



NORTH SOUTH UNIVERSITY

Department of Electrical and Computer Engineering

Project Report

CSE311
Section:3
Group-4

Members

1. Name: Salman Khan
ID: 1921530042
2. Name: Md. Shahariar Alam Sifat
ID: 1922185042
3. Name: Md. Samiullah Shekh
ID: 2011417042

Faculty and Instructor

Mr. Intisar Tahmid Naheen

Fahimul Hoque

Project Title: Cable Network Selfcare Portal

Introduction: This is a web-based application which can be used to operate a whole business. This program will be developed with HTML, CSS for the front end. And for the back end we will use PHP. MySQL will be used as the language for database. This software contains an environment which can help a analog business to digital. This application will contain a portal for Admin, Employee, and Clint. User will be able to login and there will be three section as Admin, Clint, Employee. The admin will be able to control everything from their end. And admin can check their total expense and income detail. Admin can access clint and employee list. Only Admin can create a new account. Admin can give salary from his account and employee can receive it from their end. Clint can check their payment details. And also, they can update their own profile. The clint can file complaint which is a complaint system. The complaint record will be shown in Admin panel. Where the admin can choose to assign the employee to the respective issue.

Background Research and Motivations: This project is based on a cable network business which is operated analog. We wanted to develop a database system to maintain the business digitally. We have research how a cable network business operates and we used our skills to complete the project.

Resources and Technologies:

The project's front end was developed by HTML and CSS. For the backend language we have used PHP. And MySQL was used as the query language.

Project Design:

For Admin user, an Admin can add new employee to the company. If a new client user wishes to get a connection admin have to add them manually. List of all employee can be displayed here. Admin can display the list of all the employee and client. Admin can Block and remove and re-activating a user. And Admin can check the requested complaints and assign a employee according to the complaint category. Admin can display the total income and expense of the company. Admin also pays salary to the employees. Admin can approve a leave day for a employee.

For Employee user, their profile and basic information is displayed at the home page. Employee can only change their own password and they request for leave day if he or she wants. For the complain list employee can see the problem and solve this issue. Employee can check the data when they received the salary date.

For Client user, their profile and basic information is displayed at the home page. Client can change only their password. A client can pay their monthly bill and check the payment record through the payment portal. Client can complain if he or she faces any type of problem and they check their complain history.

Features:

Admin:

- 1. Add Employee:** Admin can add new employee to the company
- 2. Add Clint:** If a new user wishes to get a connection admin have to add them manually.
- 3. Employee List:** List of all employee can be displayed here.
- 4. Clint List:** List of the clint are displayed here.
- 5. Block or Reactive Clint:** Blocking and removing and re-activating a user can be done from the clint list page.
- 6. Check Complaint:** Admin can check the requested complaints.
- 7. Assign Employee to Complaint:** Admin will assign a employee to a complaint.
- 8. Total Income:** The monthly income of the company can be shown here.
- 9. Total Expense:** The expense of the company in a month can be shown here.
- 10. Employee Salary:** A decided amount to be given to each employee.
- 11. Grant Leave Day:** The Admin can respond if a employee want a leave day.

Employee:

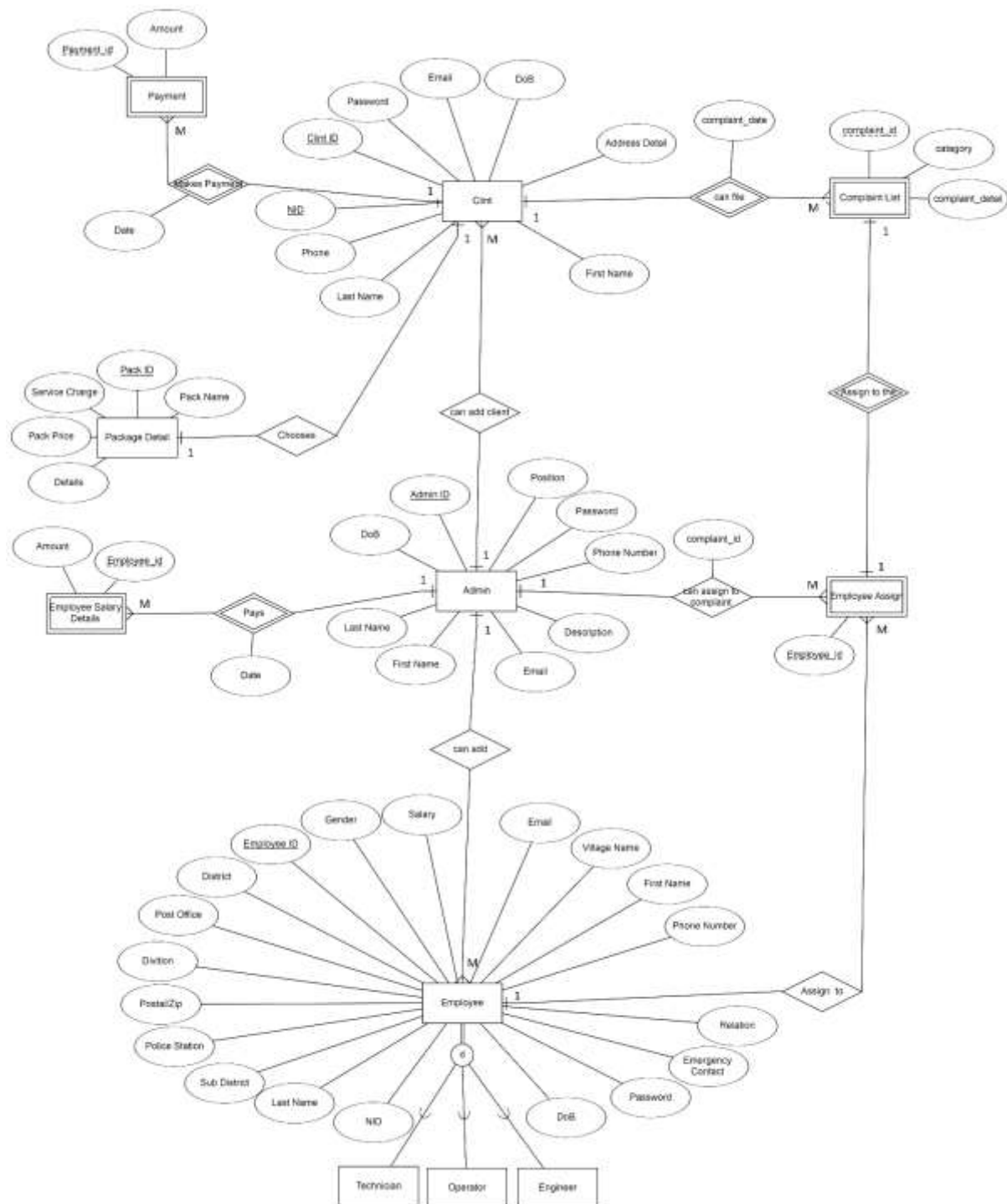
- 1. Profile:** The profile and basic info of a employee can be shown here.
- 2. Change Password:** Employee can change their own password

3. **Request Leave Day:** Request a leave day if the employee want.
4. **Complaint List:** The assigned complaint to the employee to resolve.
5. **Salary Receive Date:** The day the employee receives the salary is recorded here.

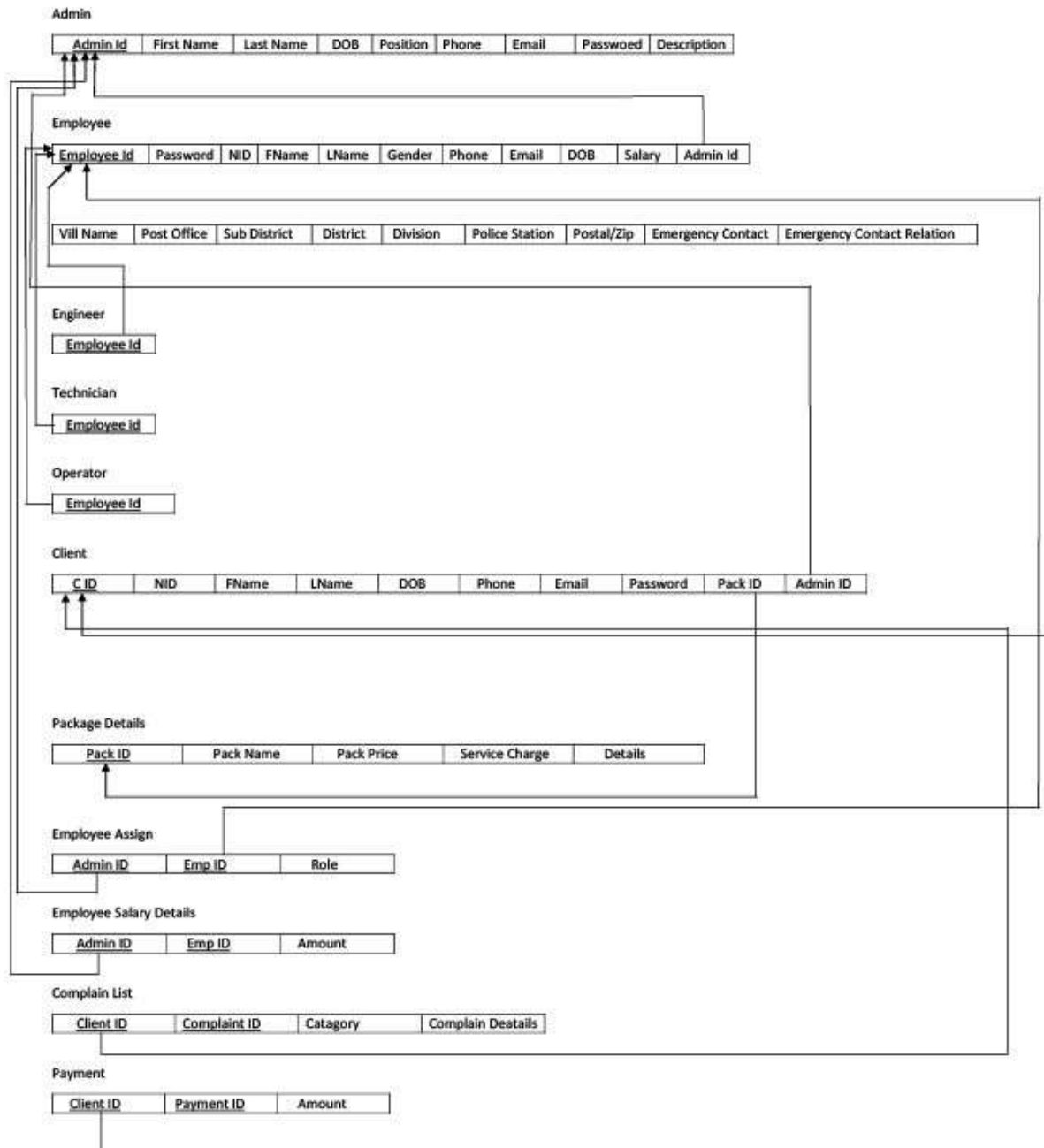
Clint:

1. **Profile:** The basic profile info is displayed here.
2. **Change Password:** The clint can change the default password from here.
3. **Payment:** The clint can pay the amount through this portal.
4. **Payment History:** The record of past payment history with references.
5. **File Complaint:** If there any issue clint can file a complaint.
6. **Complaint History:** Past complaint history.

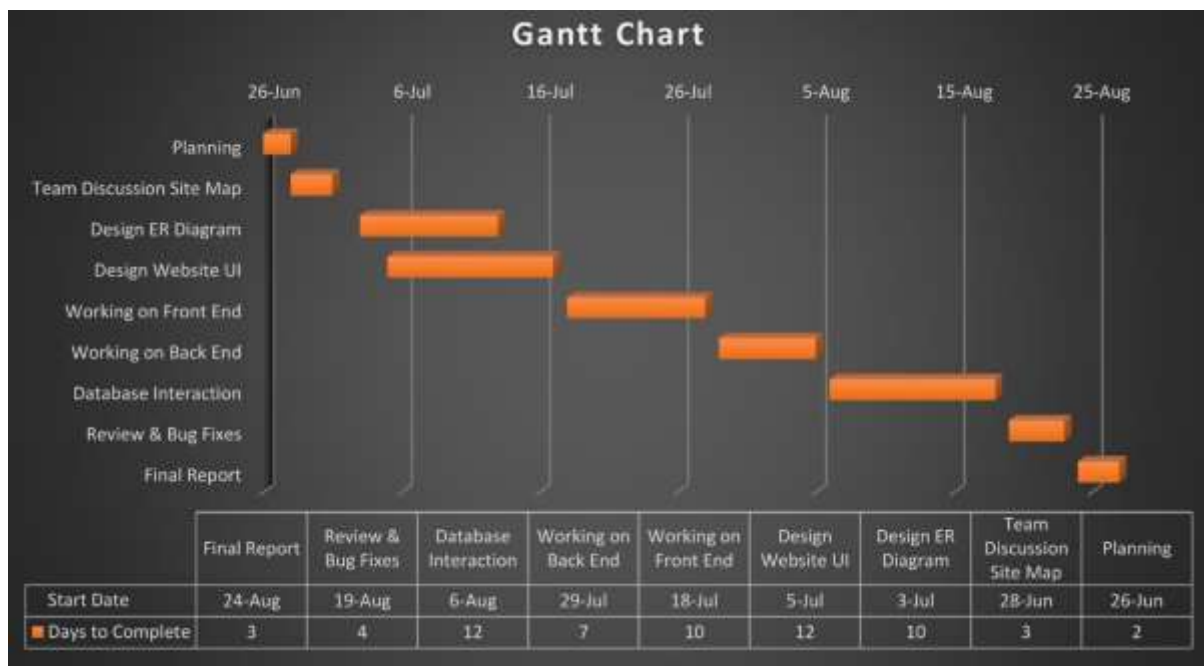
ER Diagram:



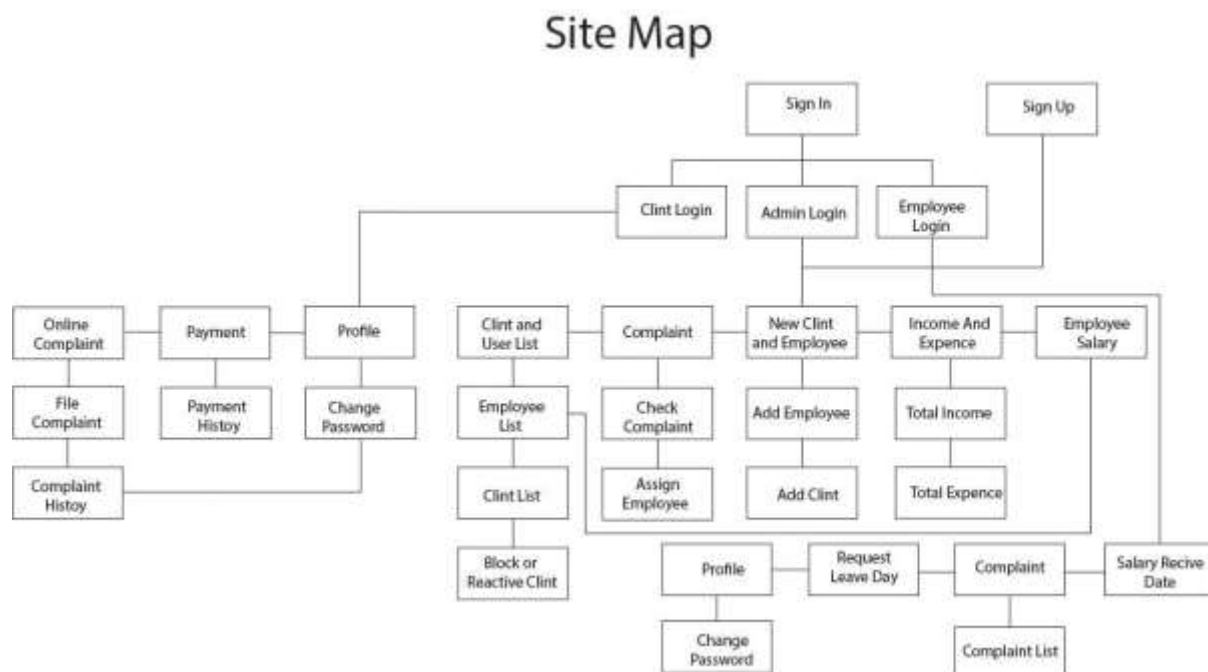
Relational Model:



Work Flow:



Site Map:



Snapshots:

Admin:

The screenshot shows a web browser window with the URL `localhost:5173/index.html`. The page has a teal header with the text "admin" and navigation links: "profile", "add employee", "add client", and "log out". The main content area is titled "add employee information" and contains a form titled "employee personal info" with the instruction "Please fill in this form to create an account." The form has four input fields: "First Name" (placeholder: "Enter First Name"), "Last Name" (placeholder: "Enter Last Name"), "Birth Date" (placeholder: "mm/dd/yyyy" with a calendar icon), and "Employee ID". The Windows taskbar at the bottom shows the time as 1:27 PM on 8/30/2024.

Add Employee Page

The screenshot shows a web browser window with the URL `localhost:5173/index.html`. The page has a teal header with the text "admin" and navigation links: "profile", "add employee", "add client", and "log out". The main content area is titled "add client information" and contains a form titled "client personal info" with the instruction "Please fill in this form to create an account." The form has four input fields: "First Name" (placeholder: "Enter First Name"), "Last Name" (placeholder: "Enter Last Name"), "Birth Date" (placeholder: "mm/dd/yyyy" with a calendar icon), and "Client ID". The Windows taskbar at the bottom shows the time as 1:31 PM on 8/30/2024.

Add Client Page

Employee ID	Name	Role	Salary	Phone Number
04001	Hemant	Technician	90000	942090203
04002	Haseem	Operator	70000	952076388
04003	Bilal	Engineer	60000	933029545
04004	Sadman	Operator	50000	952098960

Employee List Page

Client ID	Name	Phone Number	Email	Address	Package
01001	Mido	0788028	mido@gmail.com	Aid	Pack1
01002	Osama	0788029	osama@gmail.com	Aid	Pack1
01003	Ali	0788030	ali@gmail.com	Aid	Pack2

Client List Page

Complaint ID	Qst ID	Complaint Category	Complaint Detail	Complaint Date	Solve Status
1	Q102	No Connection	No connection for 1 hour	2022-08-05	No
2	Q103	Fiber Cut	Fiber Cut	2022-08-05	No
3	Q104	Cable	Cable Severe	2022-08-05	No
4	Q105	No Connection	No Connection	2022-08-05	No
7	Q106	Cable	No Line	2022-08-05	No
8	Q107	Cable	No Line	2022-08-05	No

Check Complaint Page

assign employee

Employee ID
Enter Employee ID

Complaint ID
Enter Complaint ID

Cancel Assign

Assign Employee Page

Month	Date	Amount
1	10/01	1000
2	10/02	1000
3	10/03	1000
4	10/04	1000
5	10/05	1000

total income: 2418.00 taka

Month	Employee ID	Amount
1	0001	1000.0
2	0002	1000.0
3	0003	1000.0
4	0004	1000.0
5	0005	1000.0

total expense: 17996.99 taka

total income and expense: -15588.99 taka (loss)

Income and Expece Page

make your payment

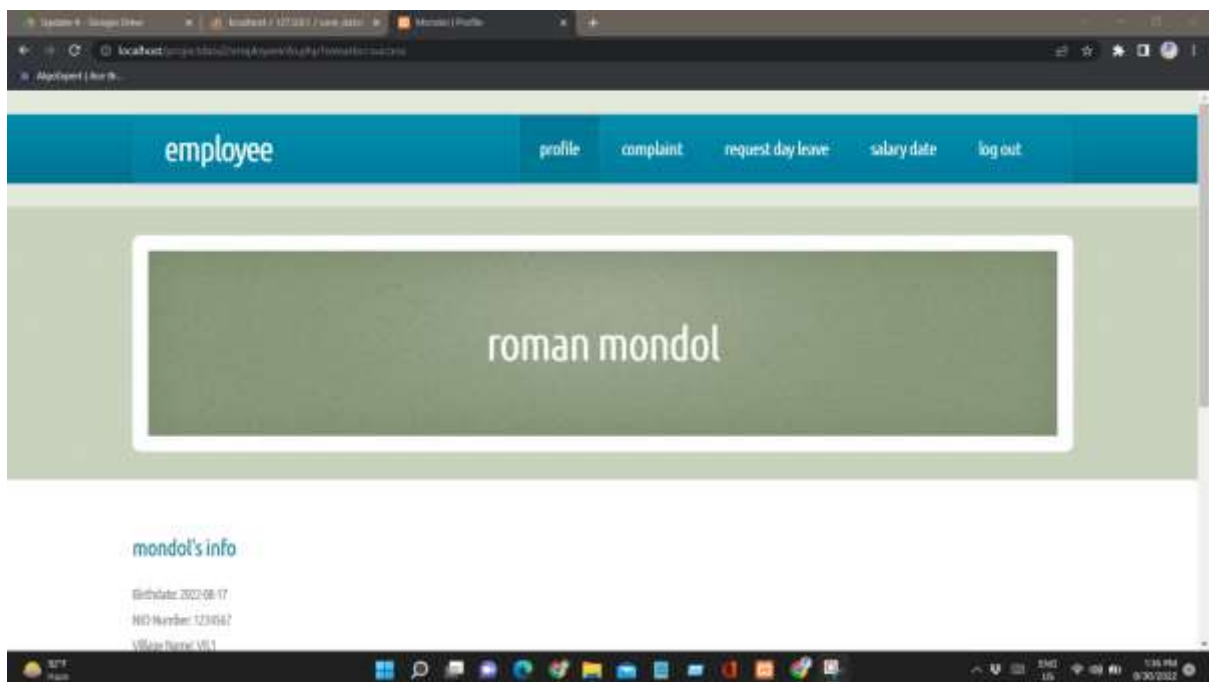
Employee ID
Enter Employee ID

Payment Method
Choose Payment Method

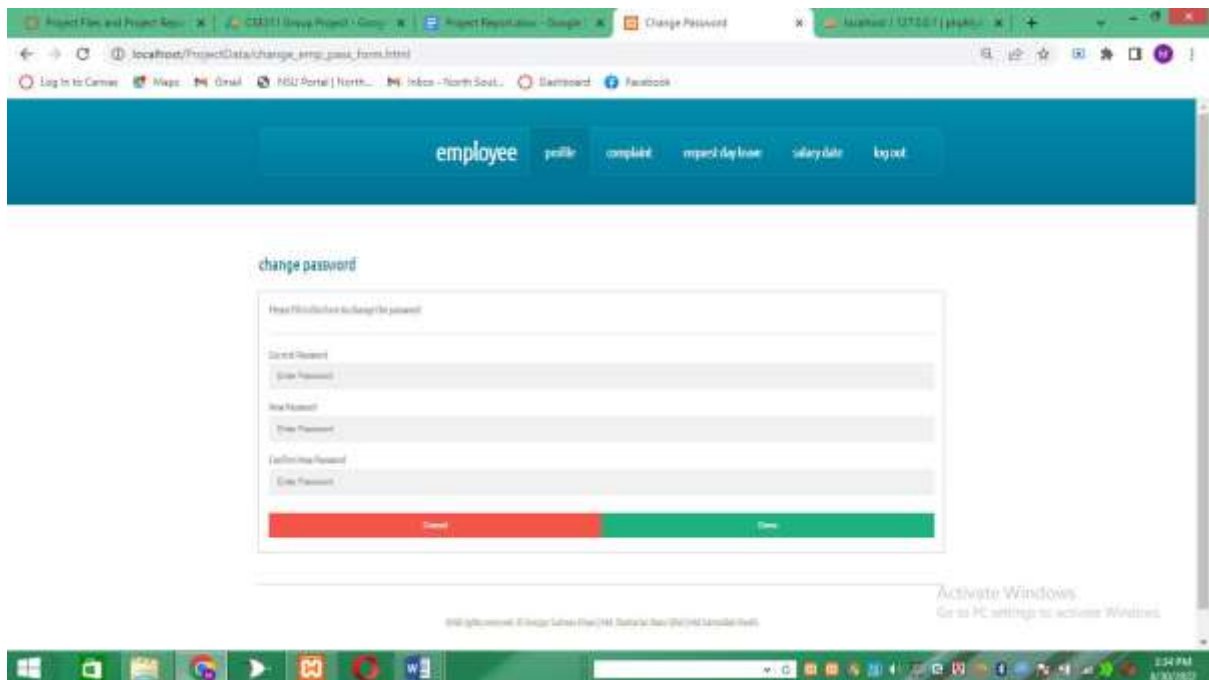
Cancel Pay

Employee Salary Page

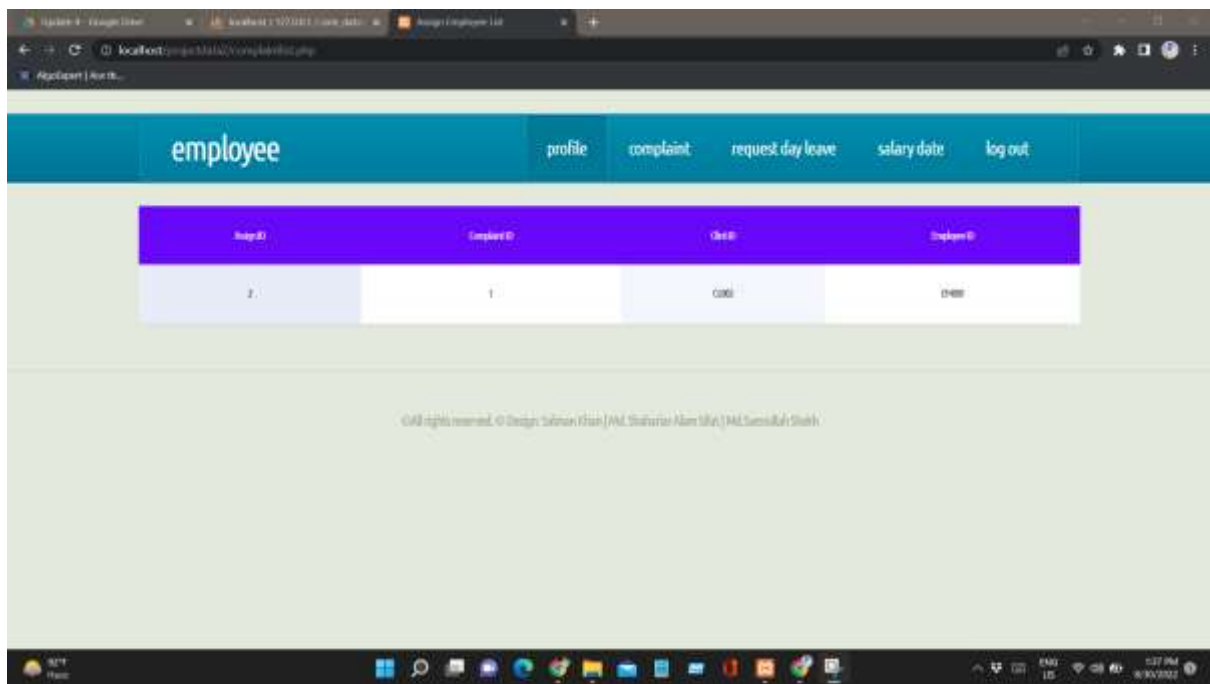
Employee:



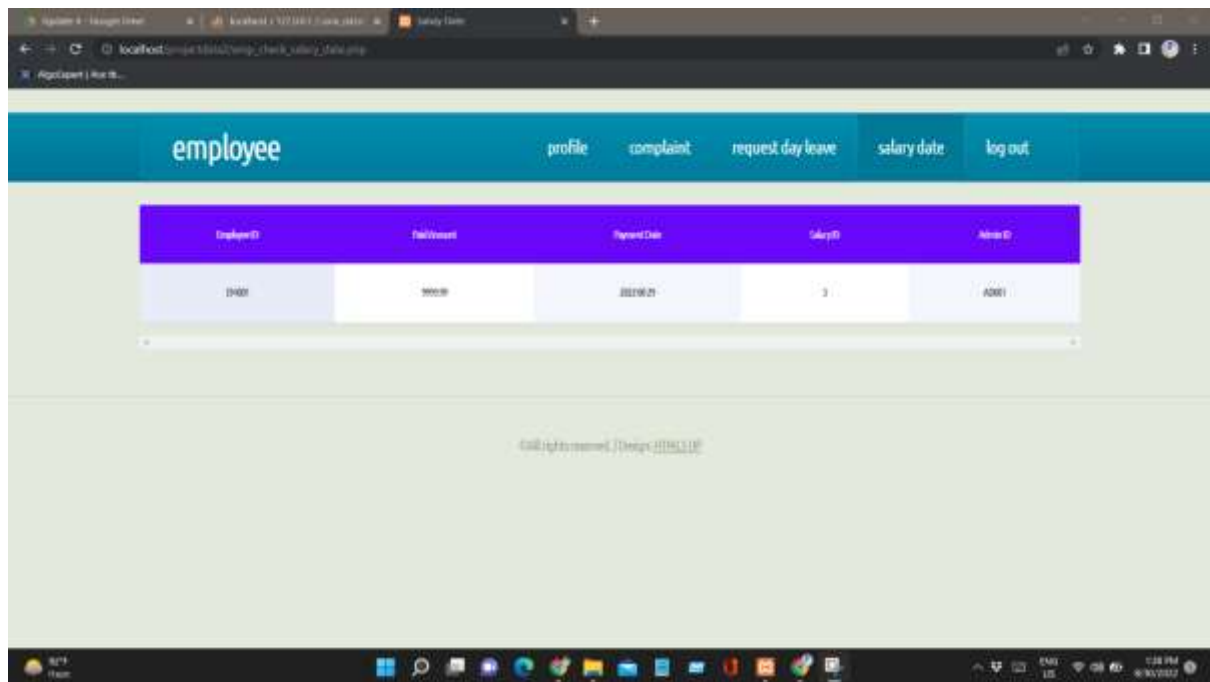
Employee Profile Page



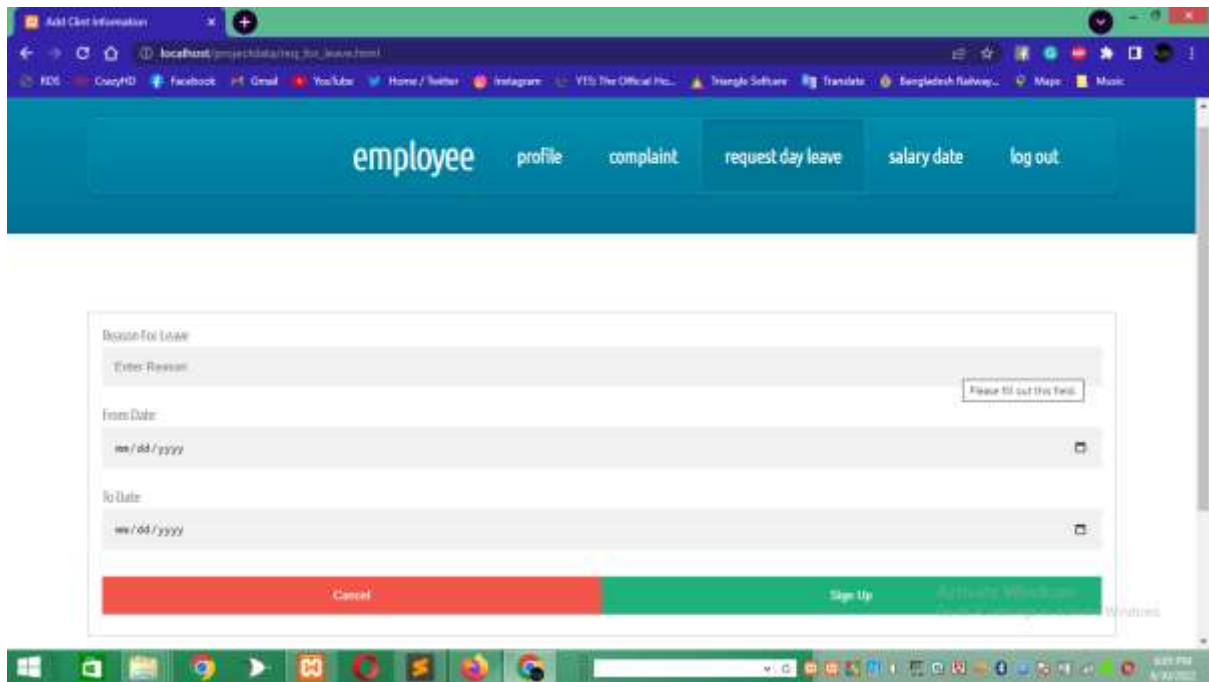
Change Password Page



Complaint List Page

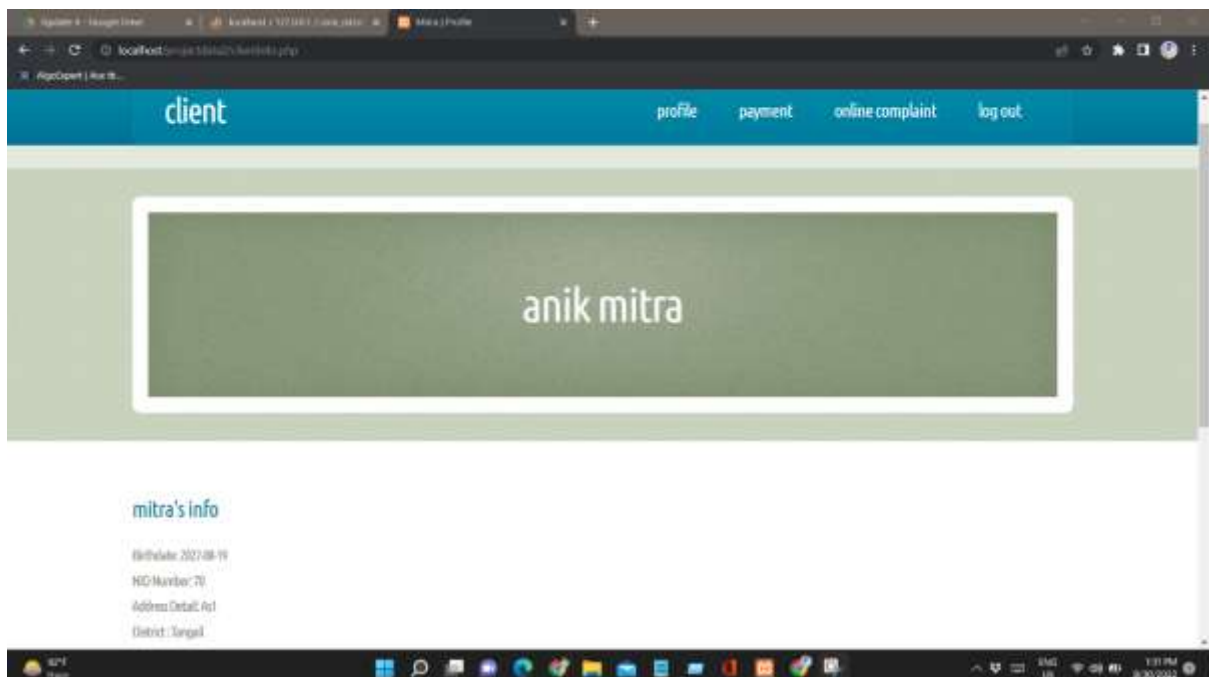


Salary Recive Date Page

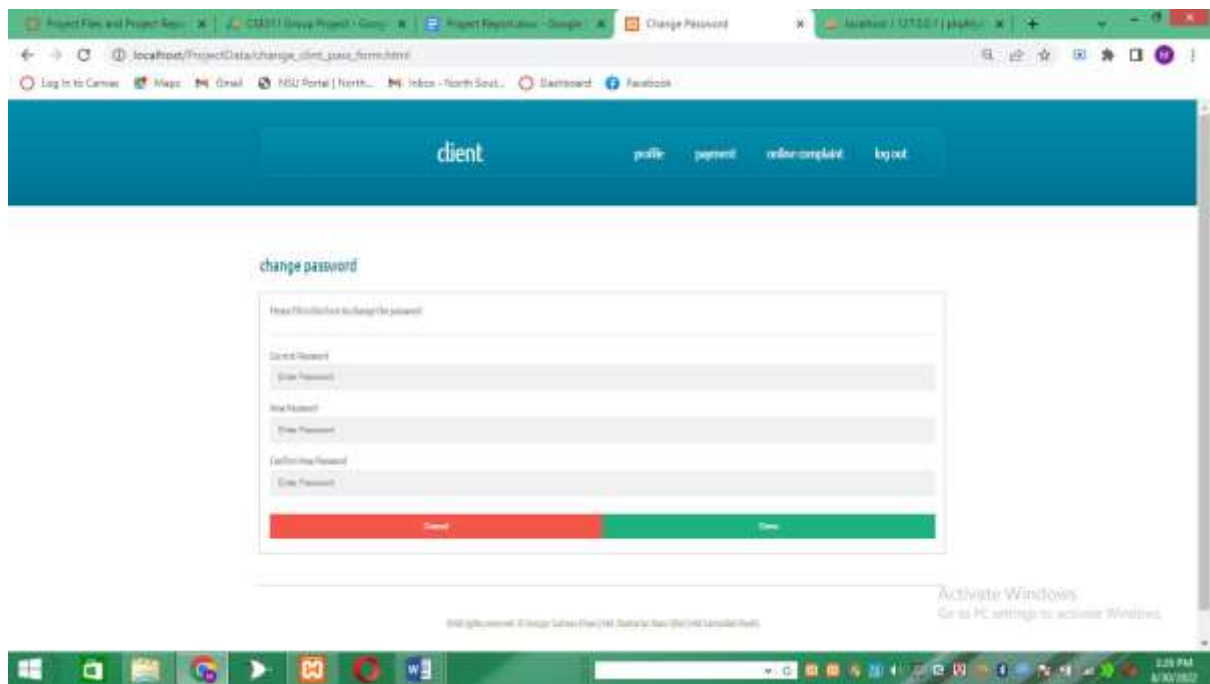


Request Leave Day

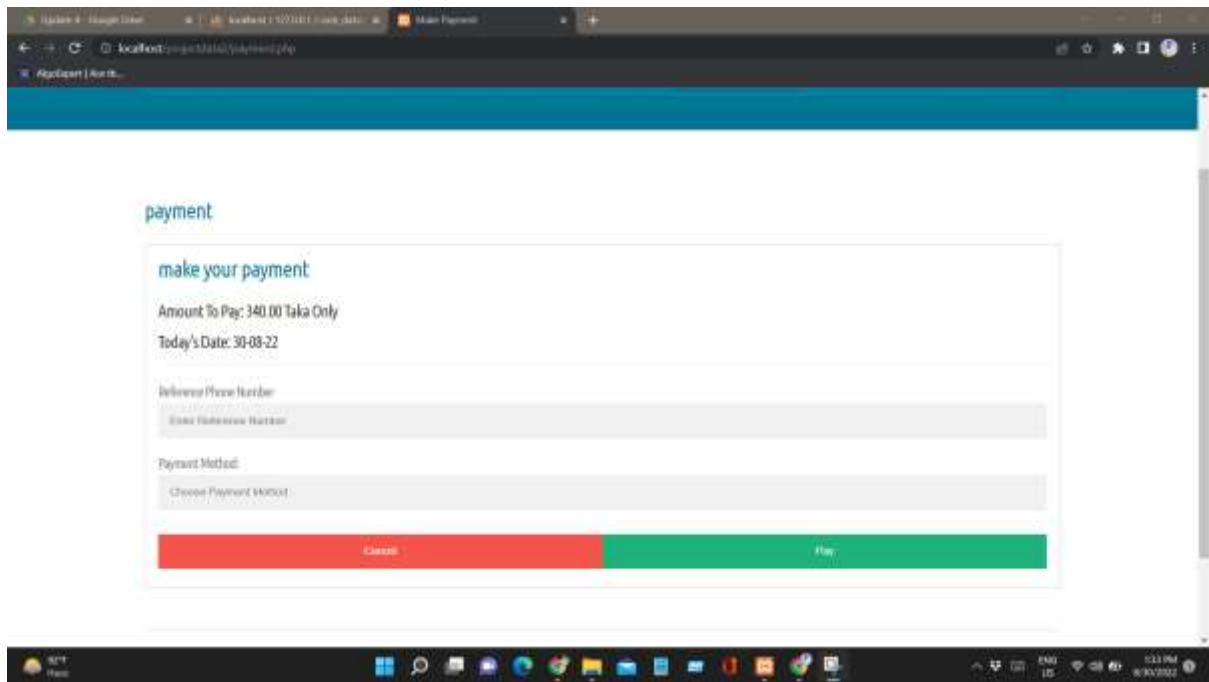
Client:



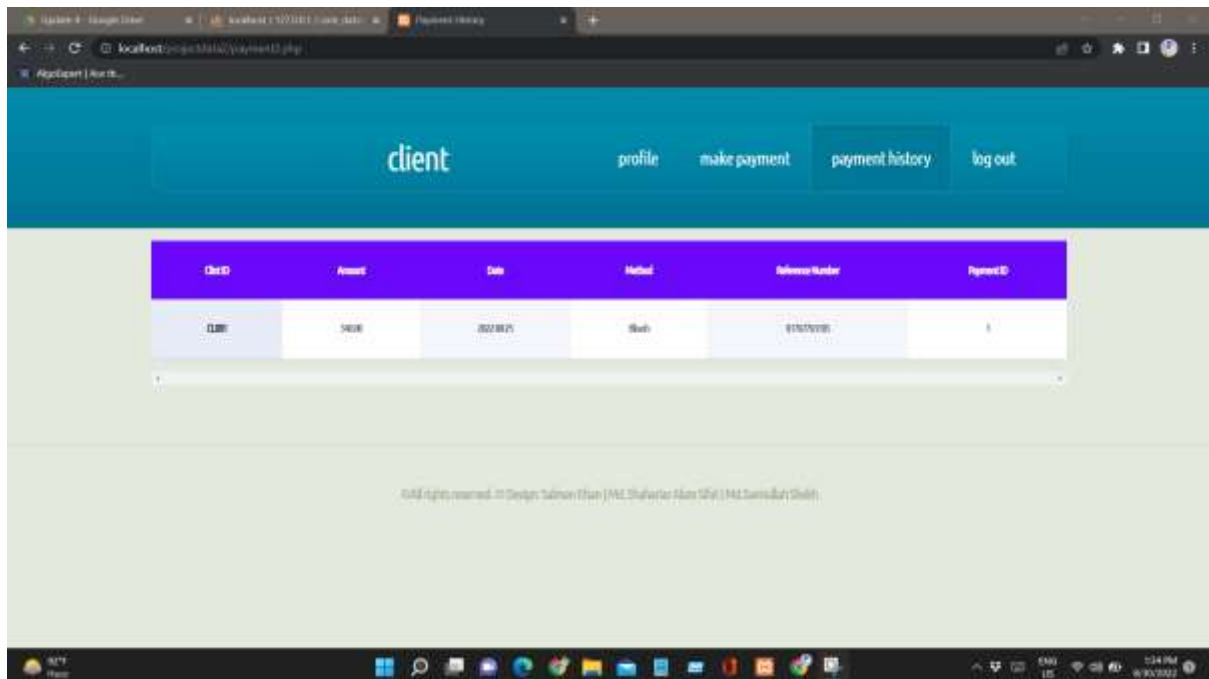
Client Profile Page



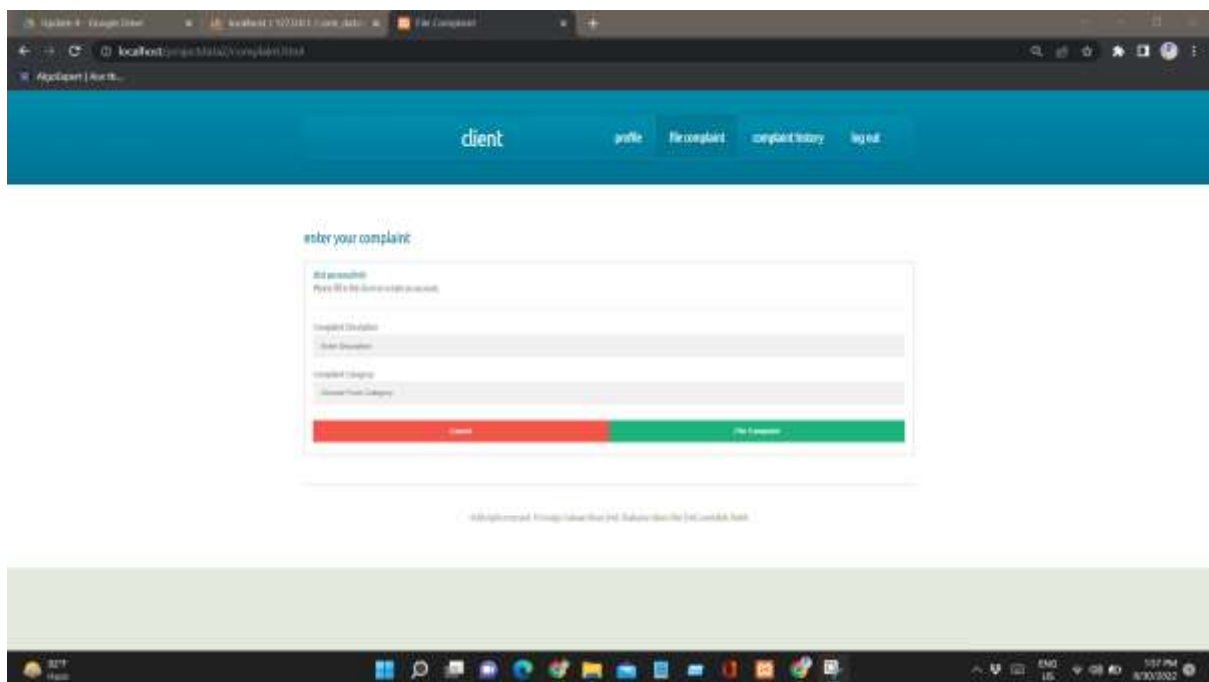
Client Change Password Page



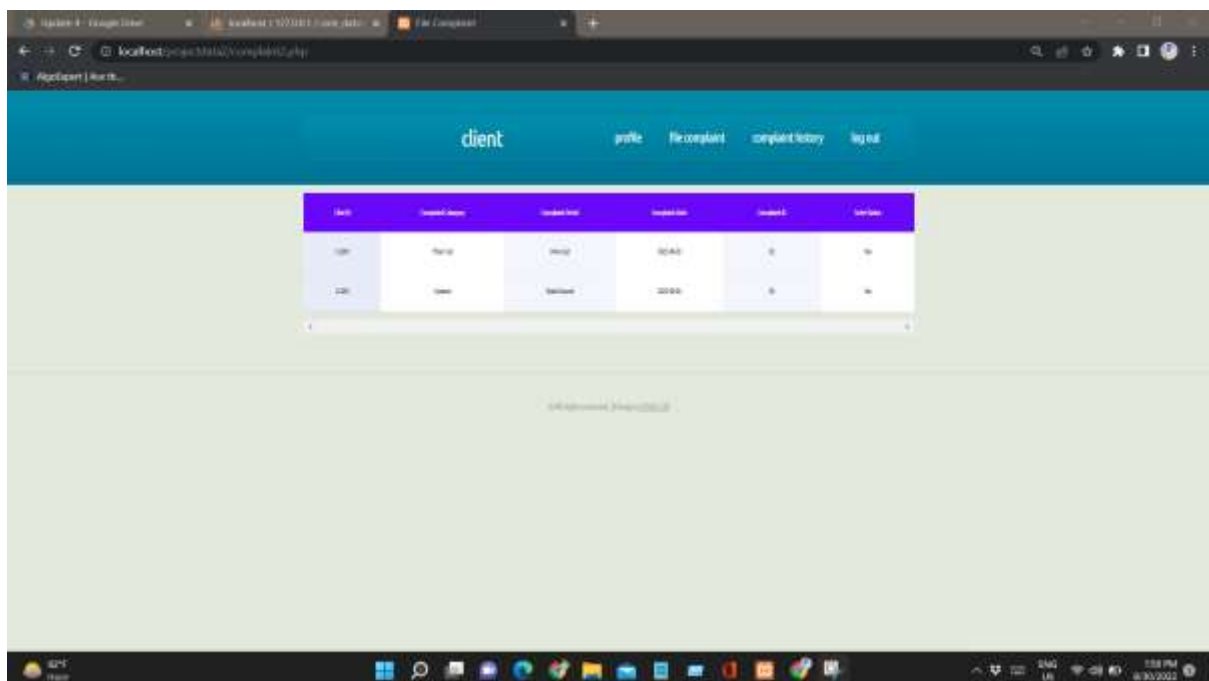
Client Payment Page



Client Payment History Page



Client Complaint File Page



Client Complain Hisoty Page

Conclusion & Future work:

We have completed most of the project features. We have used our database course skills to complete the project. We have learned many new things from our research about PHP and MySQL. Also we have learned many new things about HTML and CSS. This project was very significant for us. We have used a lot of time and resources in this project. We have researched many new aspects of web development because of this project.

Few of the features of this project are incomplete due to the lack of time. Which includes the feature block and reactivation of a client and granting a leave day permission for an employee from admin. In the future we wish to update the webpage into more dynamic. And complete the unfinished feature. Also, we are looking forward to reducing redundancy from the ER diagram and the relational model through Normalization.

Contribution Table:

Name	Role
Salman Khan	Backend & Frontend
Md. Shahariar Alam Sifat	Frontend & Backend
Md. Samiullah Shekh	Frontend

Git-Hub Link: https://github.com/hrsalman0/Group_Project_CSE311_3.git