Introduction :

This project is a comprehensive Payroll and Employee/Department Management System designed to streamline administrative tasks in organizations. It enables efficient payroll management, tracks employee records, and manages department details. With user-friendly interfaces for adding, deleting, and viewing data, this system simplifies HR and administrative processes.

Background Study :

- In the contemporary business landscape, managing employee data, attendance, and payroll is crucial for organizations of all sizes. An efficient payroll system ensures accurate compensation for employees while maintaining compliance with labor laws and regulations.

- Traditionally, manual payroll processing was time-consuming and prone to errors. To streamline these processes, organizations have increasingly turned to automated payroll systems. These systems integrate employee information, attendance records, and salary calculations, simplifying the complex task of payroll management.

- The project aims to create a user-friendly automated Payroll System using HTML, CSS, PHP, and MySQL. It enables organizations to efficiently manage their employees, departments, attendance, and payroll. The system provides features for adding and deleting employees and departments, recording attendance, generating payroll, and viewing detailed reports.

- This project's significance lies in its ability to reduce the administrative burden associated with payroll processing, minimize errors, enhance data security, and ensure timely and accurate compensation for employees. It contributes to the optimization of HR and administrative processes, allowing organizations to focus on their core business activities.

Key Features of the Automated Payroll System :

Employee Management : The system allows you to manage employee data, including their names, email addresses, salaries, and departments.

Department Management : You can create and manage departments within the organization. Employees can be associated with specific departments.

Attendance Tracking : The system records attendance data, including dates, employee IDs, and time records for check-in and check-out.

Payroll Management : Payroll records are maintained, including employee IDs, payment dates, and salaries. The system calculates and stores net salaries.

Add and Delete Employees : You can add new employees to the system and remove employees when necessary.

Add and Delete Departments : Departments can be added or removed as the organization's structure changes.

Add and Delete Attendance Records : Attendance records can be added for employees who check in and deleted when necessary.

Generate Payroll : The system can calculate and generate payroll records based on attendance and salary data.

View Employee Details : You can view a list of employees and their details, including department affiliation.

View Department Details : The system displays a list of departments and their respective details.

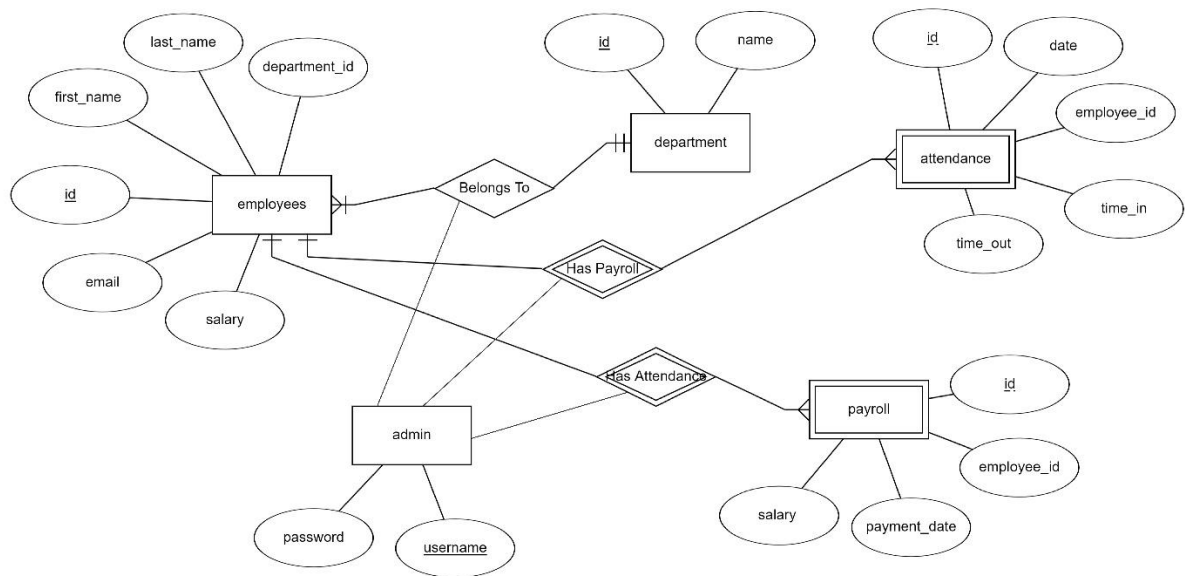**View Payroll Details :** Payroll records are displayed, showing employee names, payment dates, and salaries.

User-Friendly Interface : The user interface is designed to be intuitive, making it easy to manage employee data, attendance, and payroll.

Database Integration : The system stores data in a MySQL database, ensuring data integrity and security.

Data Validation : Input forms are equipped with validation to prevent incorrect or incomplete data entry.
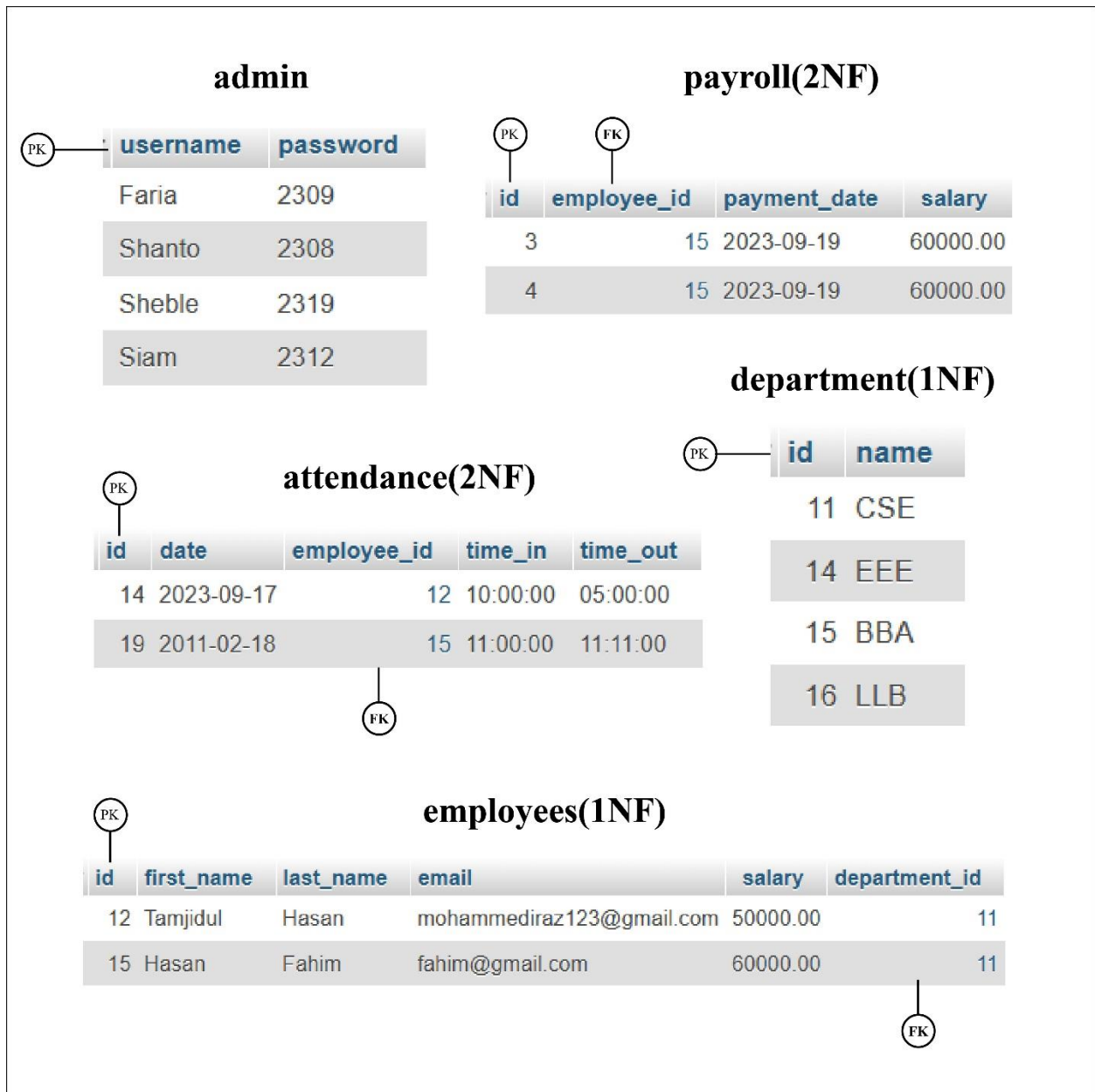
Error Handling : The system provides error messages and feedback to users when issues or incorrect inputs arise.
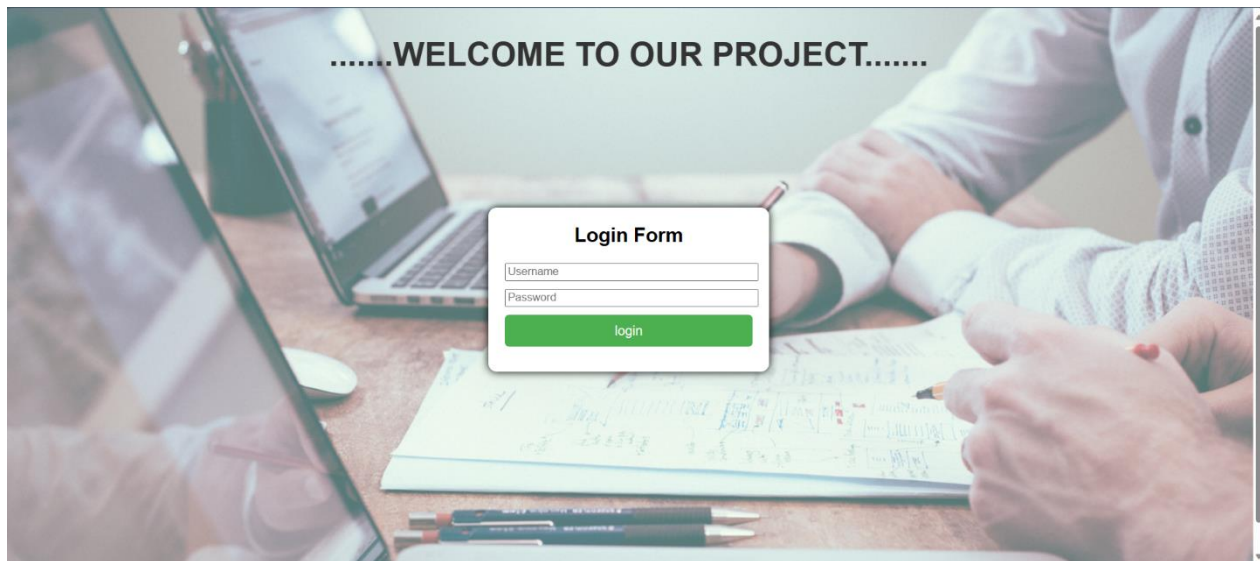
# Database design and Diagram :

ER-Diagram

Normalization :

admin

username	password
Faria	2309
Shanto	2308
Sheble	2319
Siam	2312

payroll(2NF)

id	employee_id	payment_date	salary
3	15	2023-09-19	60000.00
4	15	2023-09-19	60000.00

department(1NF)

id	name
11	CSE
14	EEE
15	BBA
16	LLB

attendance(2NF)

id	date	employee_id	time_in	time_out
14	2023-09-17	12	10:00:00	05:00:00
19	2011-02-18	15	11:00:00	11:11:00

employees(1NF)

id	first_name	last_name	email	salary	department_id
12	Tamjidul	Hasan	mohammediraz123@gmail.com	50000.00	11
15	Hasan	Fahim	fahim@gmail.com	60000.00	11

Implementation :

Fig-1

This figure shows our admin login page, only admin can login through this login page.
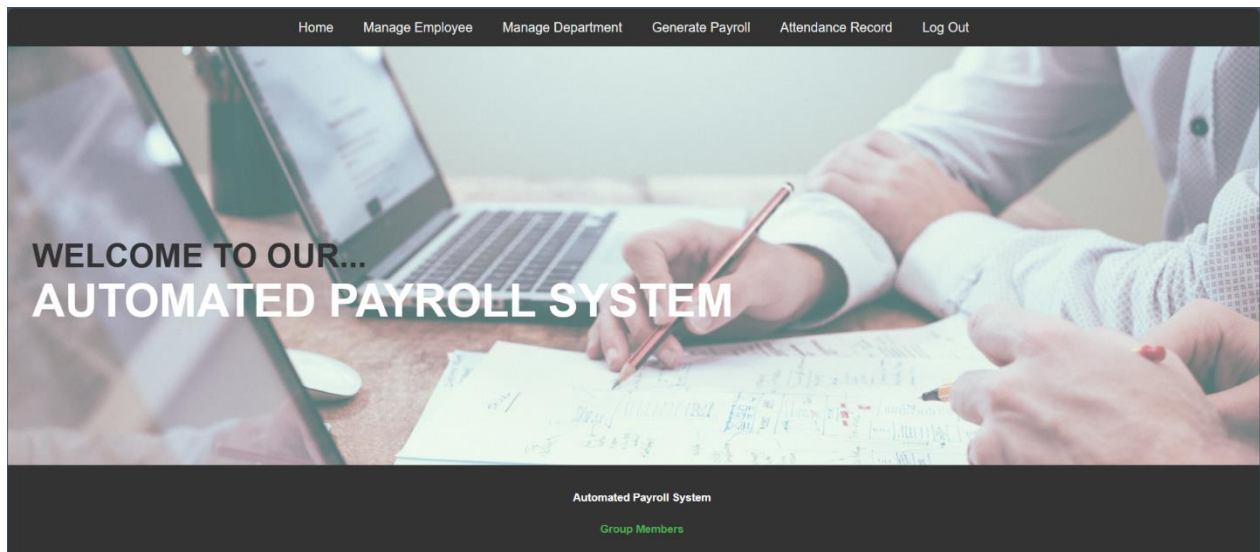
Fig-2

This figure is the figure of home page after login admin will come to this homepage.

Fig-3

This figure shows employment management. Employee details, adding new employees, deleting employees are shown.

Fig-4

Department management is shown in this figure. Details of department, adding new department, deleting department are shown.

Fig-5

In this figure shown payroll records are maintained, including employee IDs, payment dates, and salaries. The system calculates and stores net salaries.

Fig-6

In this figure shown, the system records attendance data, including dates, employee IDs, and time records for check-in and check-out.

Fig-7

In this figure shown, the ID's and Names of our group member.

Limitation and future works :

Limitation :

Basic Functionality: The current system offers fundamental features for employee management, attendance tracking, and payroll generation. It lacks more advanced HR functionalities like leave management, tax calculations, and reporting.

User Roles and Permissions: The system currently lacks a role-based access control system. Implementing user roles and permissions can enhance security and restrict access to sensitive information.

Scalability: While suitable for small to medium-sized organizations, the system may face scalability issues when handling a large number of employees or complex payroll structures.

Data Validation: Although basic data validation is in place, additional validation measures can be implemented to improve data integrity and prevent erroneous inputs.

Reporting: The system lacks comprehensive reporting capabilities. Incorporating advanced reporting features would enable organizations to gain deeper insights into payroll data.

Future Works:

Enhanced Reporting : Implement advanced reporting and analytics features to provide insights into payroll trends, employee performance, and financial analysis.

Leave Management : Integrate leave management functionalities, allowing employees to request and manage their leave, and supervisors to approve or deny requests.

Tax Calculations : Incorporate tax calculation capabilities to automatically calculate and deduct taxes from employee salaries, ensuring compliance with tax regulations.

Mobile Accessibility : Develop a mobile-friendly version or dedicated mobile app to provide accessibility to the system on various devices.

Integration : Explore integration options with other HR and accounting software to streamline data flow and eliminate redundancy.

Data Backup and Recovery : Implement regular data backup and recovery mechanisms to safeguard against data loss or system failures.

Enhanced Security : Strengthen security measures with encryption, user authentication, and audit logs to protect sensitive employee and financial data.

User Training and Support : Offer comprehensive training materials and support for users to maximize the system's benefits.

Customization : Allow organizations to customize the system to their specific payroll and HR requirements.

Compliance Updates: Regularly update the system to align with changes in labor laws, tax regulations, and compliance standards.

Conclusion :

In conclusion, this project successfully delivers an automated Payroll System that simplifies employee management, attendance tracking, and payroll processing. With room for future enhancements, it streamlines HR processes and ensures accurate compensation, benefiting organizations of all sizes.

References :

- **Web link:** https://www.w3schools.com/sql/default.asp