Project title:

ROLE-BASED EMPLOYEE MANAGEMENT SYSTEM

(Batch:01 Group:06)

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DESCRIPTION

1.1 OVERVIEW

The **Role-Based Employee Management System** is a web-based application designed to streamline employee management processes through a role-based access control mechanism.It is a comprehensive solution designed to manage employee data efficiently, based on user roles. The system offers two main roles: Admin and Employee, each with specific access and functionalities.

- **Admin** users have full control over employee management, including the ability to view a list of all employees, add new employees, update existing employee details, and delete employee records. This ensures that administrators can maintain accurate and up-to-date employee information across the organization.
- **Employee** users have access to a personalized dashboard where they can view their own details and download their payslip in PDF format. This provides employees with a simple and secure way to manage and access their personal information.

The system is designed to enhance security, simplify employee management tasks, and ensure that each user has access to the appropriate features according to their role. This role-based structure ensures that sensitive data is protected and only accessible to authorized users.

I. Technologies Used

- **Backend Technologies –**

1. **Spring Boot** is used to develop the core application logic, ensuring modularity and scalability.
2. **Spring Security** is utilized to manage role-based authentication and authorization, ensuring that different users have access to the appropriate dashboards and functionalities.
3. **Hibernate** is used to handle database operations, providing seamless interaction with the database.

- **Frontend Technologies-**

  HTML, **CSS**, and **JavaScript** form the basis of the user interface, creating a responsive and intuitive design for both the admin and employee dashboards.

- **Database-**

  The application uses **MySQL** to store and manage employee information, user credentials, and other related data securely.

II. Flowchart

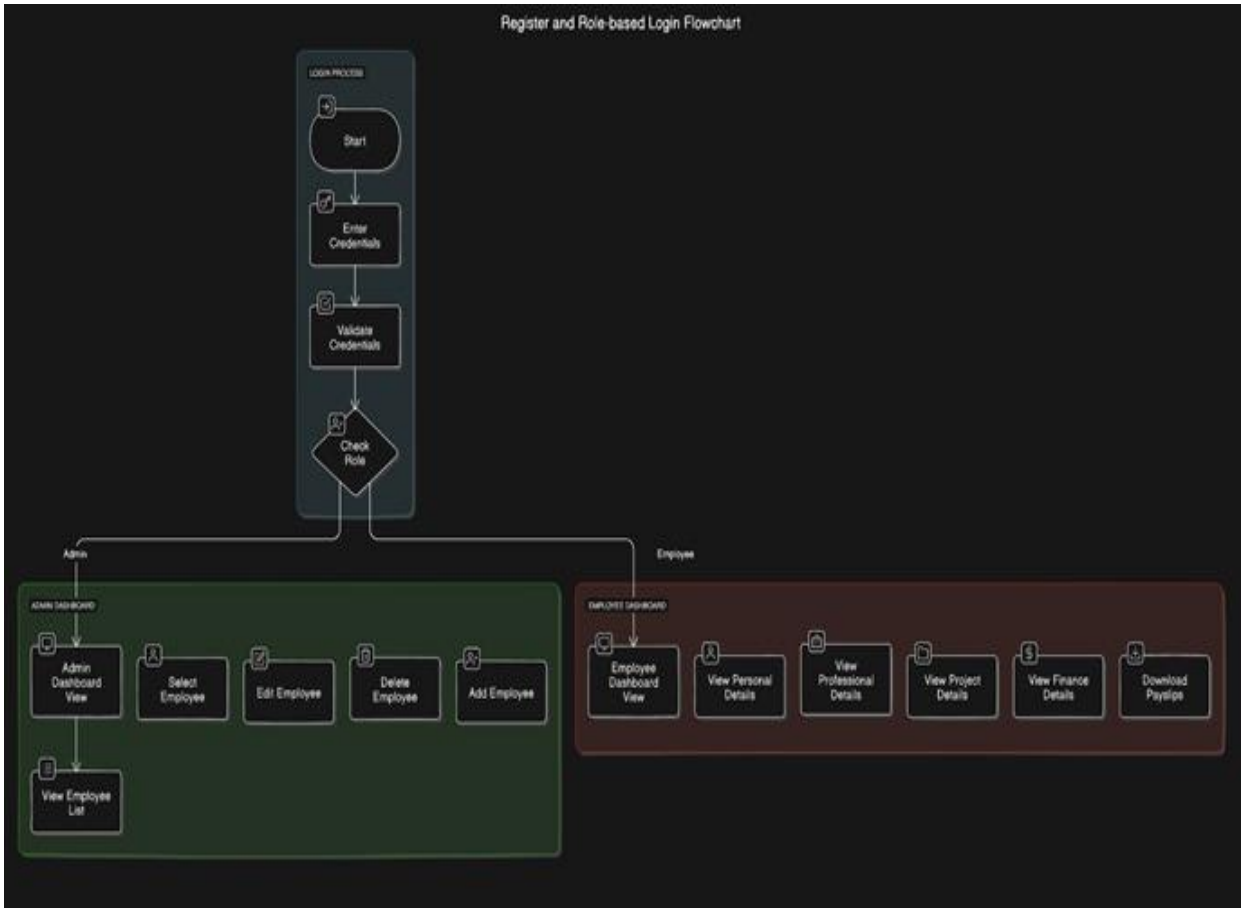


Fig. System Flowchart

1.2 KEY FEATURES

1.Role-Based Authentication:

The system implements a role-based login mechanism using Spring Security. There are two primary roles:

a) Admin - Upon successful login, the admin is redirected to an admin dashboard.

b) Employee- Upon successful login, the employee is redirected to an employee dashboard.

2. Admin Dashboard:

On admin dashboard, admin have access to the following functionalities:

- View the complete list of employees.
- Add new employees.
- Edit employee details.
- Delete employees from the system.

3. Employee Dashboard:

On Personal dashboard, Employees can:

- View their own details.
- Download their payslip in **PDF** format.

4. Payslip Generation:

Employees can download their payslips in **PDF** format as well as they can print payslip from dashboard, adding a practical feature to the employee dashboard.

PARTICIPANTS

1. **Nikhil Tirath Sharma:**
   - Worked on the frontend modules which are login, Admin Dashboard, Employee Dashboard of the application.
   - Worked on backend part of the application which includes models, services, controllers, implementing role-based login feature using spring security.

2. **Nayana Rajesh Patil:**
   - Worked on backend of application which includes implementing layers which are model, service, controller ,repository.
   - Contributed to work of implementing role-based login feature using spring security.

3. **Mallikarjun Muramshetty:**
   - Worked on creating structure and designing entire Home page of the application.

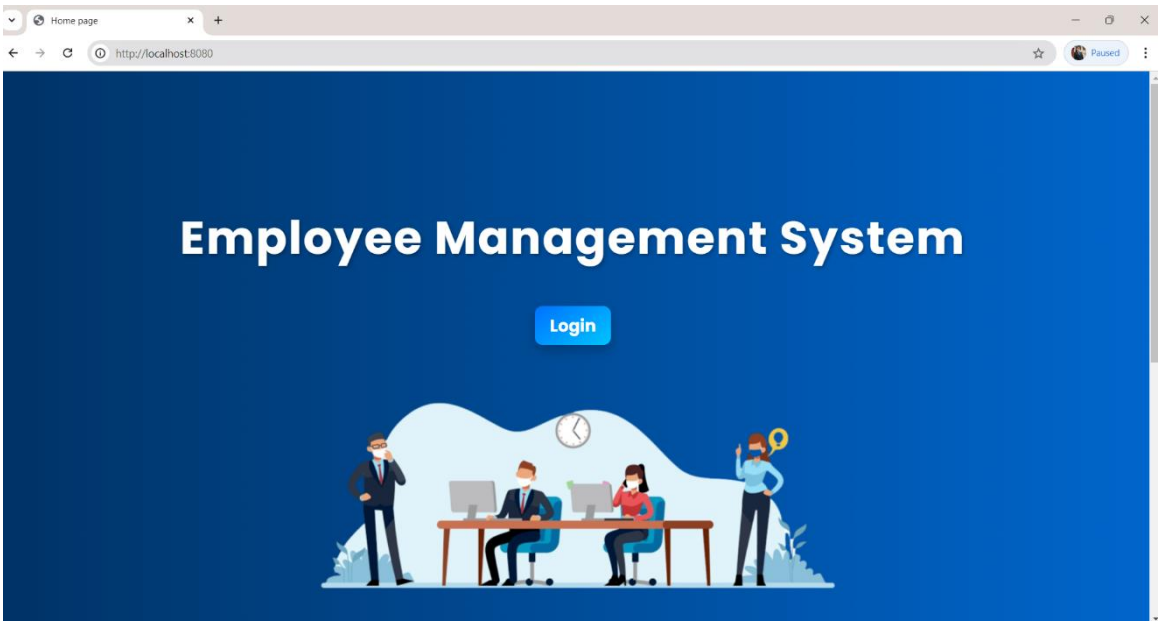
4. **R Lakshmi Mahitha:**
   - Worked on designing payslip module which include payslip design and download ,print functions.

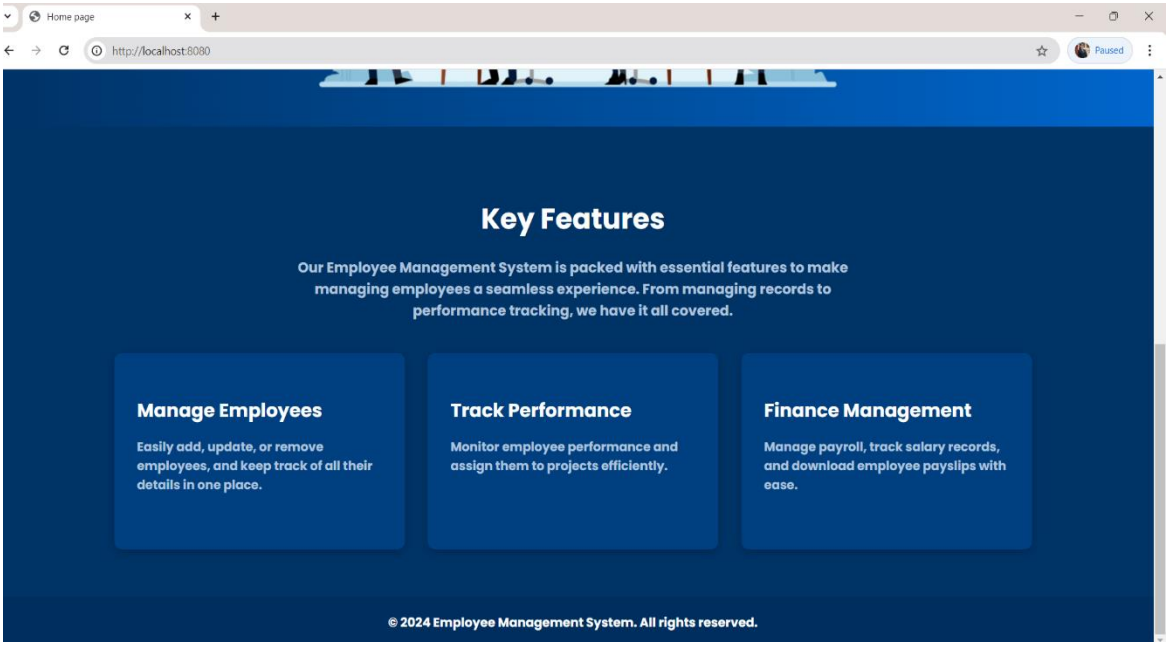
5. **Nagma Koninti:**
   - Contributed to designing payslip module which include payslip design and download ,print functions.

6. **Pathak Shrijal Santoshanand:**
   - Contributed to some frontend designing of application.

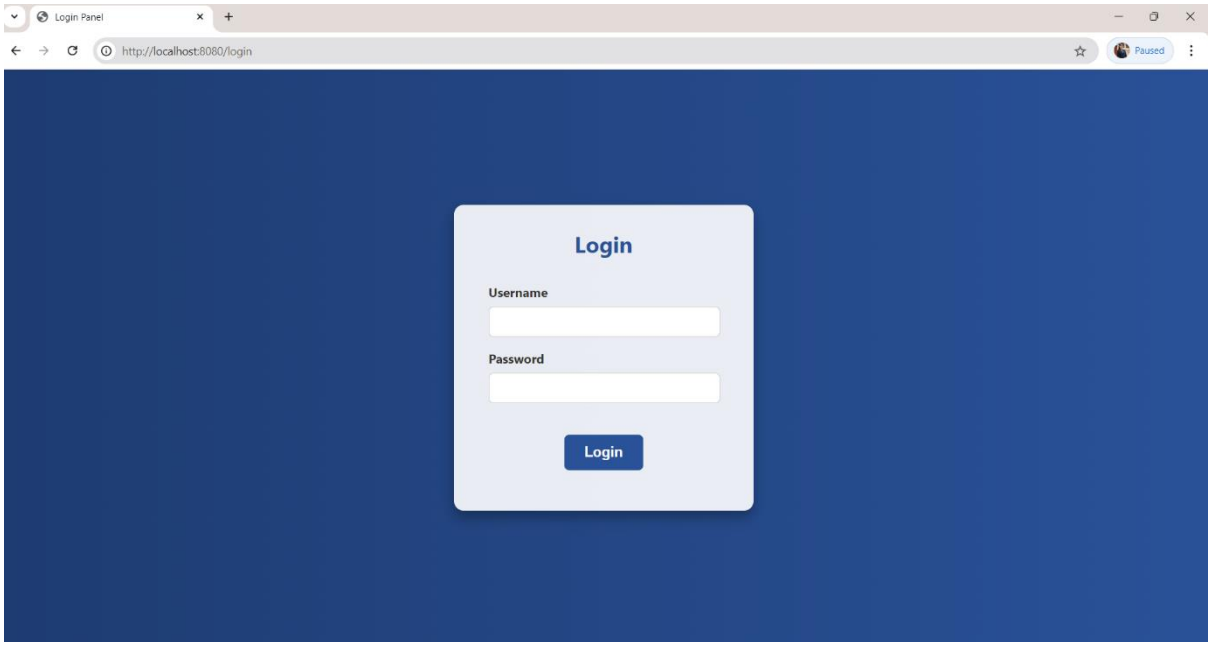
RESULTS

1. Home Page:

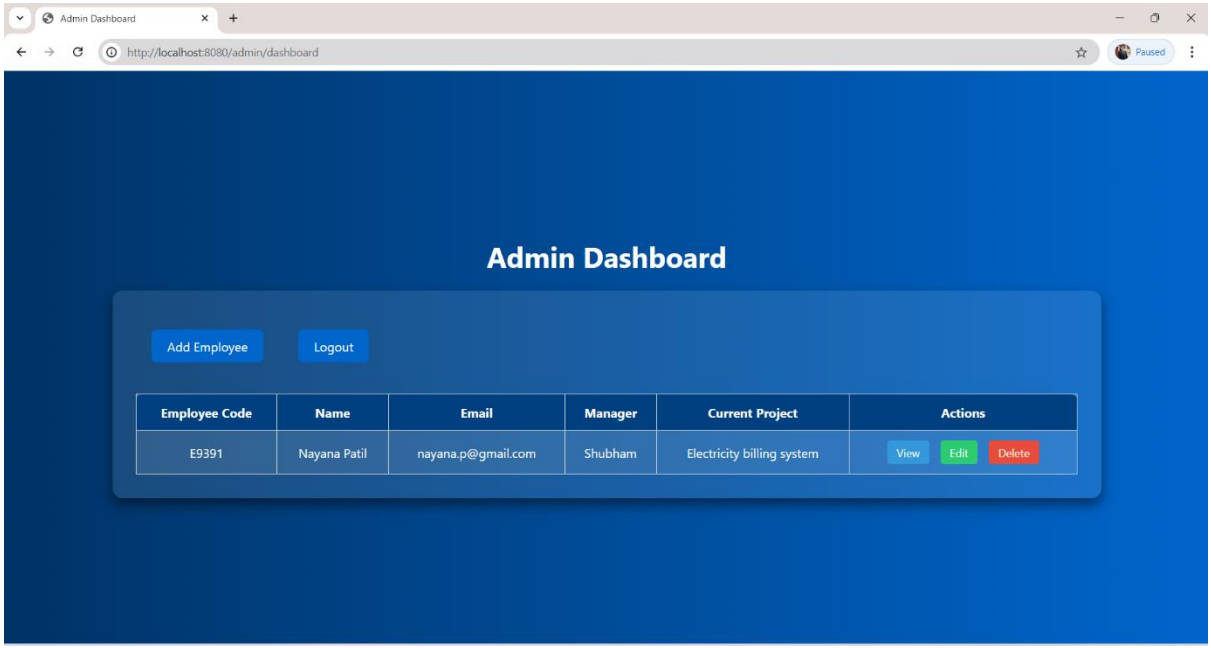




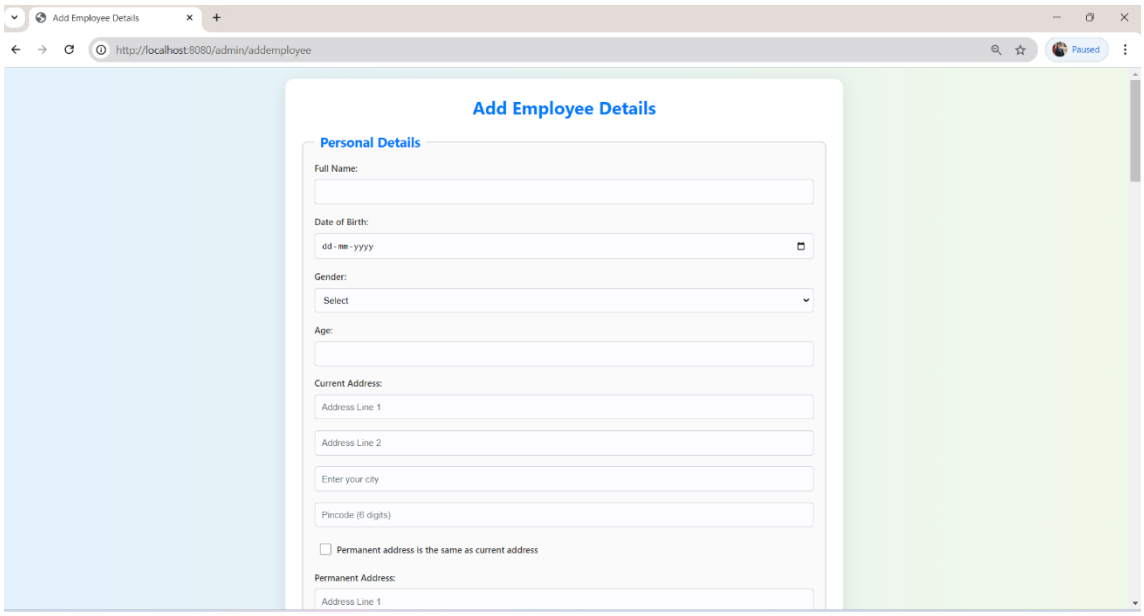
2.Login Page:

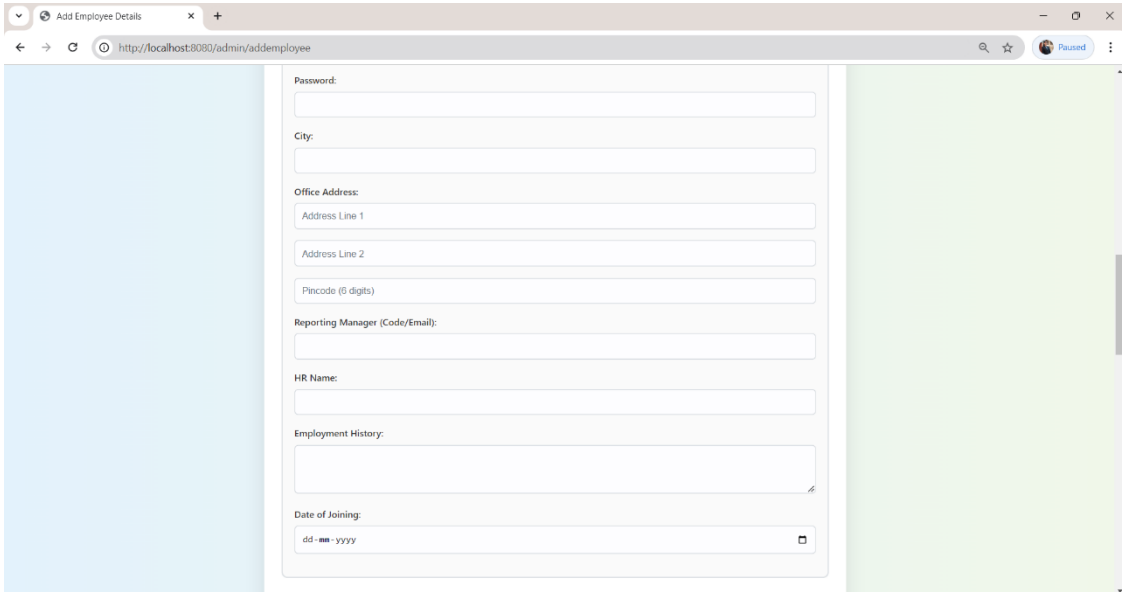


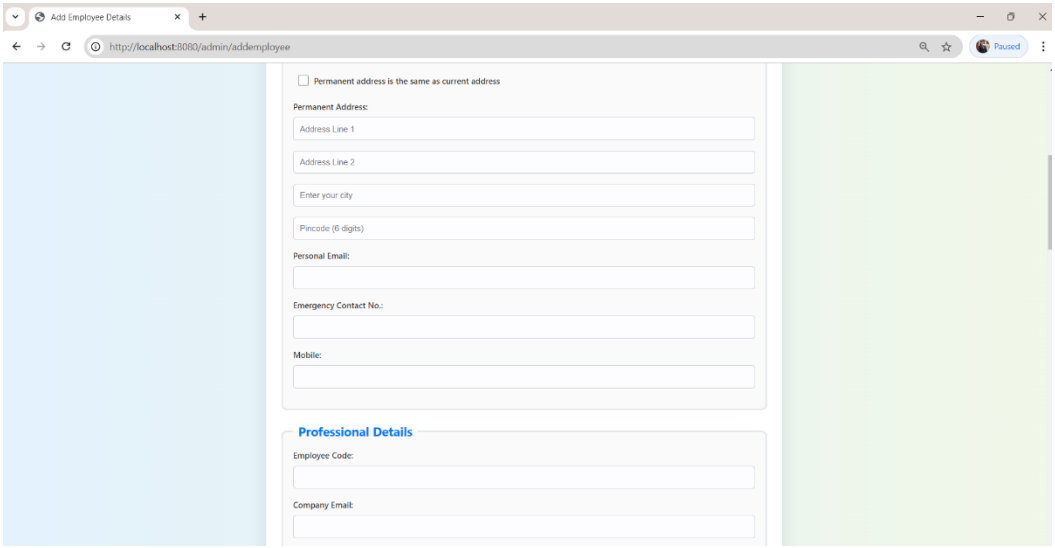
3.Admin dashboard:

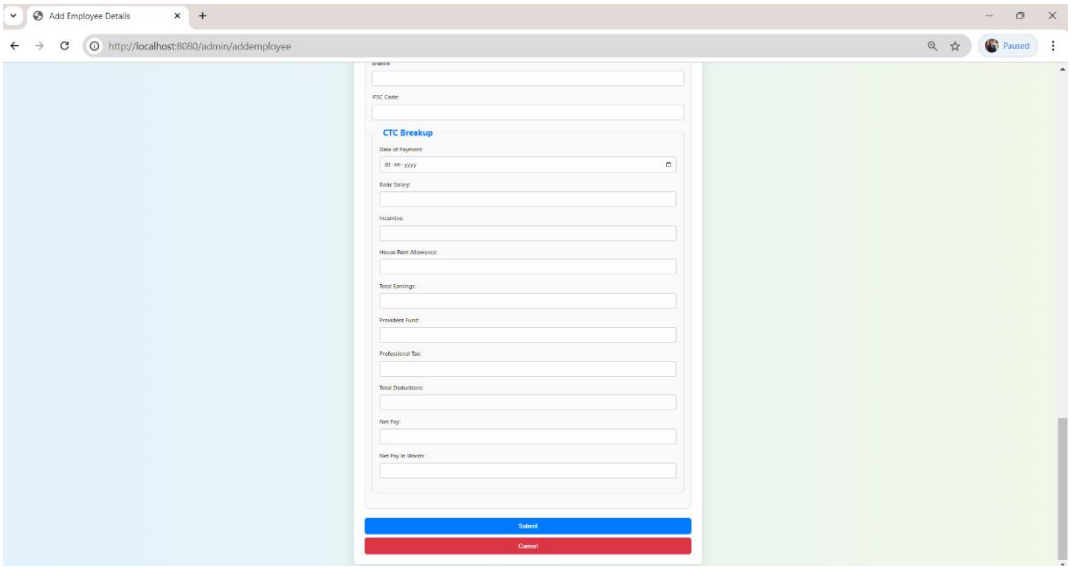


3.1 Add Employee:









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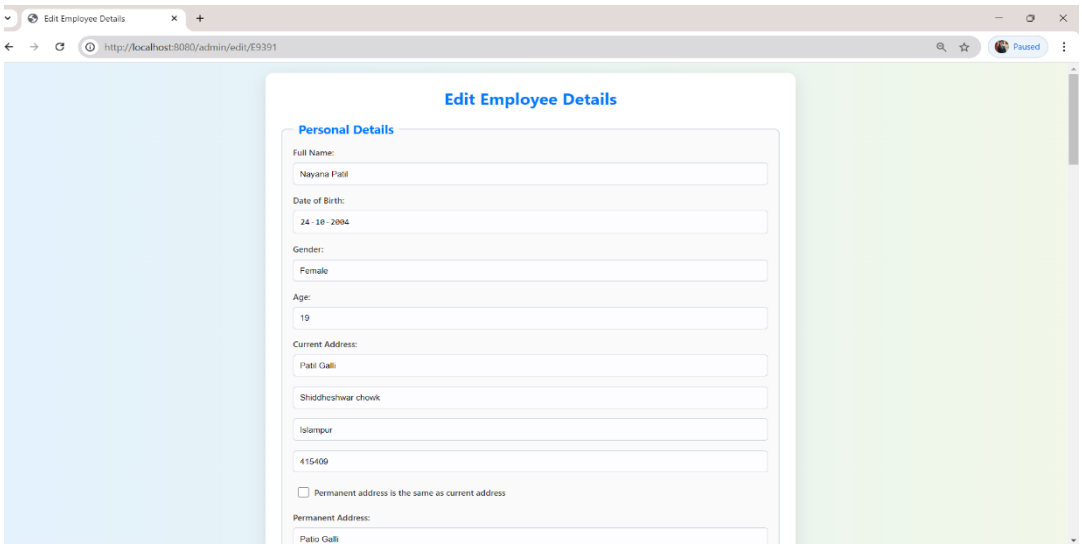
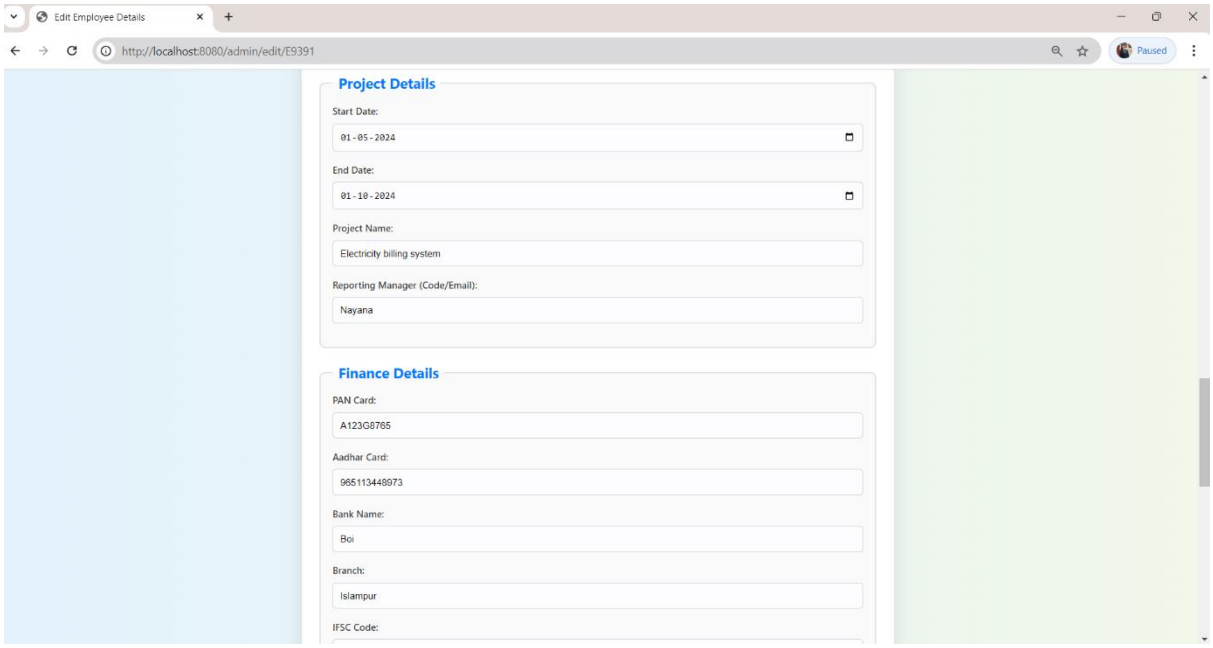
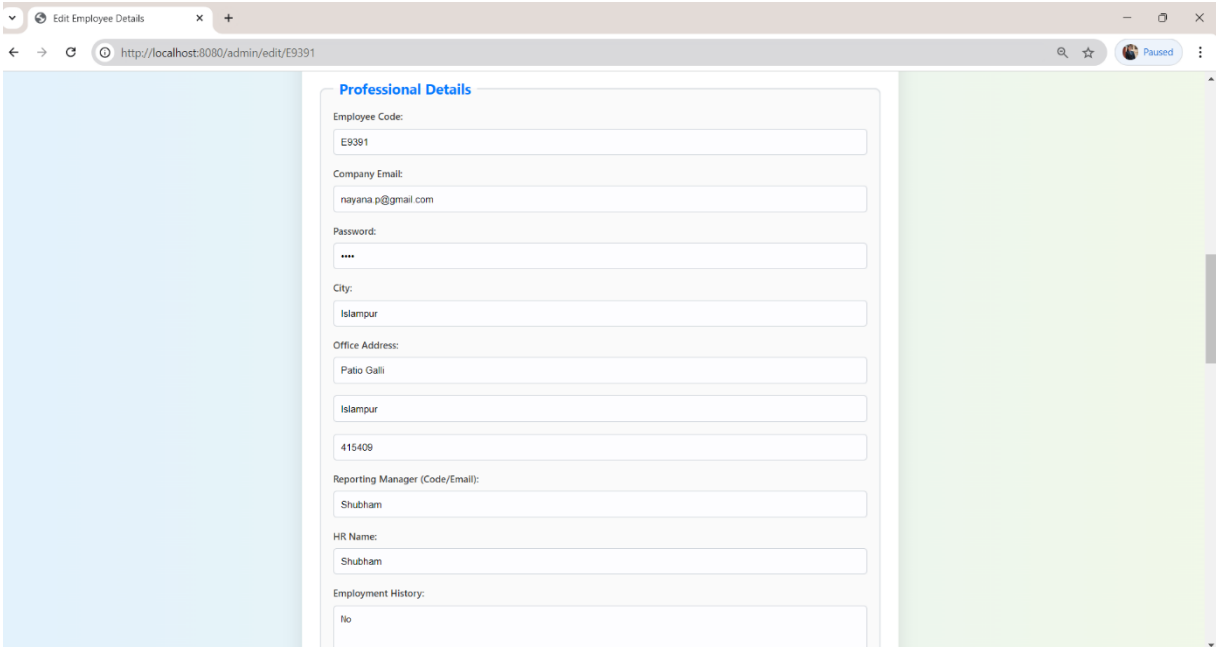
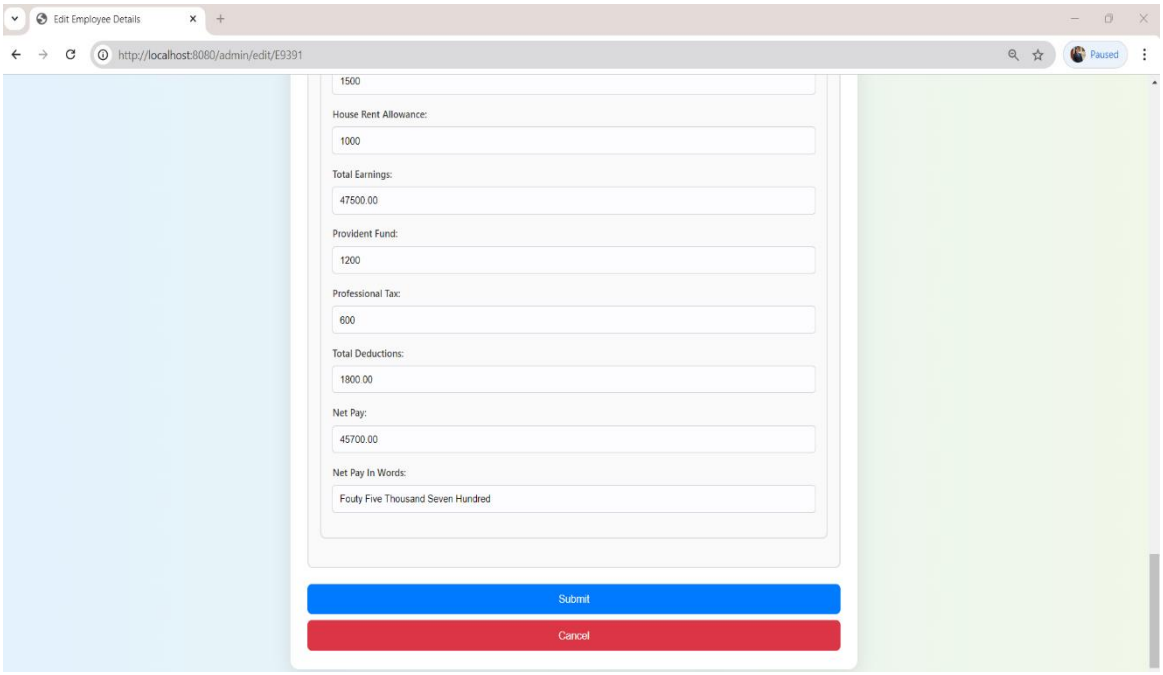
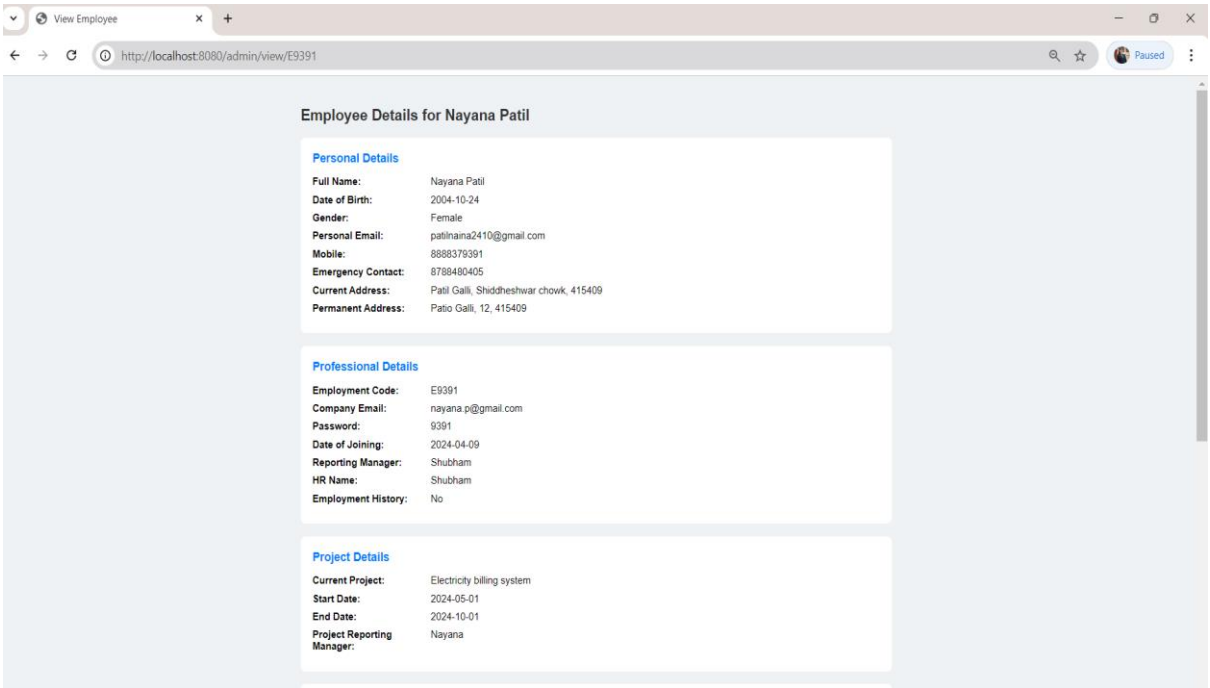


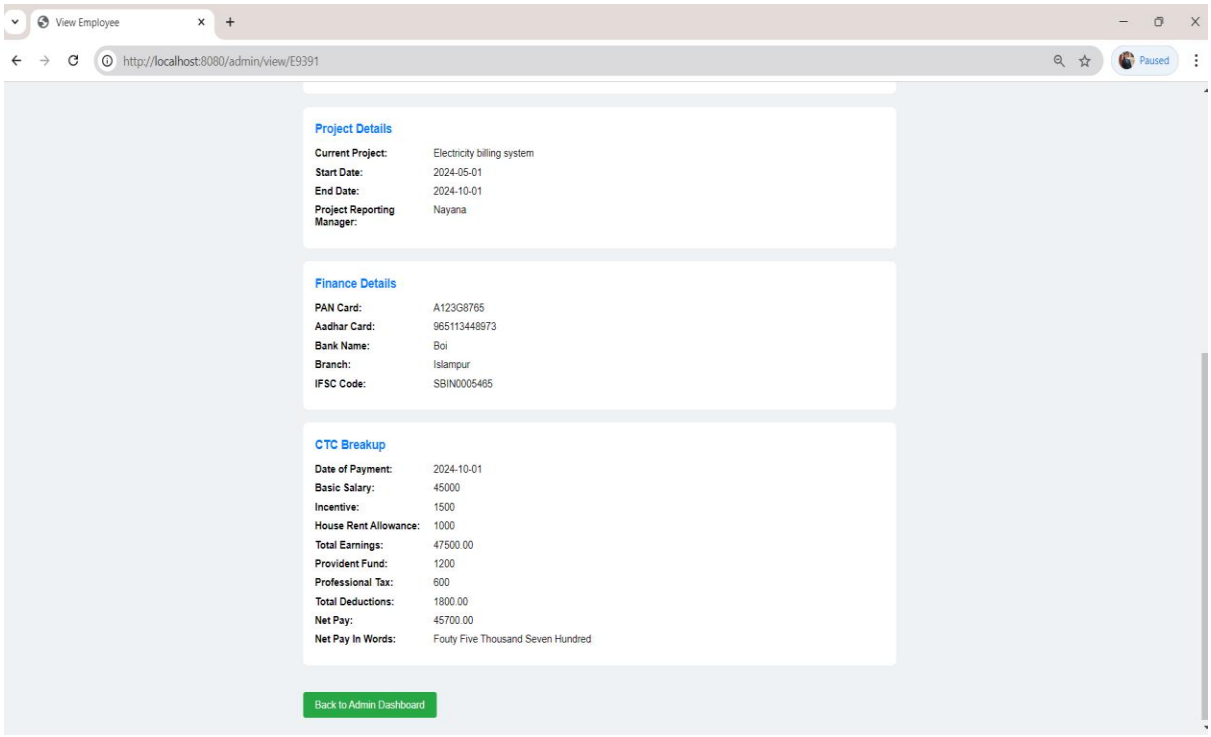

Edit Employee Details
http://localhost:8080/admin/edit/E9391
Paused
Project Details
Start Date:
01-05-2024
End Date:
01-10-2024
Project Name:
Electricity billing system
Reporting Manager (Code/Email):
Nayana
Finance Details
PAN Card:
A123G8765
Aadhar Card:
965113448973
Bank Name:
Boi
Branch:
Islampur
IFSC Code:


Edit Employee Details
http://localhost:8080/admin/edit/E9391
Paused
Professional Details
Employee Code:
E9391
Company Email:
nayana.p@gmail.com
Password:
City:
Islampur
Office Address:
Patio Galli
Islampur
415409
Reporting Manager (Code/Email):
Shubham
HR Name:
Shubham
Employment History:
No

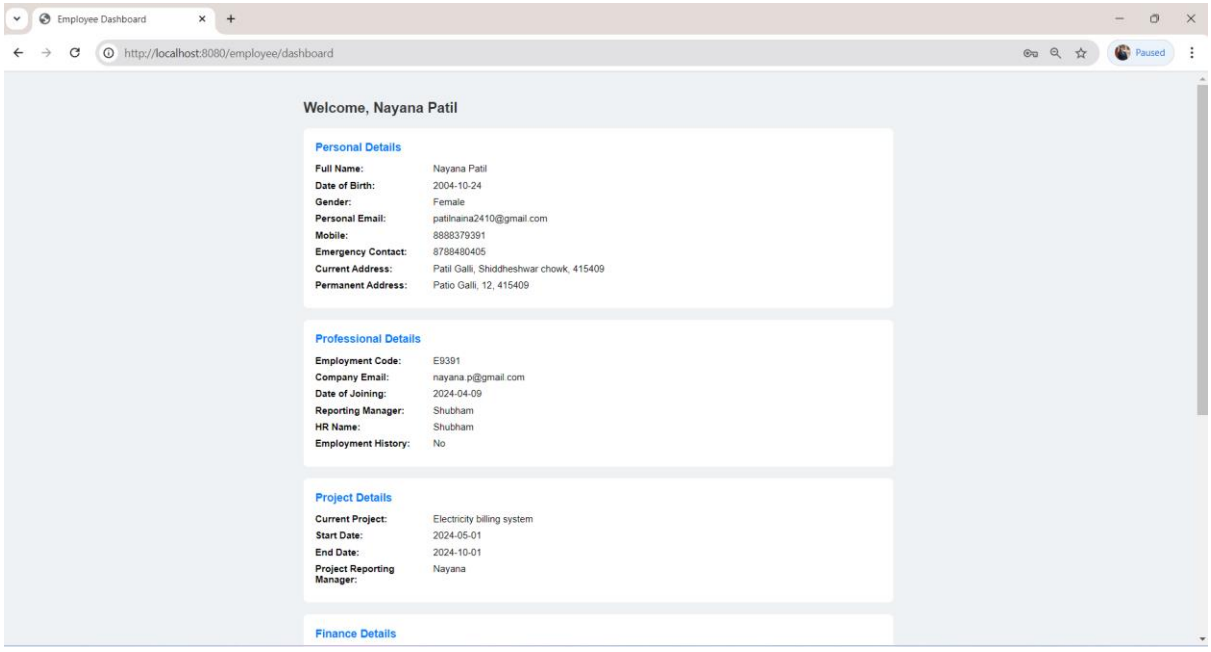


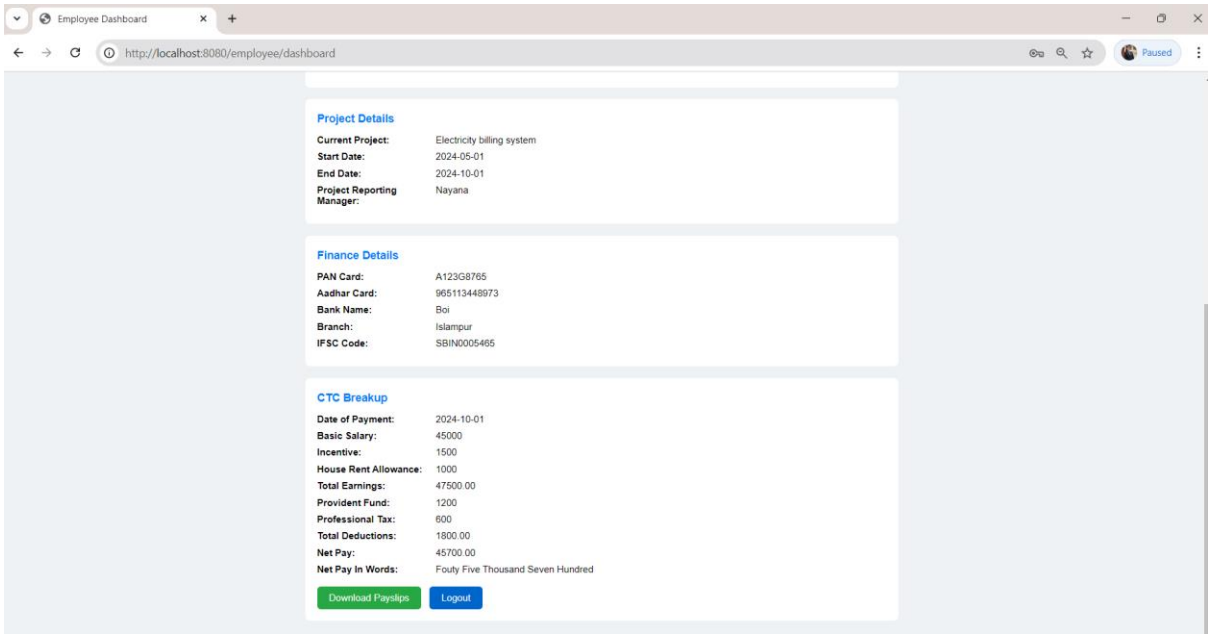
3.3 View Employee Details:



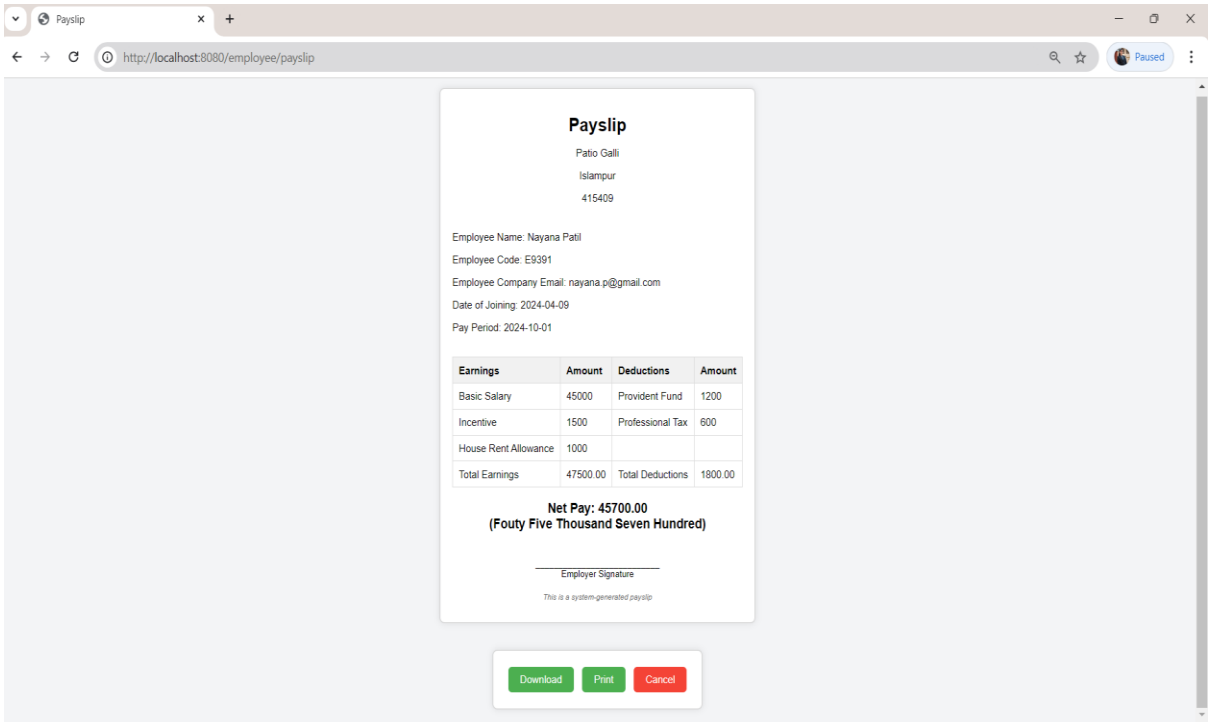


4. Employee Dashboard:

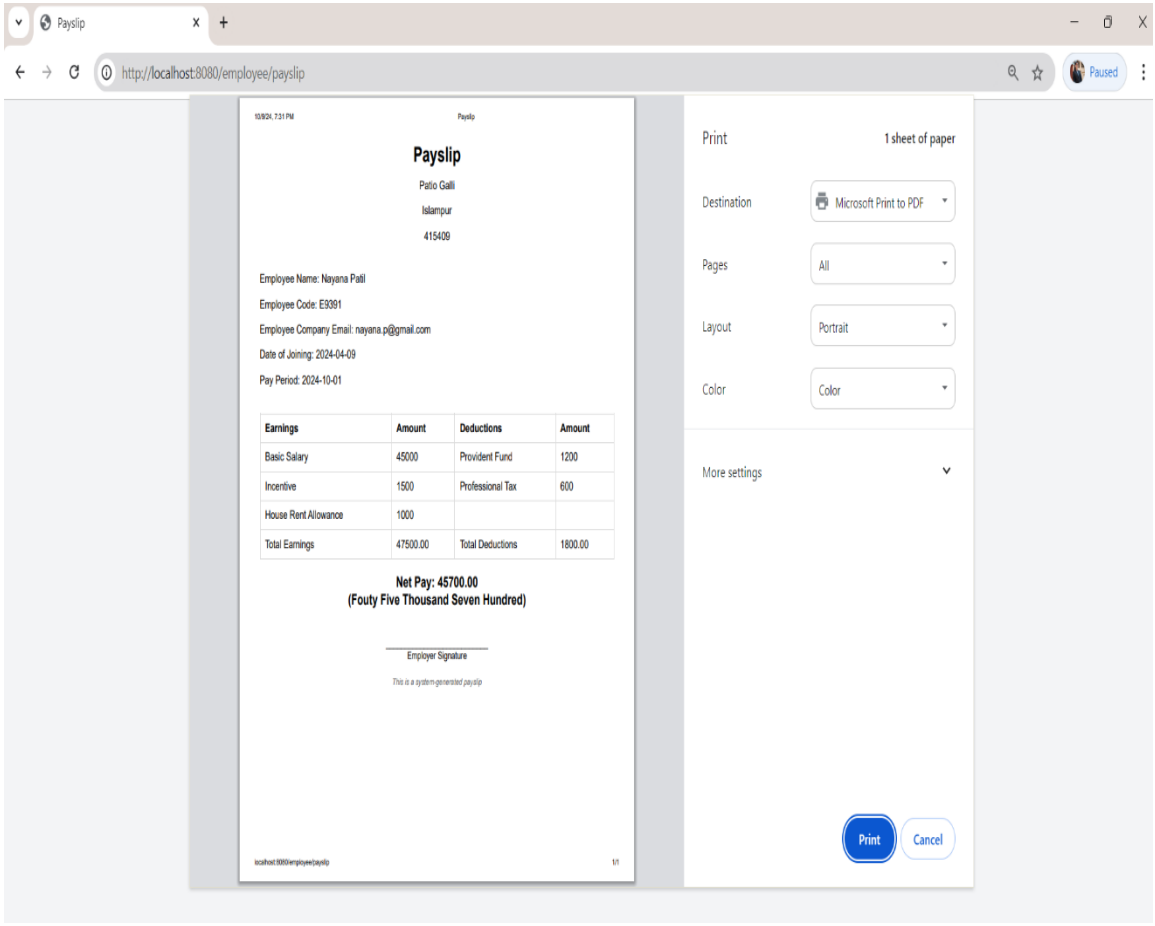




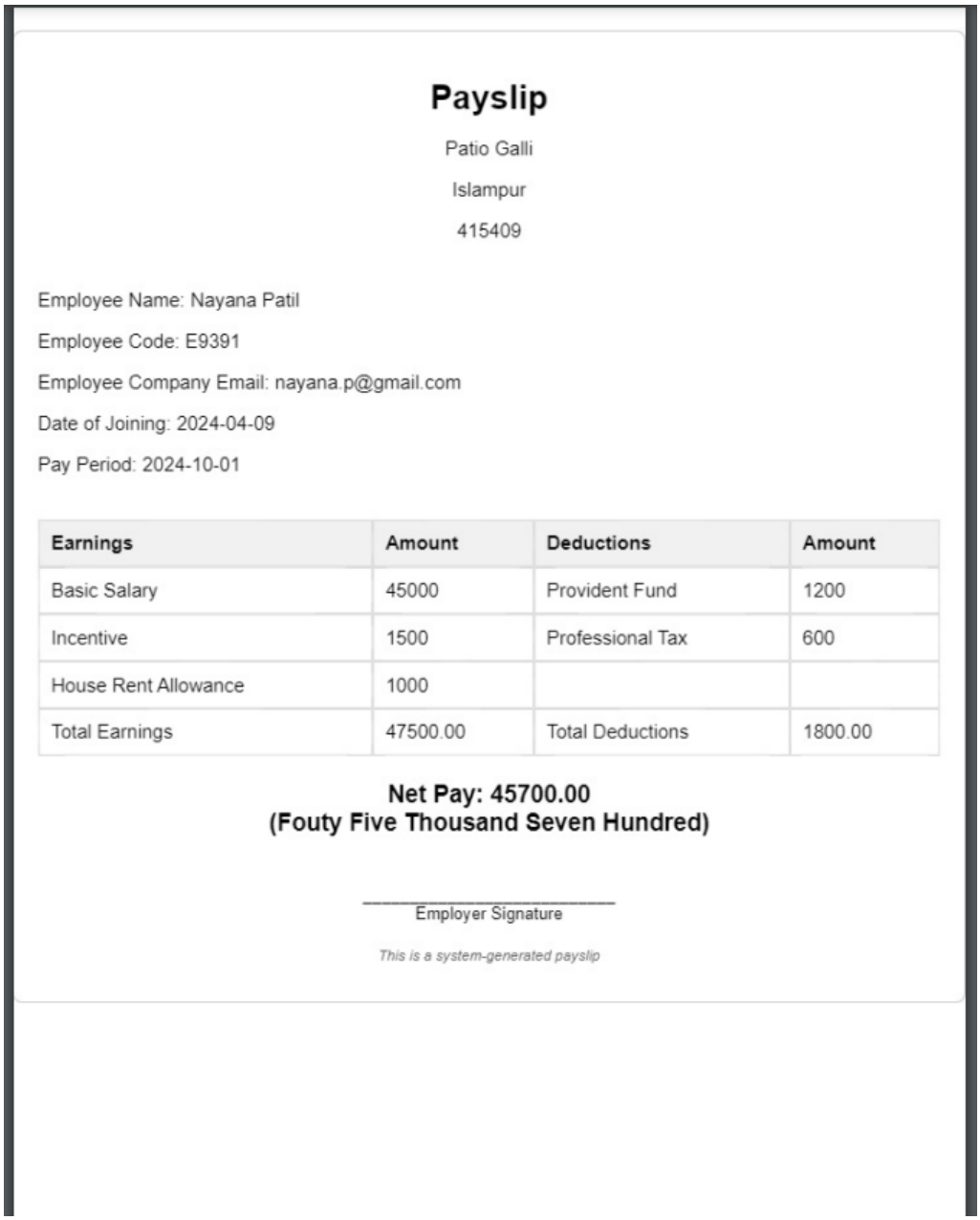
4.1 Payslip Generation:



4.2 Payslip Print Function:



4.3Downloaded Payslip:



Payslip

Patio Galli

Islampur

415409

Employee Name: Nayana Patil

Employee Code: E9391

Employee Company Email: nayana.p@gmail.com

Date of Joining: 2024-04-09

Pay Period: 2024-10-01

Earnings	Amount	Deductions	Amount
Basic Salary	45000	Provident Fund	1200
Incentive	1500	Professional Tax	600
House Rent Allowance	1000		
Total Earnings	47500.00	Total Deductions	1800.00

Net Pay: 45700.00
(Fouty Five Thousand Seven Hundred)

_____
Employer Signature

This is a system-generated payslip

GITHUB REPOSITORY LINK

- https://github.com/sharmanikkkhil/EmployeeManagementSystem