experience Details
7		1345556					Edit Profile Details   Edit Education Details   Edit Experience Details
8	89745	Garuv	Bhatia	jki@gmail.com			Edit Profile Details   Edit Education Details   Edit Experience Details
9	1234	Khusi	Dev	hjk@gmail.com			Edit Profile Details   Edit Education Details   Edit Experience Details
10	789	SARITA	pANDEY	PANDEY@GMAIL.COM			Edit Profile Details   Edit Education Details   Edit Experience Details
11	56989	Dinesh	Karthik	dinesh@gmail.com			Edit Profile Details   Edit Education Details   Edit Experience Details
12	2131231	Test	User	testuser@gmail.com	1234567890	2018-10-09	Edit Profile Details   Edit Education Details   Edit Experience Details

## Edit Employee Profile

ERMS ADMIN

Dashboard

INTERFACE

All Employees

Test

Edit Employee Profile

First Name

Test

Last Name

User

Employee Code

2131231

Employee Dept

IT

Employee Designation

Software Developer

Employee Contact No.

1234567890

Email

testuser@gmail.com

Employee Joining Date(yyyy-mm-dd)

2018-10-09

Gender

☒Male ☐Female

Update

# Edit Employee Education

ERMS ADMIN

Dashboard

INTERFACE

All Employees

Test

Edit Employee Education

Course Post Graduation

MCA

School/College Post Graduation

KITE Ghaziabad

Year of Passing Post Graduation

1990

Percentage in PG

64 %

Course Graduation

BCA

School/College Graduation

TVN

Year of Passing Graduation

1997

Percentage in Graduation

68 %

Course SSC

Science

School/College SSC

TVN

Year of Passing SSC

1992

Percentage in SSC

76 %

Course HSC

Science

School/College HSC

TVN

Year of Passing HSC

2010

Percentage in HSC

89 %

update

## Edit Experience

ERMS ADMIN

Dashboard

INTERFACE

All Employees

<

Test

### Edit Employee Experience

Employer1 Name	abc.pvt.td
Employer1 Designation	software tester
Employer1 CTC	20,000 p/m
Employer1 WorkDuration	4 yrs
Employer2 Name	tch.pvt.td
Employer2 Designation	software tester
Employer2 CTC	32000 p/m
Employer2 WorkDuration	4 yrs
Employer3 Name	dfg.pvt.td
Employer3 Designation	SR software tester
Employer3 CTC	45000 p/m
Employer3 WorkDuration	7 yrs

Update

## Profile

ERMS ADMIN

Dashboard

INTERFACE

All Employees

<

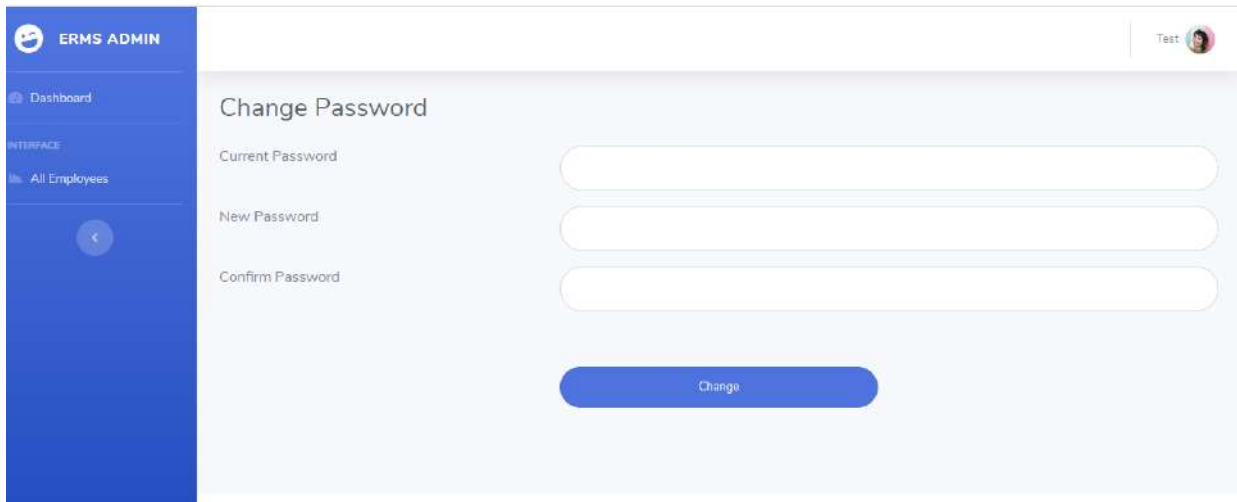
Test

### Admin Profile

Admin Name	Test
User Name	Admin
Admin Registration Date(yyyy-mm-dd)	2019-02-07 22:22:45

Update

## Change Password



The screenshot shows the 'Change Password' page in the ERMS ADMIN system. On the left is a blue sidebar with the 'ERMS ADMIN' header and navigation links for 'Dashboard' and 'All Employees'. The main content area has a light blue background and contains three input fields for 'Current Password', 'New Password', and 'Confirm Password'. A blue 'Change' button is positioned below the fields. In the top right corner, a user profile icon is labeled 'Test'.

## User Registration



The screenshot displays the 'Create an Account' registration form within the 'Employee Record Management System'. The page features a blue header with the system name and a background image of business professionals. The form includes input fields for 'First Name', 'Last Name', 'Enter your Employee Code', 'Email Address', 'Password', and 'Repeat Password'. A prominent blue 'Register Account' button is at the bottom of the form. Below the button, a link reads 'Already have an account? Login!'. The sidebar on the left is partially visible.

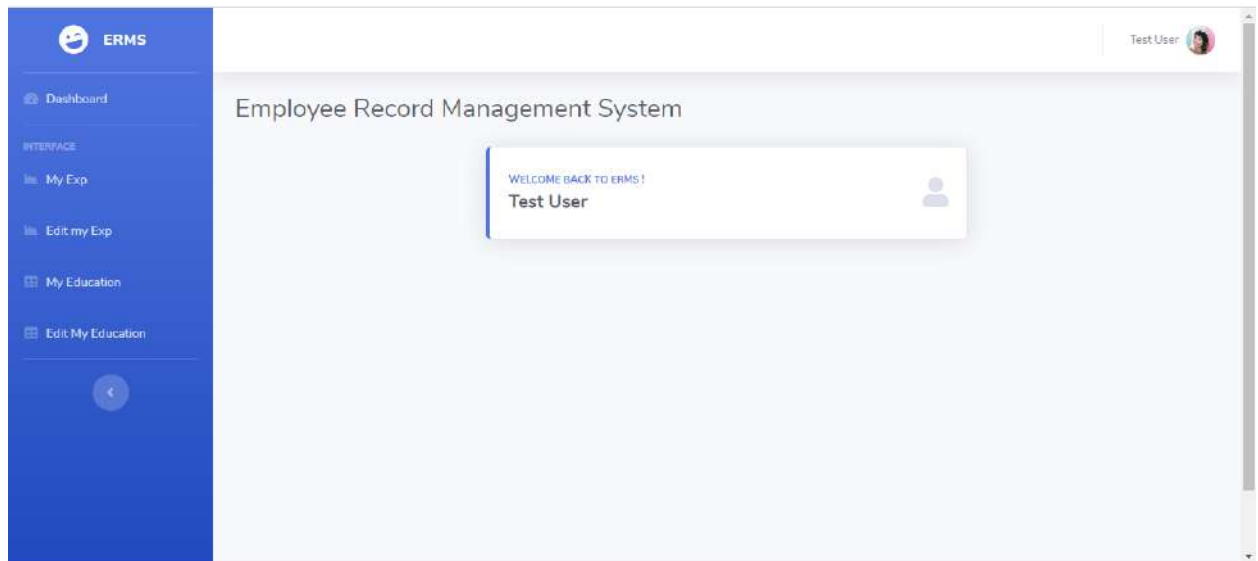
## User Login



The screenshot shows the 'Welcome Back!' login page of the 'Employee Record Management System'. The layout is consistent with the registration page, featuring a blue header and a background image of business professionals. The login form contains input fields for 'Enter Email Address...' and 'Password', followed by a blue 'Login' button. At the bottom of the form, there are links for 'Forgot Password?' and 'Create an Account'. The sidebar on the left is partially visible.



## User Dashboard



## User Profile

The screenshot shows the 'My Profile' page in the ERMS. The left sidebar is identical to the dashboard. The main content area is titled 'My Profile' and contains a form with the following fields:

Field Label	Value
First Name	Test
Last Name	User
Employee Code	2131231
Employee Dept	IT
Employee Designation	Software Developer
Employee Contact No.	1234567890
Email	testuser@gmail.com
Employee Joining Date(yyyy-mm-dd)	2018-10-09
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female

At the bottom of the form is a blue 'Update' button.

## Change Password

ERMS

Dashboard

INTERFACE

My Exp

Edit my Exp

My Education

Edit My Education

<

Test User

Change Password

Current Password

New Password

Confirm Password

Change

## User Experience Form

ERMS

Dashboard

INTERFACE

My Exp

Edit my Exp

My Education

Edit My Education

<

Test User

My Expirence

Your Experience details already added. Now you can only edit the record.

First Employer Name	ABC
First Employer Designation	Developer
First Employer CTC	12000
First Employer Work Duration	2 years
Second Employer Name	NA
Second Employer Designation	NA
Second Employer CTC	NA
Second Employer Work Duration	NA
Third Employer Name	NA
Third Employer Designation	NA
Third Employer CTC	NA
Third Employer Work Duration	NA

## Edit Experience

ERMS

Dashboard

INTERFACE

My Exp

Edit my Exp

My Education

Edit My Education

<

Test User

### Edit My Expirence

Employer1 Name

ABC

Employer1 Designation

Developer

Employer1 CTC

12000

Employer1 WorkDuration

2 years

Employer2 Name

NA

Employer2 Designation

NA

Employer2 CTC

NA

Employer2 WorkDuration

NA

Employer3 Name

NA

Employer3 Designation

NA

Employer3 CTC

NA

Employer3 WorkDuration

NA

Update

## User Education Form

ERMS

Dashboard

INTERFACE

My Exp

Edit my Exp

My Education

Edit My Education

<


Test User

### My Education

Your Education details already added. Now you can only edit the record.

Post Graduate Course Name	MBA
Post Graduate School/College	SMU
Year of Passing in PG	2018
Percent in PG	70
Graduation Course Name	B.Tech
Graduate School/College	LPU
Year of Passing in Graduation	2015
Percent in Graduation	80
SSC Course Name	PCM
SSC School/College	Test
Year of Passing in SSC	2010
Percent in SSC	74
HSC Course Name	PCM
HSC School/College	ABC
Year of Passing in HSC	2008
Percent in HSC	85

# User Edit Education

ERMS

Dashboard

INTERFACE

My Exp


Edit my Exp

My Education

Edit My Education

<

Test User



Edit My Education

Course Post Graduation

MBA

School/College Post Graduation

SMU

Year of Passing Post Graduation

2018

Percentage in PG

70

Course Graduation

BTech

School/College Graduation

LPU

Year of Passing Graduation

2015

Percentage in Graduation

80

Course SSC

PCM

School/College SSC

Test

Year of Passing SSC

2010

Percentage in SSC

74

Course HSC

PCM

School/College HSC

ABC

Year of Passing HSC

2008

Percentage in HSC

85

update

## **Conclusion**

The project titled as **Employee Record Management System** was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time.

Employee record management system is used for daily operations in any organization to maintain or access employee related information for internal administration purposes.

## **THANK YOU**