

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

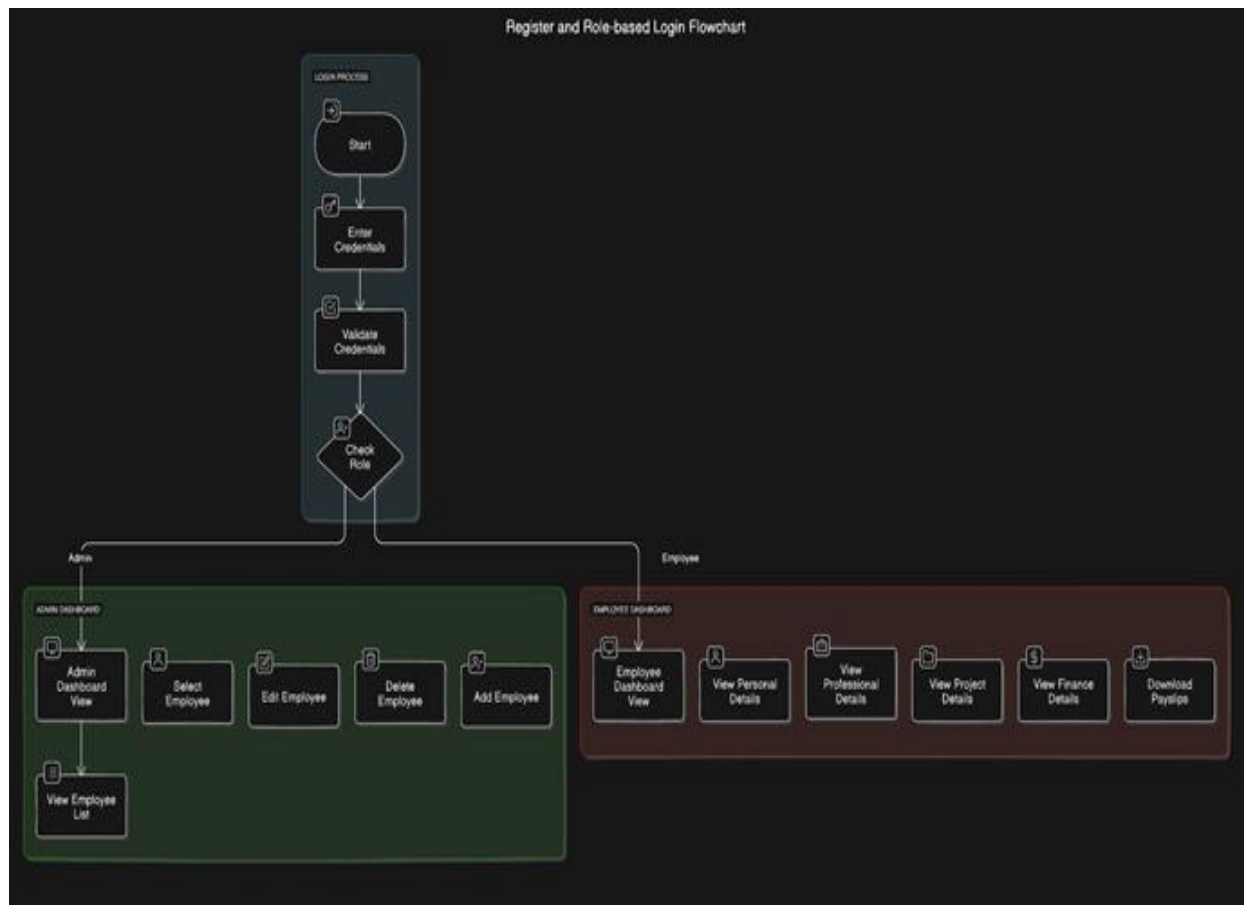


Fig. System Flowchart

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:

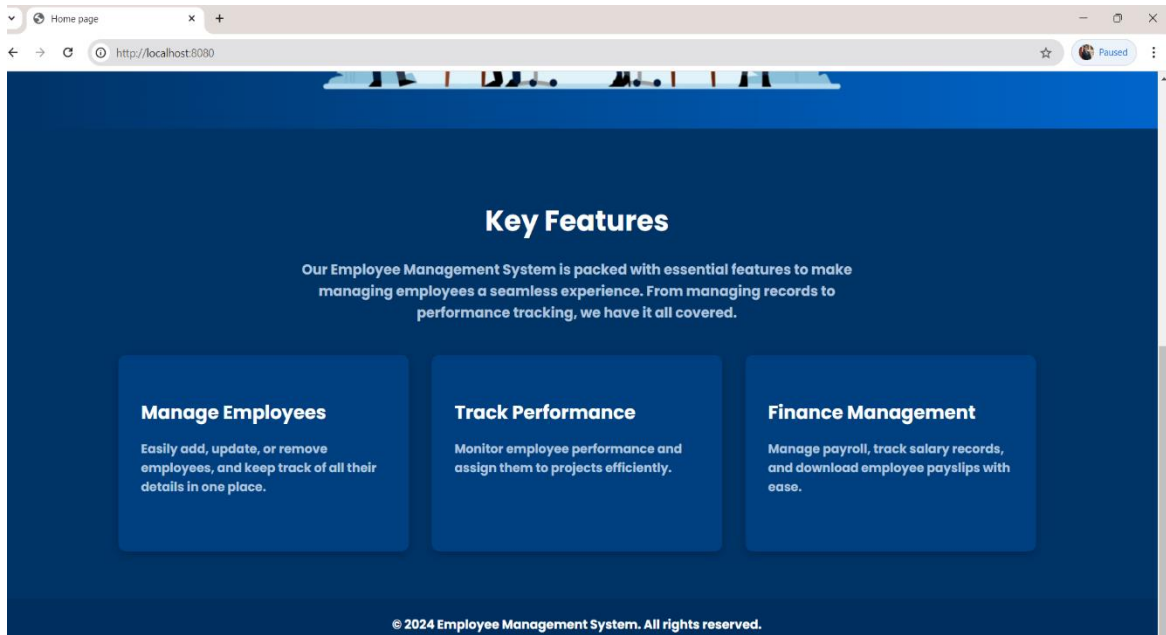
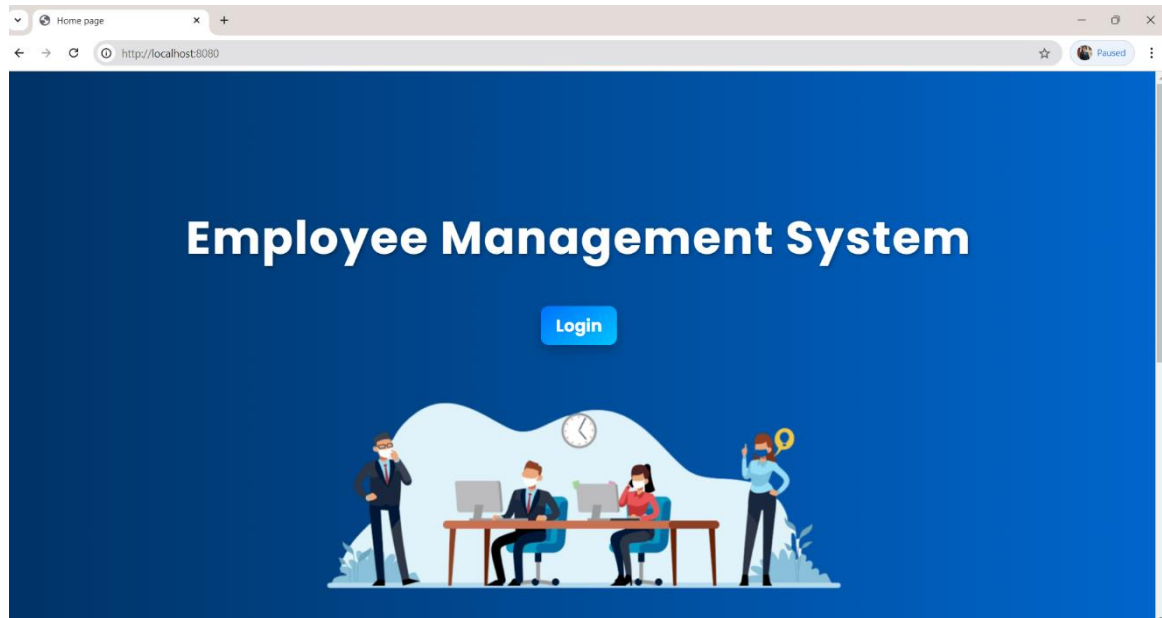
- Contributed to designing payslip module which include payslip design and download ,print functions.

6. Pathak Shrijal Santoshanand:

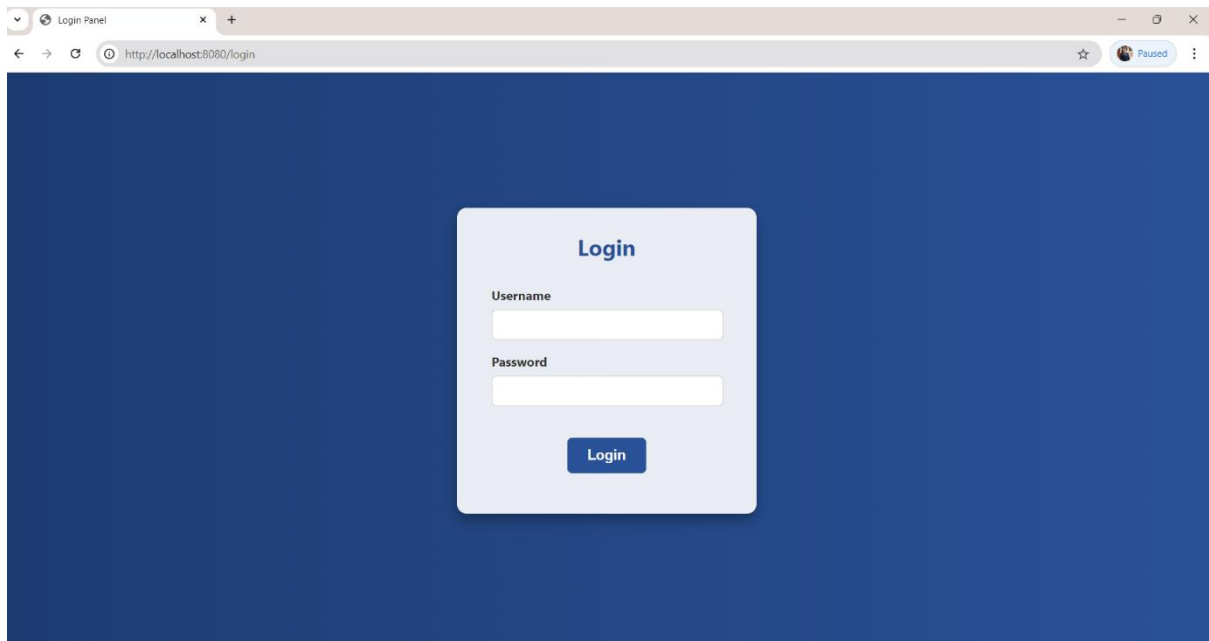
- Contributed to some frontend designing of application.

RESULTS

1. Home Page:



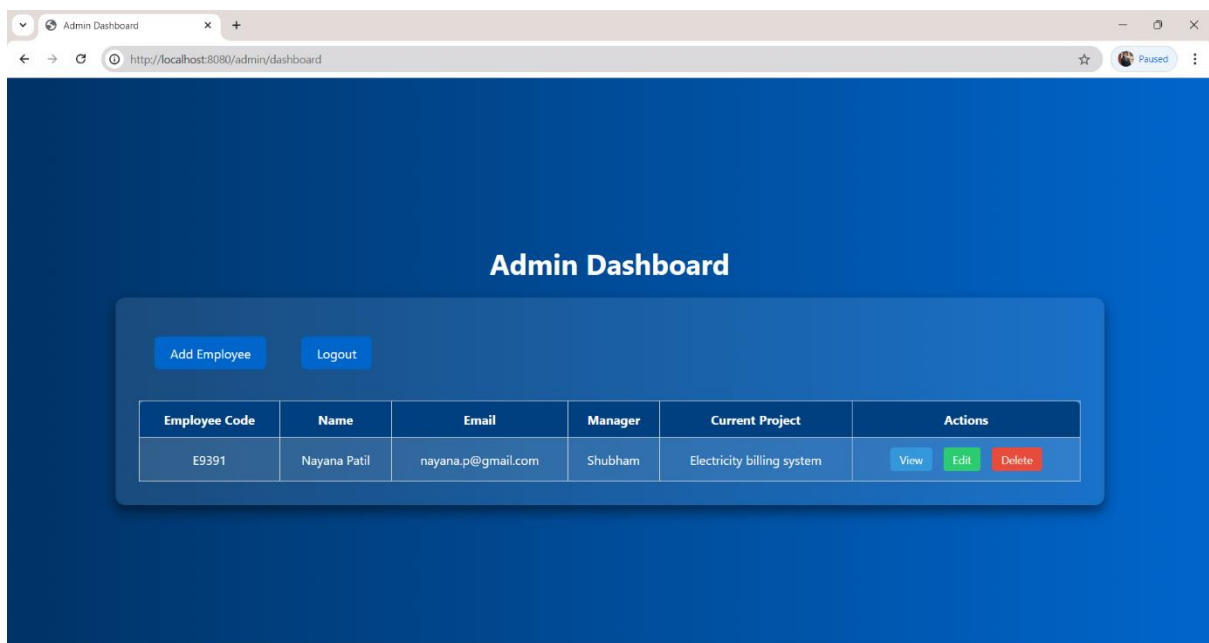
2.Login Page:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8080/login`. The page features a dark blue background. In the center, there is a light blue rectangular box containing the following elements:

- Login** (title)
- Username** label above a text input field.
- Password** label above a text input field.
- Login** button.

3.Admin dashboard:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8080/admin/dashboard`. The page features a dark blue background. In the center, there is a light blue rectangular box containing the following elements:

- Admin Dashboard** (title)
- Add Employee** button.
- Logout** button.
- A table with the following data:

Employee Code	Name	Email	Manager	Current Project	Actions
E9391	Nayana Patil	nayana.p@gmail.com	Shubham	Electricity billing system	View Edit Delete

3.1 Add Employee:

The screenshot shows a web browser window with the title 'Add Employee Details' and the URL 'http://localhost:8080/admin/addemployee'. The page features a light blue sidebar on the left and a light green sidebar on the right. The main content area is a white card titled 'Add Employee Details' with a sub-section 'Personal Details'. The form fields in this section are: Full Name (text input), Date of Birth (date picker showing 'dd-mm-yyyy'), Gender (dropdown menu with 'Select' option), Age (text input), Current Address (three stacked text inputs for Address Line 1, Address Line 2, and a city input with the placeholder 'Enter your city'), Pincode (5 digits) (text input), a checkbox for 'Permanent address is the same as current address', and Permanent Address (text input for Address Line 1).

The screenshot shows the lower portion of the 'Add Employee Details' form. The fields include: Password (text input), City (text input), Office Address (three stacked text inputs for Address Line 1, Address Line 2, and a pincode input with the placeholder 'Pincode (5 digits)'), Reporting Manager (Code/Email) (text input), HR Name (text input), Employment History (text area with a placeholder icon), Date of Joining (date picker showing 'dd-mm-yyyy'), and a checkbox for 'Permanent address is the same as current address'.

Permanent address is the same as current address

Permanent Address:

Address Line 1

Address Line 2

Enter your city

Pincode (6 digits)

Personal Email:

Emergency Contact No.:

Mobile:

Professional Details

Employee Code:

Company Email:

CTC Breakup

Date of Payment

Basic Salary

Incentive

House Rent Allowance

Total Savings

Provident Fund

Professional Tax

Total Deductions

Net Pay

Net Pay in Words

Permanent address is the same as current address

Submit

Cancel

3.2 Update Employee:

Edit Employee Details

Personal Details

Full Name:

Nayana Patil

Date of Birth:

24-10-2004

Gender:

Female

Age:

19

Current Address:

Pati Galli

Shiddheshwar chowk

Islampur

415409

Permanent address is the same as current address

Permanent Address:

Pati Galli

Browser: Edit Employee Details | http://localhost:8080/admin/edit/E9391

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: A12308765

Aadhar Card: 965113448973

Bank Name: Boi

Branch: Islampur

IFSC Code:

Browser: Edit Employee Details | http://localhost:8080/admin/edit/E9391

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

1500

House Rent Allowance:

1000

Total Earnings:

47500.00

Provident Fund:

1200

Professional Tax:

600

Total Deductions:

1800.00

Net Pay:

45700.00

Net Pay In Words:

Forty Five Thousand Seven Hundred

Submit

Cancel

3.3 View Employee Details:

Employee Details for Nayana Patil

Personal Details

Full Name: Nayana Patil
Date of Birth: 2004-10-24
Gender: Female
Personal Email: patilnaina2410@gmail.com
Mobile: 8888379391
Emergency Contact: 8789480405
Current Address: Patil Galli, Shiddheshwar chowk, 415409
Permanent Address: Patil Galli, 12, 415409

Professional Details

Employment Code: E9391
Company Email: nayana.p@gmail.com
Password: 9391
Date of Joining: 2024-04-09
Reporting Manager: Shubham
HR Name: Shubham
Employment History: No

Project Details

Current Project: Electricity billing system
Start Date: 2024-05-01
End Date: 2024-10-01
Project Reporting Manager: Nayana

View Employee

←

→

↺

http://localhost:8080/admin/view/E9391

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☆

Paused

⋮

Project Details

Current Project:

Electricity billing system

Start Date:

2024-05-01

End Date:

2024-10-01

Project Reporting Manager:

Nayana

Finance Details

PAN Card:

A123G8765

Aadhar Card:

965113448973

Bank Name:

Boi

Branch:

Islampur

IFSC Code:

SBIN0005465

CTC Breakup

Date of Payment:

2024-10-01

Basic Salary:

45000

Incentive:

1500

House Rent Allowance:

1000

Total Earnings:

47500.00

Provident Fund:

1200

Professional Tax:

600

Total Deductions:

1800.00

Net Pay:

45700.00

Net Pay In Words:

Fouty Five Thousand Seven Hundred

Back to Admin Dashboard

4. Employee Dashboard:

Employee Dashboard

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http://localhost:8080/employee/dashboard

🔍

☆

Paused

⋮

Welcome, Nayana Patil

Personal Details

Full Name:

Nayana Patil

Date of Birth:

2004-10-24

Gender:

Female

Personal Email:

patilnaina2410@gmail.com

Mobile:

8888379391

Emergency Contact:

8788480405

Current Address:

Patil Galli, Shiddheshwar chowk, 415409

Permanent Address:

Patil Galli, 12, 415409

Professional Details

Employment Code:

E9391

Company Email:

nayana.p@gmail.com

Date of Joining:

2024-04-09

Reporting Manager:

Shubham

HR Name:

Shubham

Employment History:

No

Project Details

Current Project:

Electricity billing system

Start Date:

2024-05-01

End Date:

2024-10-01

Project Reporting Manager:

Nayana

Finance Details

Employee Dashboard

http://localhost:8080/employee/dashboard

Paused

Project Details

Current Project:

Electricity billing system

Start Date:

2024-05-01

End Date:

2024-10-01

Project Reporting Manager:

Nayana

Finance Details

PAN Card:

A123G8765

Aadhar Card:

986113448973

Bank Name:

Boi

Branch:

Islampur

IFSC Code:

SBIN0005465

CTC Breakup

Date of Payment:

2024-10-01

Basic Salary:

45000

Incentive:

1500

House Rent Allowance:

1000

Total Earnings:

47500.00

Provident Fund:

1200

Professional Tax:

600

Total Deductions:

1800.00

Net Pay:

45700.00

Net Pay In Words:

Fouty Five Thousand Seven Hundred

Download Payslip

Logout

4.1 Payslip Generation:

Payslip

http://localhost:8080/employee/payslip

Paused

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

Download

Print

Cancel

4.2 Payslip Print Function:

10/20/24, 1:31 PM

Payslip

Payslip

Patic Galli
Islamabad
415409

Employee Name: Nayana Pali
Employee Code: E3091
Employee Company Email: nayana.pg@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

localhost:8080/employee/payslip 1/1

Print 1 sheet of paper

Destination Microsoft Print to PDF

Pages All

Layout Portrait

Color Color

More settings

Print Cancel

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>