



Dharmsinh Desai University, Nadiad
Faculty of Technology
Department of Computer Engineering

B.Tech. CE Semester – VI

Subject: System Design Practice

Project Title: Employee Payroll Management
System

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CERTIFICATE

This is to certify that the Project entitled “**Employee Payroll Management System**” carried out in subject of System Design Practice is the bonafide work of

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Abstract

Till now the details of all the employees of the company were recorded manually so the employee record management was becoming difficult to manage. Employee details such as personal details, Monthly Attendance and Salary information used to be added and updated frequently so management of data became difficult day by day.

The purpose of the Employee Payroll Management System is to automate existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling the requirements.

The Employee has to register himself to get a username and password. Then employee can always login using that username and password. Employee can view his attendance and income information in his account. Adding Monthly Attendance of each employee and updating Salary details is done by Admin.

Introduction

Employee Payroll Management system is platform which provides facility to record Every Detail of employee in the system.

The project of creating Web Application on Payroll Management System is created using PHP. For the development of frontend pages, HTML, CSS and Bootstrap is used. To Store User Data and manage the backend, MySQL is used.

Software Requirement Specification

Users:

1. Admin
2. Employee

Functional Requirements:

R1- Manage Login

Description: Verify User login credentials and proceed

Input: Login Credentials.

Output: Home Page

Exception: If user login details are not valid, error message is displayed.

R2 - Manage Employee

R2.1: Display details.

Description: Display employee details like personal information, Attendance, Income.

Input: User Selection.

Output: User Data.

R3 - Manage Admin

R3.1: Add New Employee.

Description: If a new employee is joining, register him.

Input: Employee details.

Output: Confirmation message.

R3.2: Display Employee.

Description: Display employee details like personal information, Attendance, Income.

Input: User Selection.

Output: User Data.

R3.3: Update Employee details

Description: Display employee details like personal information, Attendance, Income and allow to modify it.

Input: User Selection and Data to modify.

Output: Confirmation message with Modified User Data.

R3.4: Delete Employee Record.

Description: Display employee and allow to delete

Input: User Selection.

Output: Confirmation message.

R3.5: Add Monthly Attendance

Description: Add Monthly Attendance of employee.

Input: Employee Monthly Attendance.

Output: Modified Attendance Record.

R3.6: Update Employee Salary

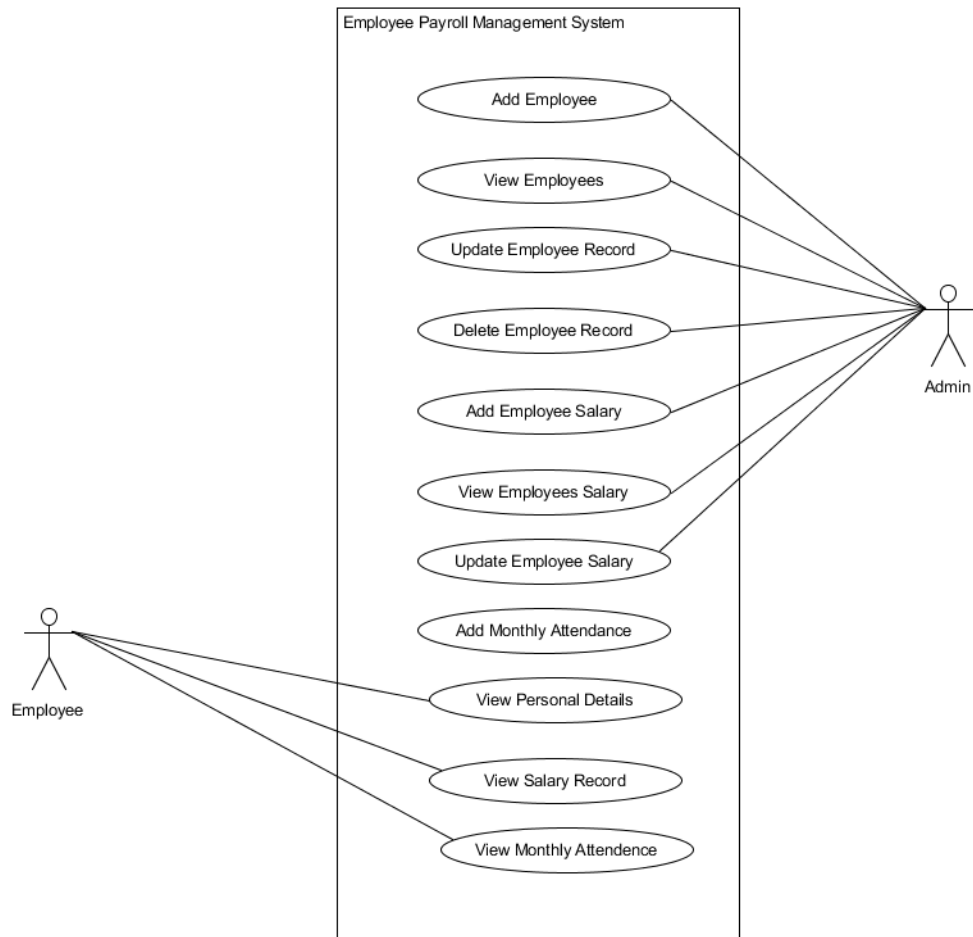
Description: Display employee Income details and modify it.

Input: User Selection and data to modify.

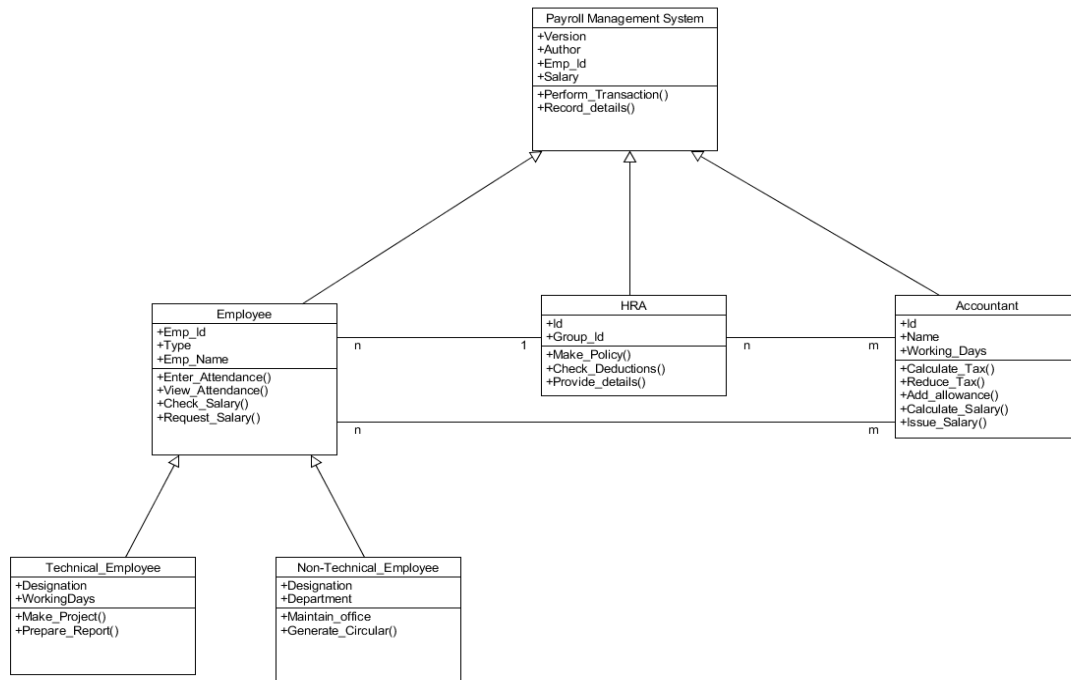
Output: Modified Salary Data.

Design

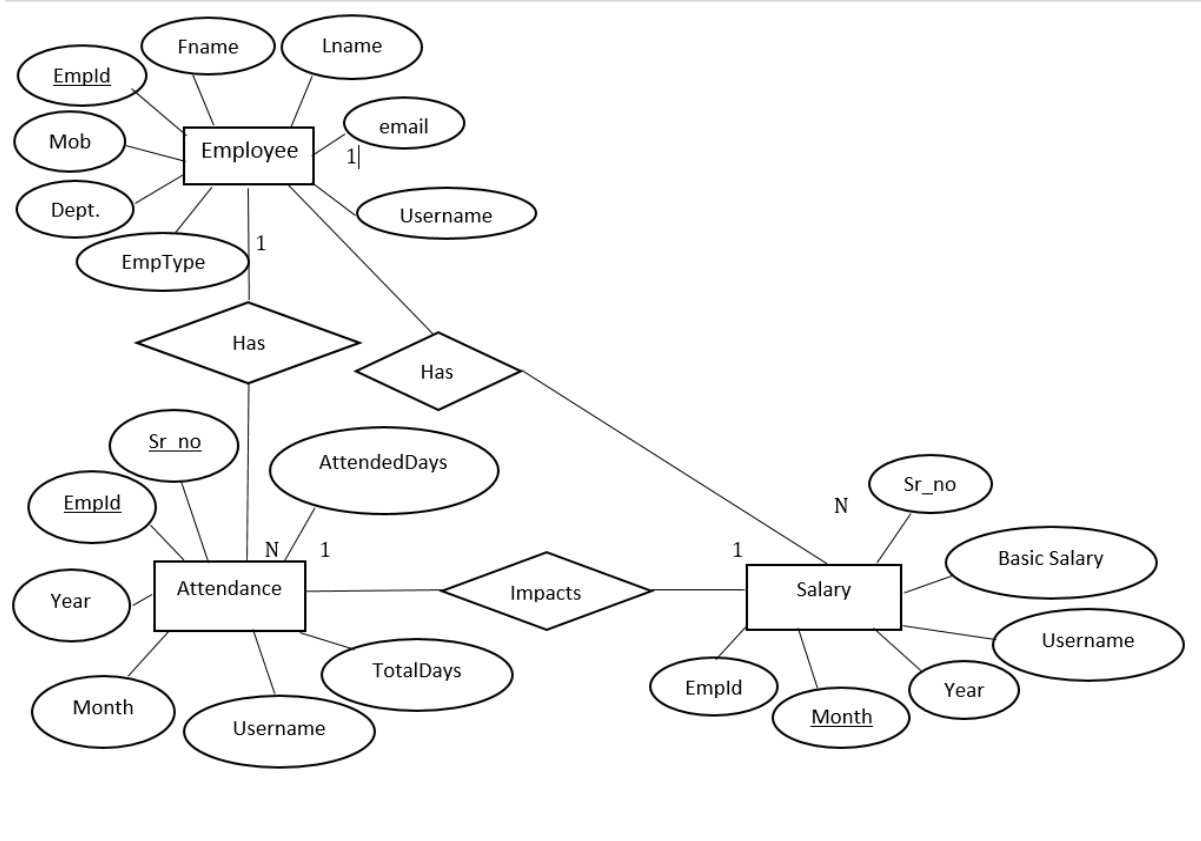
Use Case Diagram



Class Diagram:



ER Diagram:



Data Dictionary:

Personal_Details								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1	EmpId	Number	10	Yes	Yes	Yes (auto-Increment)		
2	FirstName	Varchar2	15	Yes	No			
3	LastName	Varchar2	15	Yes	No			
4	MobNo	Varchar2	10	Yes	Yes			
5	Email	Varchar2	40	Yes	Yes			
6	EmpType	Varchar2	10	Yes	No			
7	Department	Varchar2	20	Yes	No			
8	Username	Varchar2	20	Yes	Yes			
9	Password	Varchar2	64	Yes	No			

Attendance								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1	Sr_no	Number		Yes	Yes	PK		
2	EmpId	Number	10	Yes	Yes	FK	Personal_Details	
3	Username	Varchar2	20	Yes	Yes			
4	Attended Days	Number		Yes	No			
5	Total Days	Number		Yes	No			

Salary								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1	Sr_No	Number	10	Yes	Yes	PK		
2	EmpId	Number	10	Yes	Yes	FK	Personal_Details	
3	Username	Varchar2	20	Yes	Yes			
4	Basic Salary	Varchar2	10	Yes	No			
5	Month	Varchar2	12	Yes	No			
6	Year	Varchar2	12	Yes	No			
7	Gross Salary	Varchar2	10	Yes	No			
8	Net Salary	Varchar2	10	Yes	No			

Implementation Detail

i) Modules Created.

Add Data: The Module that inserts user data into the database.

View Data: This module retrieves data from the database.

Edit Data: This modules retrieves the user data and allows to modify it.

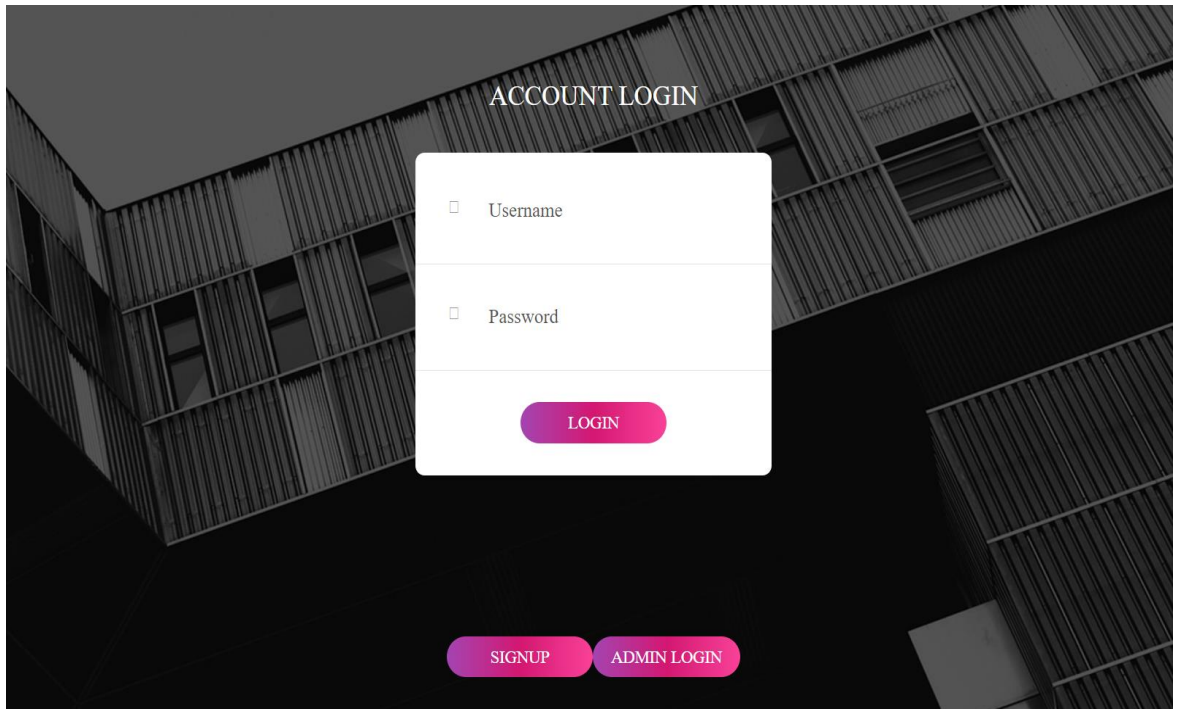
Delete Data: This module deletes data from database.

ii) Function Prototype.

The function to calculate the salary takes basic salary of employee as input and calculates all the earnings and deductions on basic salary. This function returns gross salary and net salary.

Screenshots

1. Login



2. View Employee List

EMPLOYEES									
EMP ID	FIRST NAME	LAST NAME	GENDER	EMAIL	MOBILE	EMP TYPE	DEPARTMENT	UPDATE	DELETE
2	Ekta	Hemnani	Female	ektahemnani@gmail.com	7788995566	Jr. Manager	CE	EDIT	DELETE
3	Puja	Kumari	Female	p@gmail.com	9898987766	Jr. Manager	MBA	EDIT	DELETE
5	Nayana	Sharma	Female	nayanaS@gmail.com	9898776654	sr. Clerk	EC	EDIT	DELETE
10	Puja	Sharma	Female	pujasharma11@yahoo.com	7799088566	Jr. Clerk	IT	EDIT	DELETE
12	Megha	Butani	Female	megha@gmail.com	9898775564	Jr. Manager	IT	EDIT	DELETE
13	swati	aaadd	Female	sdcsdvc@gmail.com	9898987766	sr. Clerk	MBA	EDIT	DELETE
15	Nayana	Roy	Female	nroy@gmail.com	7788995566	Jr. Clerk	IT	EDIT	DELETE

3. View Employee Attendance List.

EMPLOYEES ATTENDANCE										
EMP ID	FIRST NAME	LAST NAME	DEPARTMENT	USERNAME	MONTH	YEAR	ATTENDED DAYS	TOTAL DAYS	UPDATE	DELET
2	Ekta	Hemnani	CE	ektahemnani	January	2020	23	25	EDIT	DELETE
2	Ekta	Hemnani	CE	ektahemnani	February	2020	24	26	EDIT	DELETE
2	Ekta	Hemnani	CE	ektahemnani	March	2020	26	26	EDIT	DELETE
12	Megha	Butani	IT	meghabutani	January	2020	23	25	EDIT	DELETE
12	Megha	Butani	IT	meghabutani	February	2020	25	26	EDIT	DELETE
12	Megha	Butani	IT	meghabutani	March	2020	23	26	EDIT	DELETE
26	Janvi	Patel	IT	janvi	January	2020	24	25	EDIT	DELETE
26	Janvi	Patel	IT	janvi	February	2020	22	26	EDIT	DELETE
26	Janvi	Patel	IT	janvi	March	2020	24	26	EDIT	DELETE

4. Update Employee Salary

First Name

Ekta

LastName

Hemnani

Department

CE

Username

ektahemnani

Month

January

Year

2020

Basic Salary

51000

Submit

5. View Employee Salary.

EMPLOYEES SALARY											
EMP ID	FIRST NAME	LAST NAME	DEPARTMENT	USERNAME	MONTH	YEAR	BASIC SALARY	HOUSE RENT ALLOWANCE(E)	MEDICAL ALLOWANCE(E)	DEARNESS ALLOWANCE(E)	GROSS SALARY
2	Ekta	Hemnani	CE	ektahemnani	January	2020	45000	6750	4500	9000	65250
2	Ekta	Hemnani	CE	ektahemnani	February	2020	47000	7050	4700	9400	68150
2	Ekta	Hemnani	CE	ektahemnani	March	2020	48000	7200	4800	9600	69600
2	Ekta	Hemnani	CE	ektahemnani	April	2020	51000	7650	5100	7650	71400
26	Janvi	Patel	IT	janvi	January	2020	40000	6000	4000	8000	58000
26	Janvi	Patel	IT	janvi	February	2020	42000	6300	4200	8400	60900
26	Janvi	Patel	IT	janvi	March	2020	44000	6600	4400	8800	63800

INCOME TAX(D)	PROFESSIONAL TAX(D)	VEHICLE ADVACE(D)	NET SALARY	
4500	200	4500	56050	EDIT
4700	200	4700	58550	EDIT
4800	200	4800	59800	EDIT
5100	200	5100	61000	EDIT
4000	200	4000	49800	EDIT
4200	200	4200	52300	EDIT
4400	200	4400	54800	EDIT

6. Employee Profile.

Employee Profile	
Emp ID	26
FirstName	Janvi
Lastname	Patel
Gender	Female
Email	janvi@yahoo.com
Mobile No	9099098761
Emp Type	Jr. Manager
Department	BBA

7. Month Wise Attendance

Month Year

Employee Attendance	
Emp ID	26
Username	janvi
Month	January
Year	2020
Attended Days	24
Total Days	25
Total Attendance	96%

8. Month Wise Income Record.

Month Year

Employee Salary Profile	
Emp ID	26
Username	janvi
Month	March
Year	2020
Basic Salary	44000

Earnings	
House Rent Allowance(E)	6600
Medical Allowance(E)	4400

Earnings	
House Rent Allowance(E)	6600
Medical Allowance(E)	4400
Dearness Allowance(E)	8800
Gross Salary	63800

Deductions	
Income Tax(D)	4400
Professional Tax(D)	200
Vehicle Advance(D)	4400
Net Salary	54800

Conclusion

1. The Employee record is being managed by the System.
2. The Employee record includes employee's personal details, attendance and salary information.
3. Employee can view his month wise salary and also print it.
4. Employee can view his month wise attendance.

Limitation and Future Extension

Employee don't have an option to view his yearly income statement.

Bibliography

1. <https://www.w3schools.com>
2. <https://stackoverflow.com>
3. <https://www.codeproject.com>