



CSE370 : Database Systems
Project Report
Project Title : Project Title Here

Group No : 4, CSE370 Lab Section : 3, Spring 2024		
ID	Name	Contribution
22101137	Tanjila Fariha	Homepage, Owner Sign Up, Resident Login, Creating Maintenance Request, Update Rent, Add Flat, Remove Flat, show flats for sell/rent, add flats for sell/rent, Remove Flat from sell/rent, dbconnect, logout, EER, Schema Diagram, Normalization.
22141004	Nouruzzaman Niloy	Staff home, staff sign up, staff login, make a new maintenance request, my requests(resident) Check requests, Accepted Requests(Staff)

22141013	MD. Atiq Mahbub	Tenant homepage, Tenant Sign Up, Creating Pay rent of tenant, Leaving option for tenant, resident notification, Full Sql database, ER, Schema Diagram,
----------	-----------------	--

Table of Contents

Section No	Content	Page No
1	Introduction	3
2	Project Features	4
3	ER/EER Diagram	5
4	Schema Diagram	6
5	Frontend Development	7
6	Backend Development	26
7	Source Code Repository	45

8	Conclusion	45
9	References	46

Introduction

“Society Management System” database website serves as an efficient and organized tool to do basic operations for managing a society in an orderly manner. It helps the society residents and staffs

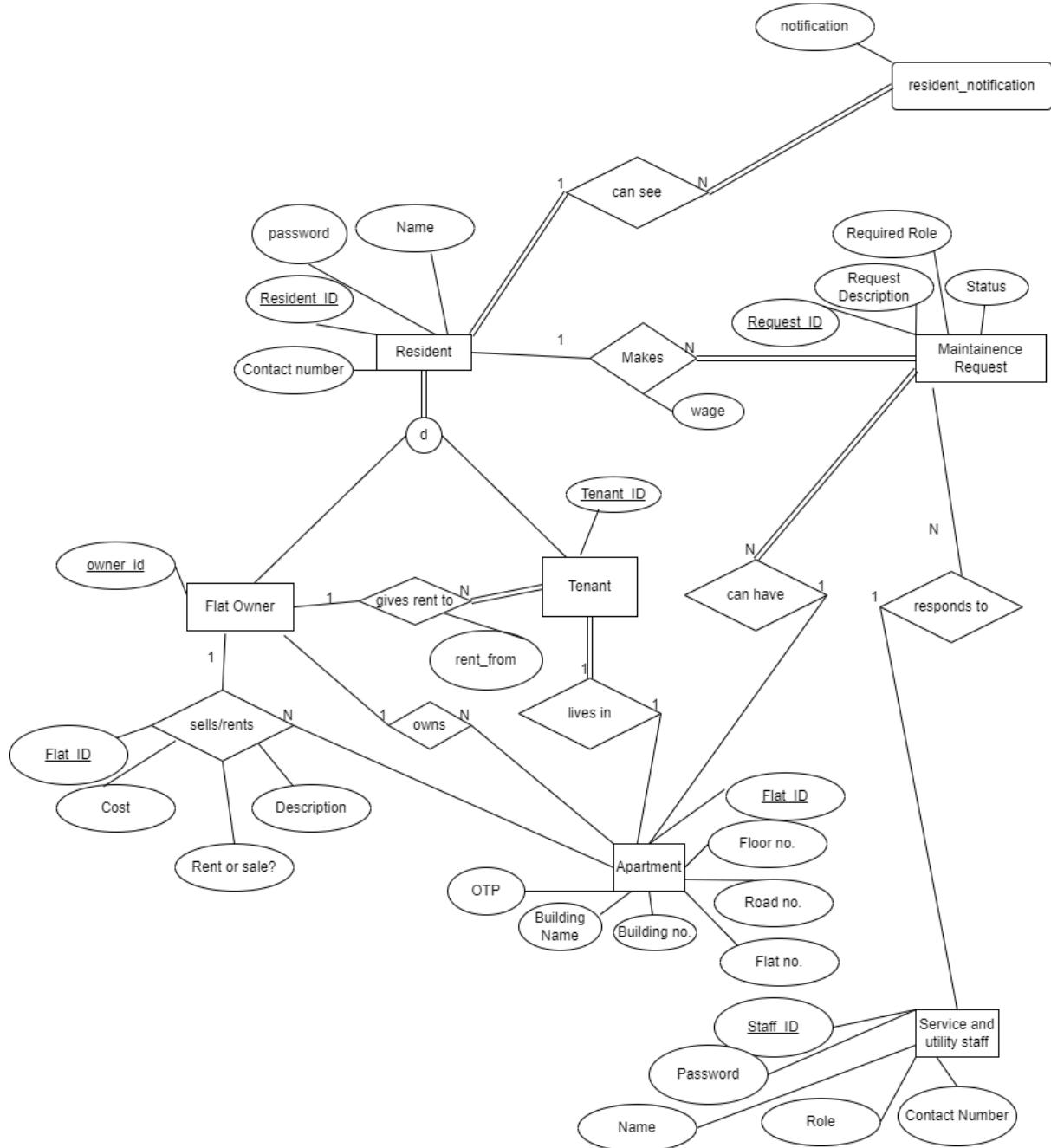
to handle the necessary activities with ease. Here we used html, php and mysql to create an interacting society management system.

Table	Action	Rows	Type	Collation	Size	Overhead
apartment_a1	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	32.0 KiB	-
apartment_a2	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
apartment_a3	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
flat_owner	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	32.0 KiB	-
maintainence_request	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	64.0 KiB	-
owns	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	48.0 KiB	-
resident	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
resident_notification	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
sellsorrents	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	48.0 KiB	-
service_and_utility_staff	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
tenant	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	64.0 KiB	-
11 tables	Sum	38	InnoDB	utf8mb4_general_ci	368.0 KiB	0 B

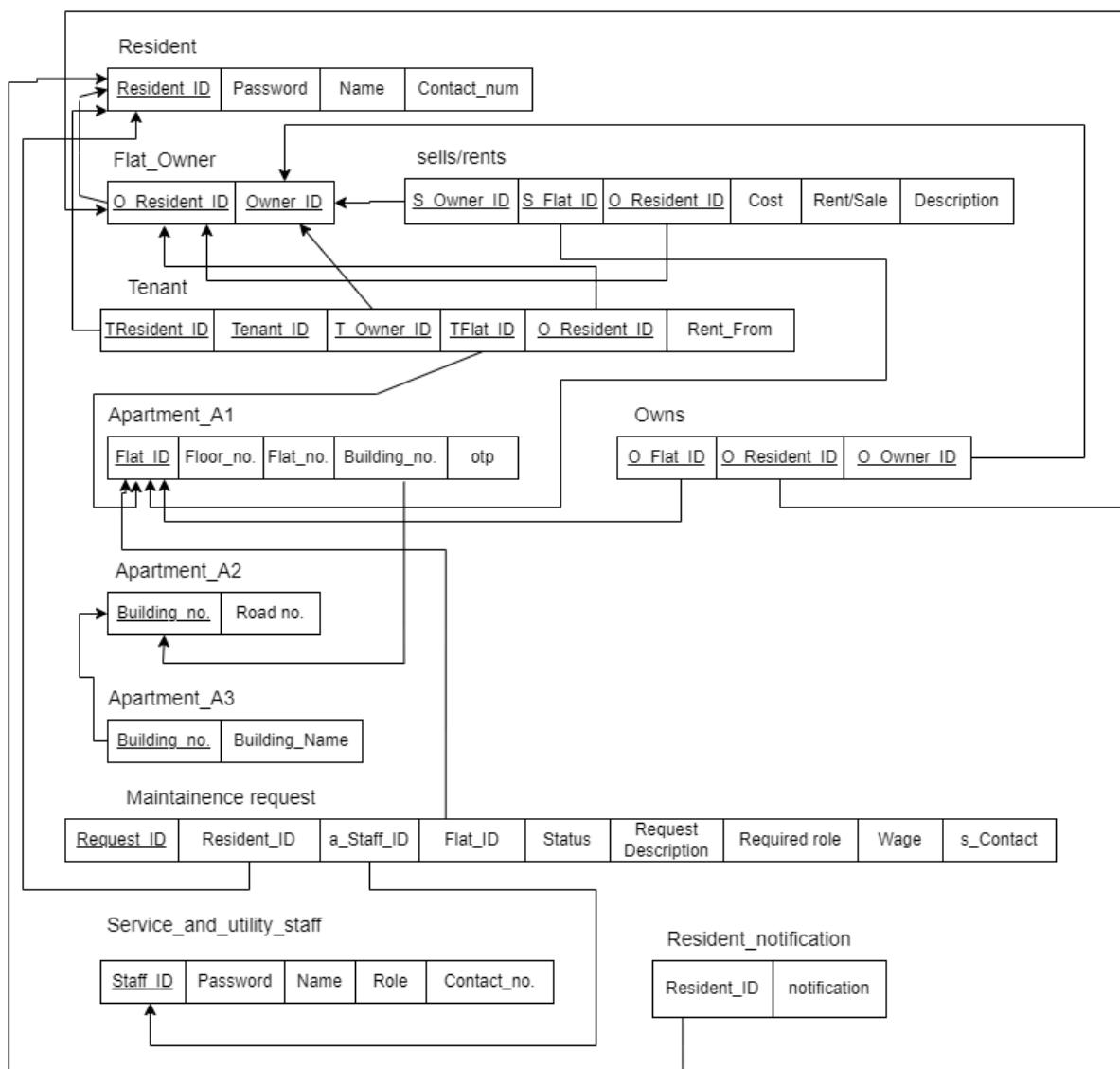
Project Features

1. A person visiting the website can see available flats for sale or rent inside the society.
2. Residents can make maintenance requests.
3. If a Flat Owner buys a Flat, he can add that flat on his name. And if he sells a flat, he can remove the flat from his name.
4. Flat Owners can update the rent of the Flats which they had rented.
5. After selling or renting a flat, flat owner can remove the flats from ‘available list of flats for sell/rent’
6. Flat Owner can add his own flat to “flat available for rent/sell” if he intends to sell/rent his flat.
7. Tenant can pay rent, tenant need to input the month and the owner will get the notification that which tatenet from which flat paid the rent for which month.
8. Tenants can make maintenance requests if any of the utility stuff of the house gets broken or has an issue.
9. Tenant can also check the requests which are still pending and by clicking the completed button the tenant can remove the maintenance request.
10. A resident can also check the notification. Tenant will get notification if the owner has decided to increase the rent and also if any staffs accept the requests then the person will also get the notification.
11. A resident can clear all the notifications.
12. Tenants can leave if the person decides to leave the flat which will delete the profile.
13. From a separate page available for staff, users can sign up as a new staff or Login
14. From the staff home page>Check requests- staff can check and accept maintenance requests available that haven't been accepted for his corresponding role.
15. Staff can visit the requests they accepted from Accepted requests.
16. Residents(tenant/owner) can check the status of their maintenance requests(Both pending/accepted). If accepted, they can click complete when that request has been completed to remove that request.

EER Diagram



Schema Diagram

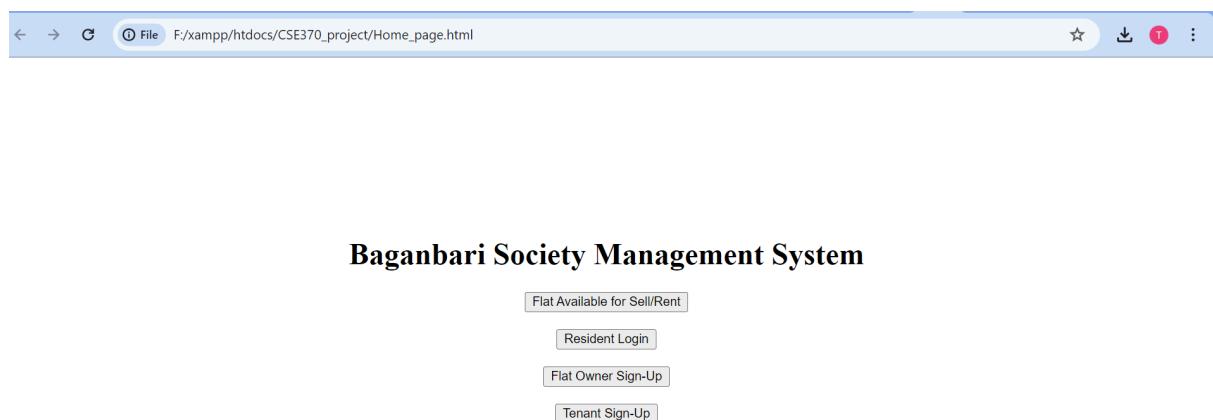


Frontend Development

Briefly discuss about Frontend Development and add Screenshots by mentioning Individual Contributions

Contribution of ID : 22101137, Name : Tanjila Fariha

#Home Page: Anyone visiting the website will see this front page at the beginning.

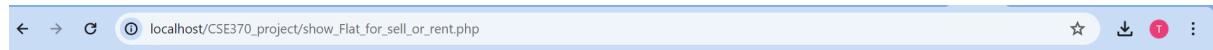


Code:

A screenshot of a code editor window showing the HTML code for the Home Page. The code is as follows:

```
1 <html>
2   <body>
3     <table width="100%" height="100%">
4       <tr>
5         <td align="center" valign="middle">
6           <h1>Baganbari Society Management System</h1>
7           <button onclick="window.location.href= 'http://localhost/CSE370_project/show_Flat_for_sell_or_rent.php'">Flat Available for Sell/Rent</button><br><br>
8           <button onclick="window.location.href= 'http://localhost/CSE370_project/Resident_login.html'">Resident Login</button><br><br>
9           <button onclick="window.location.href= 'http://localhost/CSE370_project/Owner_sign-up.html'">Flat Owner Sign-Up</button><br><br>
10          <button onclick="window.location.href= 'http://localhost/CSE370_project/tenant_sign-up.html'">Tenant Sign-Up</button><br><br>
11        </td>
12      </tr>
13    </table>
14  </body>
15 </html>
```

#Flat Available for Sell/Rent: Anyone visiting the website can see flats available for rent or sell and their address inside the society.

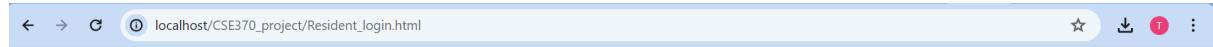


Building_name: Serene Haven, Building_no.: 8, Road_no.: 9, Flat_no.: 8, Floor_no.: 7, Cost: 123, Rent or Sell: Rent, Description: 1200 sqft.

Code:

```
1 <?php
2 require_once("dbconnect.php");
3 $sql = "SELECT apartment_a3.Building_name, apartment_a2.Building_no, apartment_a2.Road_no, apartment_a1.Flat_no,
4     apartment_a1.Floor_no, Cost, Rent_or_Sell, Description FROM (((apartment_a2 INNER JOIN apartment_a3 ON apartment_a2.
5     Building_no=apartment_a3.Building_no) INNER JOIN apartment_a1 ON apartment_a1.Building_no=apartment_a2.Building_no)
6     INNER JOIN sellsorrents ON sellsorrents.S_Flat_ID=apartment_a1.Flat_ID)";
7 $result = $conn->query($sql);
8 if ($result->num_rows > 0) {
9     // output data of each row
10    while($row = $result->fetch_assoc()) {
11        echo "<br> Building_name: " . $row["Building_name"]. ", Building_no.: " . $row["Building_no"]. ", Road_no.: " . $row["Road_no"]. ",
12            Flat_no.: " . $row["Flat_no"]. ", Floor_no.: " . $row["Floor_no"]. ", Cost: " . $row["Cost"]. ",
13            Rent or Sell: " . $row["Rent_or_Sell"]. ", Description: " . $row["Description"]. ".<br><br>";
14    }
15 } else {
16     echo "0 results";
17 }
18 $conn->close();
19 ?>
```

#Resident Login: Residents are of 2 types. Flat Owner or Tenant. Residents can login to use multiple features.



Login

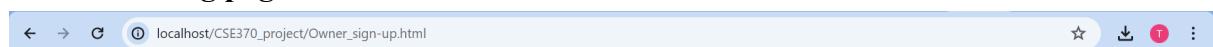
Resident_ID:

Password:

type: Flat Owner Tenant

```
1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>Login</h1>
7 <form action="http://localhost/cse370_project/Resident_login.php" method="post">
8 Resident_ID: <input type="text" name="Resident_ID" /><br><br>
9 Password: <input type="password" name="password" /><br><br>
10 type:
11 <select name="type">
12   <option value="Flat Owner">Flat Owner</option>
13   <option value="Tenant">Tenant</option>
14 </select>
15 <input type="submit"/>
16 </form>
17 </body>
18 </html>
```

#Flat Owner Sign-Up: For a Flat Owner to login, He needs to sign-up first entering data in the following page



Sign-Up

Resident_ID:

Name:

Contact Number:

Password:

Owner_ID:

Flat_ID:

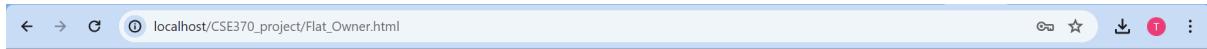
OTP:

```

1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>sign-Up</h1>
7 <form action="http://localhost/CSE370_project/add_owner.php" method="post">
8 Resident_ID: <input type="text" name="Resident_ID" size="30"><br><br>
9 Name: <input type="text" name="Name" size="30"><br><br>
10 Contact Number: <input type="number" name="Contact_num" size="30"><br><br>
11 Password: <input type="password" name="password" size="30"><br><br>
12 Owner_ID: <input type="text" name="Owner_ID" size="30"><br><br>
13 Flat_ID: <input type="text" name="Flat_ID" size="30"><br><br>
14 OTP: <input type="text" name="otp" size="30"><br><br>
15 <input type="submit"/>
16 </form>
17 </td>
18 </tr>
19 </table>
20 </body>
21 </html>

```

#Owner Home page (after login): After Owner login into the website, he will see this page



Code:

```

1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>flat_Owner</h1>
7 <button onclick="window.location.href='http://localhost/CSE370_project/rent_or_sell.html'">Want to rent or sell?</button><br><br>
8 <button onclick="window.location.href='http://localhost/CSE370_project/remove_sell_or_rent.php'">Remove Flat from 'Flat For Sell/rent'</button><br><br>
9 <button onclick="window.location.href='http://localhost/CSE370_project/Add_Flat.html'">Add a Flat</button><br><br>
10 <button onclick="window.location.href='http://localhost/CSE370_project/Remove_Flat.html'">Remove a Flat</button><br><br>
11 <button onclick="window.location.href='http://localhost/CSE370_project/resident_requests.html'">Maintainence Request</button><br><br>
12 <button onclick="window.location.href='http://localhost/CSE370_project/Update_Rent.php'">Update rent of tenants</button><br><br>
13 <button onclick="window.location.href='http://localhost/CSE370_project/resident_notification.php'">Notifications</button><br><br>
14 <button onclick="window.location.href='http://localhost/CSE370_project/logout.php'">logout</button><br><br>
15 </td>
16 </tr>
17 </table>
18 </body>
19 </html>

```

#Want to rent or sell?: If the Flat Owner wants to rent or sell his flat, he will need to click on the link of the page and enter the following information given on that page.

Rent or Sell

Flat ID:

Cost(BDT):

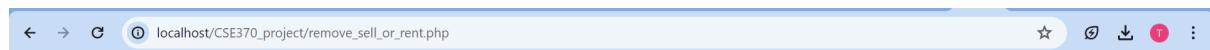
Rent or Sell?

Description:

Code:

```
1 <html>
2   <body>
3     <table width="100%" height="100%">
4       <tr>
5         <td align="center" valign="middle">
6           <h1>Rent or Sell</h1>
7           <form action="http://localhost/cse370_project/Insert_flat_for_rent_sell.php" method="post">
8             Flat_ID: <input type="text" name="Flat_ID"><br><br>
9             Cost(BDT): <input type="number" name="Cost"><br><br>
10            Rent or Sell?
11            <select name="rent_or_sell">
12              <option value="Rent">Rent</option>
13              <option value="Sell">Sell</option>
14            </select><br><br>
15            Description: <input type="text" name="Description"><br><br>
16            <input type="submit" name="submit">
17            <input type="hidden" name="form_submitted" value="1">
18          </form>
19        </td>
20      </tr>
21    </table>
22  </body>
23 </html>
```

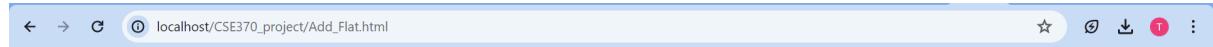
#Remove Flat from ‘Flat For Sell/Rent’: If a Flat is sold/rented, then Flat Owner can remove it from the available list..



Code:

```
1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>Remove Flats from 'Flat For Sell'</h1>
7 <form action="http://localhost/CSE370_project/update_remove_sell_or_rent.php" method="post">
8 Flat_ID:
9 <select name="Flat_ID">
10 <?php
11 session_start();
12 require_once("dbconnect.php");
13 $Resident_ID=$_SESSION['Resident_ID'];
14 $query="SELECT S_Flat_ID FROM sellsrents WHERE O_Resident_ID='$Resident_ID'";
15 $result = $conn->query($query);
16 if ($result->num_rows > 0) {
17     while ($row = $result->fetch_assoc()) {
18         $f=$row["S_Flat_ID"];
19         echo "<option value='{$f}'>{$f}</option>";
20     }
21 }
22 ?>
23 </select>
24 <input type="submit">
25 </form>
26 </td>
27 </tr>
28 </table>
29 </body>
30 </html>
```

#Add a Flat: If a Flat Owner buys another flat, he can add the flat on his own name.



Add Flat

Flat_ID:

OTP:

Code:

```
1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>Add Flat</h1>
7 <form action="http://localhost/CSE370_project/Add_Flat.php" method="post">
8 Flat_ID: <input type="text" name="Flat_ID" /><br><br>
9 OTP: <input type="text" name="otp" size="30"><br><br>
10 <input type="submit"/>
11 </form>
12 </td>
13 </tr>
14 </table>
15 </body>
16 </html>
```

#Remove Flat: If a Flat Owner sold his flat and he does not own a flat he used to own earlier, he can remove the flat and create a new otp with which the new owner can sign-up or add the flat.



Remove Flat

Flat_ID:

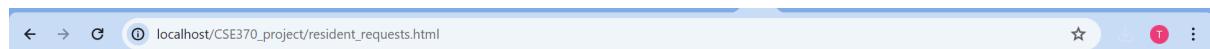
Create a new OTP:

Code:

A screenshot of a code editor with multiple tabs open. The active tab is "Remove_Flat.html". The code is as follows:

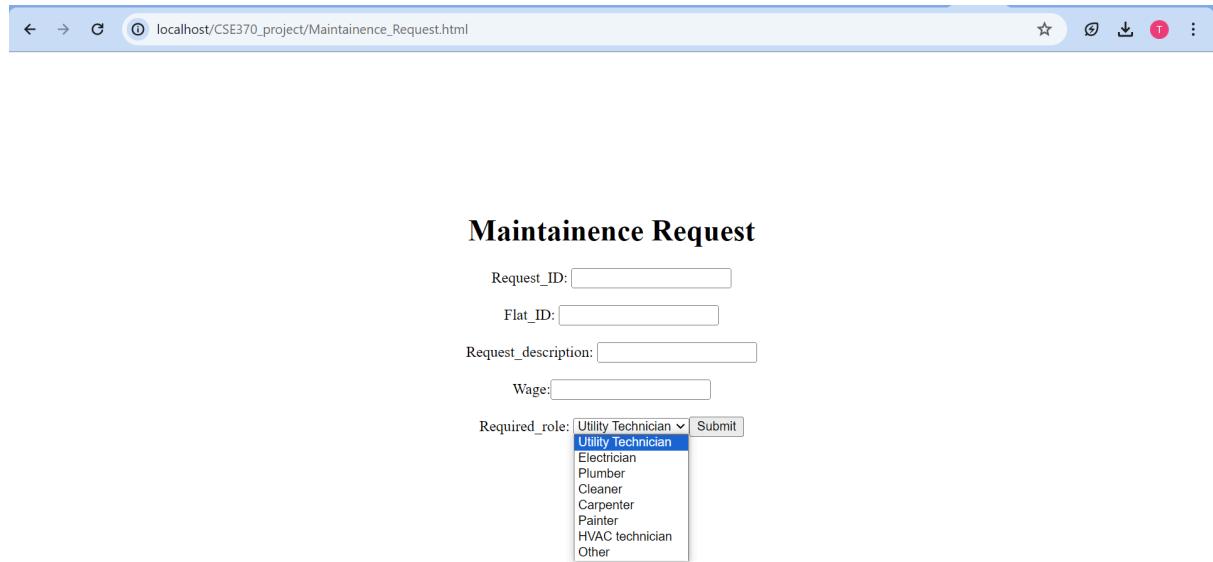
```
1 <html>
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <h1>Remove Flat</h1>
7 <form action="http://localhost/CSE370_project/Remove_Flat.php" method="post">
8 Flat_ID: <input type="text" name="Flat_ID" /><br><br>
9 Create a new OTP: <input type="text" name="otp" size="30"><br><br>
10 <input type="submit"/>
11 </form>
12 </td>
13 </tr>
14 </table>
15 </body>
16 </html>
```

#Maintenance request: Residents can make maintenance requests and see old requests accepted by the staff.



Maintenence Request

#Make a new request: Residents can create new maintenance requests. It will notify the staff related to it.



Maintainence Request

Request_ID:

Flat_ID:

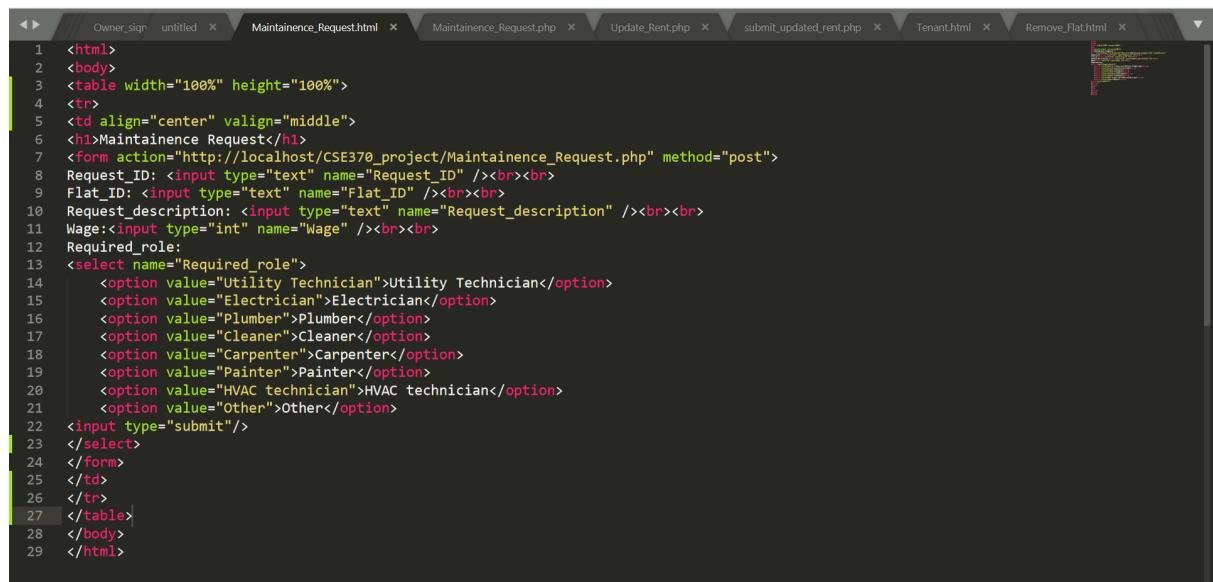
Request_description:

Wage:

Required_role: Utility Technician ▾

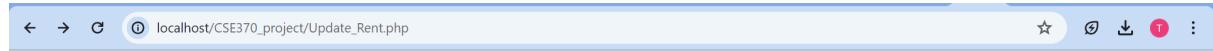
- Utility Technician
- Electrician
- Plumber
- Cleaner
- Carpenter
- Painter
- HVAC technician
- Other

Code:



```
1 <html>
2   <body>
3     <table width="100%" height="100%">
4       <tr>
5         <td align="center" valign="middle">
6           <h1>Maintainence Request</h1>
7           <form action="http://localhost/CSE370_project/Maintainence_Request.php" method="post">
8             Request_ID: <input type="text" name="Request_ID" /><br><br>
9             Flat_ID: <input type="text" name="Flat_ID" /><br><br>
10            Request_description: <input type="text" name="Request_description" /><br><br>
11            Wage:<input type="int" name="Wage" /><br><br>
12            Required_role:<br>
13            <select name="Required_role">
14              <option value="Utility Technician">Utility Technician</option>
15              <option value="Electrician">Electrician</option>
16              <option value="Plumber">Plumber</option>
17              <option value="Cleaner">Cleaner</option>
18              <option value="Carpenter">Carpenter</option>
19              <option value="Painter">Painter</option>
20              <option value="HVAC technician">HVAC technician</option>
21              <option value="Other">Other</option>
22            </select>
23            <input type="submit"/>
24          </form>
25        </td>
26      </tr>
27    </table>
28  </body>
29 </html>
```

#Update Rent of tenant: Flat Owners who have rented their flat can change the rent and notify the respective tenant about the change.



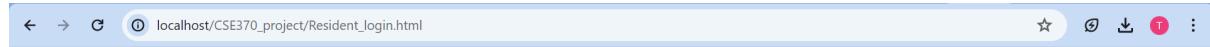
Update Flat Rent

Flat_ID: F2 Updated rent:
Applicable from:

Code:

```
1 <html>
2   <body>
3     <table width="100%" height="100%">
4       <tr>
5         <td align="center" valign="middle">
6           <h1>Update Flat Rent</h1>
7           <form action="http://localhost/CSE370_project/submit_updated_rent.php" method="post">
8             Flat_ID:
9               <select name="Flat_ID">
10                 <?php
11                   session_start();
12                   require_once("dbconnect.php");
13                   $Resident_ID = $_SESSION['Resident_ID'];
14                   $query = "SELECT T_Flat_ID FROM tenant WHERE O_Resident_ID='$Resident_ID'";
15                   $result = $conn->query($query);
16                   if ($result->num_rows > 0) {
17                     while ($row = $result->fetch_assoc()) {
18                       $f = $row["T_Flat_ID"];
19                       echo "<option value='{$f}'>{$f}</option>";
20                     }
21                   }
22                 >
23               </select>
24             Updated rent: <input type="text" name="rent"><br><br>
25             Applicable from:
26               <input type="month" name="month">
27               <input type="submit" value="Submit">
28             </form>
29           </td>
30         </tr>
31       </table>
32     </body>
33   </html>
```

#Logout: The frontend view after clicking logout



Login

Resident_ID:

Password:

type:

Contribution of ID : 22141004, Name : Nouruzzaman Niloy

#Separate webpage for staffs

```
① home_staff.html > ↗ html
1   <html>
2   <body>
3   <table width="100%" height="60%">
4   <tr>
5   <td align="center">
6   <h1>Baganbari Society Staff</h1>
7
8
9
10  <button onclick="window.location.href='http://localhost/CSE370_project/staff_sign-up.html'">New Staff Sign up</button><br>
11  <br>
12  <button onclick="window.location.href='http://localhost/CSE370_project/Staff_login.html'">Login</button><br>
13  <br>
14
15
16
17  </body>
18  </html>
```



Baganbari Society Staff

#Staff sign up page

```
< staff_sign-up.html > html > body
1   <html>
2   <body>
3   <table width="100%" height="60%">
4   <tr>
5   <td align="center">
6   <h1>Staff Sign Up</h1>
7   <form action="http://localhost/CSE370_project/add_staff.php" method="post">
8   Staff ID: <input type="text" name="Staff_ID" /><br><br>
9   Name: <input type="text" name="Name" /><br><br>
10  Contact Number: <input type="number" name="Contact_num" /><br><br>
11  Password: <input type="password" name="password" /><br><br>
12  Role:
13  <select name="Role">
14      <option value="Utility Technician">Utility Technician</option>
15      <option value="Electrician">Electrician</option>
16      <option value="Plumber">Plumber</option>
17      <option value="Cleaner">Cleaner</option>
18      <option value="Carpenter">Carpenter</option>
19      <option value="Painter">Painter</option>
20      <option value="HVAC technician">HVAC technician</option>
21      <option value="Other">Other</option>
22
23  </select>
24  <input type="submit"/>
25  </form>
26  </body>
27  </html>
```

localhost:3000/staff_sign-up.html

Staff Sign Up

Staff ID:

Name:

Contact Number:

Password:

Role:

#Staff home page

localhost/CSE370_project/Staff.html

Staff Home page

[Check requests](#)

[Accepted Requests](#)

[logout](#)

```
staff.html > html > body > table > tr > td > button
1 <html>
2 <body>
3 <table width="100%" height="60%">
4 <tr>
5 <td align="center">
6 <h1>Staff Home page</h1>
7
8 <button onclick="window.location.href='http://localhost/CSE370_project/respond_request.php'">Check requests</button><br>
9 <br>
10 <button onclick="window.location.href='http://localhost/CSE370_project/accepted_staff.php'">Accepted Requests</button><br>
11 <br>
12 <button onclick="window.location.href='http://localhost/CSE370_project/logout_staff.php'">logout</button><br>
13 <br>
14 </td>
15 </body>
16 </html>
```

#Staff Checking available request#

localhost/CSE370_project/respond_request.php

Staff_ID: S200, Staff_role: Plumber

Request_ID: 1 || Request_description: Unga || Wage: 1111 || Required_role: Plumber.

[Accept](#)

Request_ID: 55 || Request_description: aasd || Wage: 123 || Required_role: Plumber.

[Accept](#)

#Staff checking accepted requests#

Request_ID: 55 || Request_description: aasd || Required_role: Plumber || Flat ID: F100 || Wage: 123.

#Resident Checking Accepted and Pending request#

Accepted Requests

Request_ID: 55 || Request_description: aasd || Required_role: Plumber || Assigned Staff: S200 || Contact number: 1945344268 || Wage: 123.

Pending Requests

No pending maintenance requests

Contribution of ID : 22141013, Name : MD. Atiq Mahbub

#Tenant Sign up page:- This is the sign up page of a tenant. After pressing into sign up as a tenant button from the home page the person will get to see this. We have not used any css so the basic html code is also added down below.

Tenant Sign up

Tenant ID:

Name:

Contact Number:

Password:

Resident ID:

Flat ID:

```
① tenant_sign-up.html > ② html > ③ head > ④ style > ⑤ form
 1  <html>
 2  <head>
 3  <style>
 4  body {
 5      display: flex;
 6      flex-direction: column;
 7      justify-content: center;
 8      align-items: center;
 9      height: 100vh;
10      margin: 0;
11  }
12
13 h1 {
14     position: absolute;
15     top: 15%;
16     width: 100%;
17     text-align: center;
18 }
19
20 form [
21     text-align: center;
22 ]
23 </style>
24 </head>
25 <body>
26 <h1>Tenant sign up</h1>
27 <form id="myForm" action="http://localhost/CSE370_project/add_tenant.php" method="post">
28 Tenant ID: <input type="text" name="Tenant_ID" /><br><br>
29 Name: <input type="text" name="Name" /><br><br>
30 Contact Number: <input type="number" name="Contact_num" /><br><br>
31 Password: <input type="password" name="password" /><br><br>
32 Resident ID: <input type="text" name="T_Resident_ID" /><br><br>
33 Flat ID: <input type="text" name="T_Flat_ID" id="T_Flat_ID" onblur="fetchOwnerDetails()" /><br><br>
34 <input type="submit"/>
35 </form>
36 </body>
37 </html>
```

#Tenant Home page:- After logging in this the page that a tenant will see. We have not used any css. It is made of just basic html code.

Tenant

[Pay Rent](#)

[Maintenance Request](#)

[Leaves](#)

[Resident Notification](#)

[Logout](#)

```
⑦ Tenant.html > ⚒ html
1   <html>
2   <body>
3   <table width="100%" height="60%">
4   <tr>
5   <td align="center">
6   <h1>Tenant</h1>
7   <button onclick="window.location.href='http://localhost/CSE370_project/pay_rent.html'">Pay Rent</button><br>
8   <br>
9   <button onclick="window.location.href='http://localhost/CSE370_project/resident_requests.html'">Maintenance Request</button><br>
10  <br>
11  <button onclick="window.location.href='http://localhost/CSE370_project/leaves.php'">Leaves</button><br>
12  <br>
13  <button onclick="window.location.href='http://localhost/CSE370_project/resident_notification.php'">Resident Notification</button><br>
14  <br>
15  <button onclick="window.location.href='http://localhost/CSE370_project/logout.php'">Logout</button><br>
16  </td>
17  </tr>
18  </table>
19  </body>
20  </html>
```

#Pay rent= After clicking on pay rent tenant will get to see the page which is attached below and the html code behind it also attached here down below

Month:

[Pay Rent](#)

```
pay_rent.html > html
1 C:\xampp\htdocs\CSE370_project\pay_rent.html
2 <body>
3 <table width="100%" height="100%">
4 <tr>
5 <td align="center" valign="middle">
6 <form id="myForm" action="http://localhost/CSE370_project/pay_rent.php" method="post">
7 Month: <input type="text" name="Month" /><br><br>
8 <input type="submit" value="Pay Rent"/><br><br>
9 </form>
10 </body>
11 </html>
```

#Maintenance request= After clicking on maintenance request tenant will get to see this buttons =

Maintenence Request

Make a new Request

My Requests

#Leaves= After clicking on the leaves button the tenant will get to see goodbye message.

Leaves

Good Bye

#Resident Notification= After clicking on resident notification, the tenant will get to see all of the notification. If there is any notification then the tenant will see this.

Notice from R100:Rent will change to 1234 from 2024-01.

[Clear All Notifications](#)

If the person clicks on clear all notification button then all of his notifications will be cleared and will get this message

All notifications has been cleared.

After that if the person goes to notification then the person will not have any notification and will get this message.

No notification for you

#Log out = After clicking on logout button the person will be redirected to log in page once again

[Logout](#)

Login

Resident_ID:

Password:

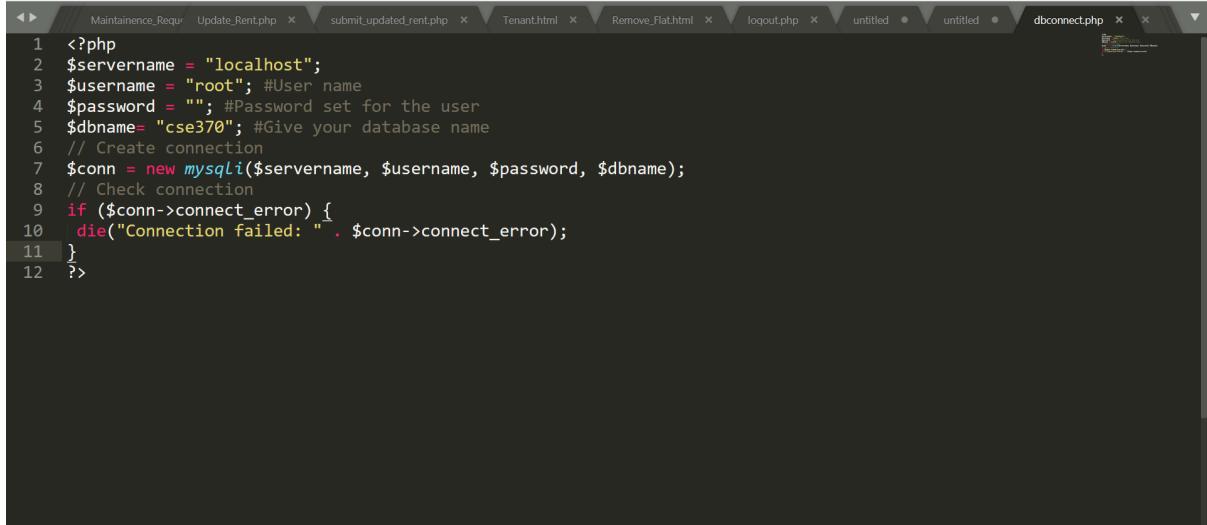
type:

Backend Development

Briefly discuss about Backend Development and add Screenshots by mentioning Individual Contributions

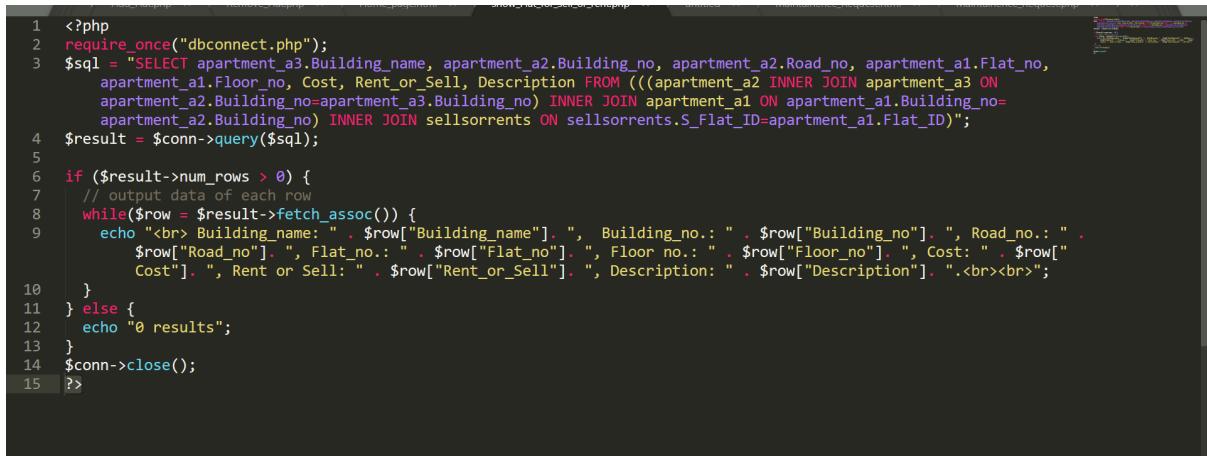
Contribution of ID : 22101137, Name : Tanjila Fariha

#Database Connection:



```
1 <?php
2 $servername = "localhost";
3 $username = "root"; #User name
4 $password = ""; #Password set for the user
5 $dbname= "cse370"; #Give your database name
6 // Create connection
7 $conn = new mysqli($servername, $username, $password, $dbname);
8 // Check connection
9 if ($conn->connect_error) {
10 die("Connection failed: " . $conn->connect_error);
11 }
12 ?>
```

#Showing Flat available for sells/rents from ‘sellsrrents’ table. Anyone visiting the website can see the information on the availability of flat.



```
1 <?php
2 require_once("dbconnect.php");
3 $sql = "SELECT apartment_a3.Building_name, apartment_a2.Building_no, apartment_a2.Road_no, apartment_a1.Flat_no,
        apartment_a1.Floor_no, Cost, Rent_or_Sell, Description FROM (((apartment_a2 INNER JOIN apartment_a3 ON
        apartment_a2.Building_no=apartment_a3.Building_no) INNER JOIN apartment_a1 ON apartment_a1.Building_no=
        apartment_a2.Building_no) INNER JOIN sellsrrents ON sellsrrents.S_Flat_ID=apartment_a1.Flat_ID)";
4 $result = $conn->query($sql);
5
6 if ($result->num_rows > 0) {
7     // output data of each row
8     while($row = $result->fetch_assoc()) {
9         echo "<br> Building_name: " . $row["Building_name"] . ", Building_no.: " . $row["Building_no"] . ", Road_no.: " .
10             $row["Road_no"] . ", Flat_no.: " . $row["Flat_no"] . ", Floor no.: " . $row["Floor_no"] . ", Cost: " . $row["Cost"] . ",
11             Rent or Sell: " . $row["Rent_or_Sell"] . ", Description: " . $row["Description"] . "<br><br>";
12     }
13 } else {
14     echo "0 results";
15 }
16 $conn->close();
17 ?>
```

#Resident Login: If Resident login using appropriate information, then his resident_ID will be remembered throughout the login session. If he gives the wrong password, he will not be able to login. If he keeps a field empty, he will not be able to login.

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $Resident_ID = $_POST['Resident_ID'];
5 $password = $_POST['password'];
6 $type= $_POST['type'];
7 if (empty($Resident_ID) or empty($password)) {
8     echo "required field is empty.";
9 }
10 else {
11     $query="SELECT * FROM resident where Resident_ID='".$Resident_ID' AND password='".$password."'";
12     $result = $conn->query($query);
13     $row = $result->fetch_assoc();
14     if ($row) {
15         $_SESSION['Resident_ID'] = $row['Resident_ID'];
16         if ($type=='Flat Owner') {
17             header('Location: http://localhost/CSE370_project/Flat_Owner.html');
18         } elseif ($type=='Tenant') {
19             header('Location: http://localhost/CSE370_project/Tenant.html');
20         }
21     }
22     else {
23         echo "Invalid Login Credentials";
24         session_destroy();
25     }
26 }
27 ?>

```

#Flat Owner Sign-Up: If anyone does not have an account but a flat owner of an apartment inside the society, he needs to login using atleast 1 Flat that is on his name. If he gives wrong Flat_ID or keeps any field empty, he will not be able to signup until he gives all appropriate information.

```

1 <?php
2 include 'dbconnect.php';
3 $Resident_ID = $_POST['Resident_ID'];
4 $Name = $_POST['Name'];
5 $Contact_num = $_POST['Contact_num'];
6 $password = $_POST['password'];
7 $Owner_ID = $_POST['Owner_ID'];
8 $Flat_ID = $_POST['Flat_ID'];
9 $otp = $_POST['otp'];
10 $flag=0;
11 if (empty($Flat_ID) or empty($Owner_ID) or empty($password) or empty($Contact_num) or empty($Name) or empty($Resident_ID) or empty($otp)) {
12     echo "required field is empty.";
13 }
14 else {
15     $query1="SELECT O_Flat_ID FROM owns";
16     $result1 = $conn->query($query1);
17     if ($result1->num_rows > 0) {
18         while ($row1 = $result1->fetch_assoc()) {
19             if ($row1['O_Flat_ID']===$Flat_ID) {
20                 $flag=1;
21                 echo "Flat already has an owner";
22             }
23         }
24     }
25     if ($flag==0) {
26         $query2="SELECT Owner_ID FROM flat_owner";
27         $result2 = $conn->query($query2);
28         if ($result2->num_rows > 0) {
29             while ($row2 = $result2->fetch_assoc()) {
30                 if ($row2['Owner_ID']===$Owner_ID) {
31                     $flag=1;
32                     echo "This Owner_ID Already Exists";
33                 }
34             }
35         }
36     }
37 }
38 if ($flag==0) {
39     $query="SELECT Flat_ID,otp FROM apartment_a1";
40     $result = $conn->query($query);
41     if ($result->num_rows > 0) {
42         while ($row = $result->fetch_assoc()) {
43             if ($row['Flat_ID']===$Flat_ID && $row['otp']===$otp) {
44                 $flag=1;
45             }
46         }
47     }
48 }
49

```

```

26 if ($flag==0) {
27     $query3="SELECT Owner_ID FROM flat_owner";
28     $result3 = $conn->query($query3);
29     if ($result3->num_rows > 0) {
30         while ($row=$result3->fetch_assoc()) {
31             if ($row['Owner_ID']===$owner_ID) {
32                 $flag=1;
33                 echo "This Owner_ID Already Exists";
34             }
35         }
36     }
37 }
38 if ($flag==0) {
39     $query="SELECT Flat_ID,otp FROM apartment_a1";
40     $result = $conn->query($query);
41     if ($result->num_rows > 0) {
42         while ($row = $result->fetch_assoc()) {
43             if ($row['Flat_ID']===$flat_ID && $row['otp']===$otp) {
44                 $flag=1;
45                 $sql = "INSERT INTO resident (Resident_ID, Password, Name, Contact_num)
46                         VALUES ('$Resident_ID', '$password', '$Name' '$Contact_num')";
47                 $sql .= "INSERT INTO flat_owner (O_Resident_ID, Owner_ID)
48                         VALUES ('$Resident_ID', '$Owner_ID')";
49                 $sql .= "INSERT INTO owns (O_Flat_ID, O_Resident_ID, O_Owner_ID)
50                         VALUES ('$flat_ID', '$Resident_ID', '$Owner_ID')";
51             }
52             if ($conn->multi_query($sql) === TRUE) {
53                 echo "Sign-Up successful. login now";
54                 header("Location: http://localhost/CSE370_project/Resident_login.html");
55             } else {
56                 echo "Error: " . $sql . "<br>" . $conn->error;
57             }
58         }
59     }
60     $conn->close();
61 }
62 if ($flag==0) {
63     echo "Sign-Up Unsuccessful. Wrong Flat_ID or OTP";
64 }
65 }
66 }
67 ?>

```

#Inserting flat for rent or sell: If a Flat Owner want to rent or sell one of his flat, he can insert the flat information which will be inserted in ‘sellorrents’ table.

```

3 <?php
4 session_start();
5 require_once("dbconnect.php");
6 $Resident_ID=$_SESSION['Resident_ID'];
7 $flat_ID = $_POST['Flat_ID'];
8 $Cost = $_POST['Cost'];
9 $rent_or_sell = $_POST['rent_or_sell'];
10 $description = $_POST['Description'];
11 $flag=0;
12 if (empty($Resident_ID) or empty($flat_ID) or empty($Cost) or empty($rent_or_sell) or empty($description)) {
13     echo "required field is empty";
14 } else {
15     $query="SELECT O_Flat_ID FROM owns WHERE O_Resident_ID='$Resident_ID'";
16     $result = $conn->query($query);
17     if ($result->num_rows > 0) {
18         while ($row=$result->fetch_assoc()) {
19             if ($row['O_Flat_ID']===$flat_ID) {
20                 $flag=1;
21                 $query1="SELECT Owner_ID FROM flat_owner WHERE O_Resident_ID='$Resident_ID'";
22                 $result1 = $conn->query($query1);
23                 $row1 = $result1->fetch_assoc();
24                 $Owner_ID=$row1['Owner_ID'];
25                 $sql = "INSERT INTO sellorrents (S_Owner_ID, S_Flat_ID, O_Resident_ID, Cost, Rent_or_Sell, Description)
26                         VALUES ('$Owner_ID', '$flat_ID', '$Resident_ID', '$Cost', '$rent_or_sell', '$description')";
27                 if ($conn->multi_query($sql) === TRUE) {
28                     echo "New record created successfully";
29                 } else {
30                     echo "Error: " . $sql . "<br>" . $conn->error;
31                 }
32             }
33         }
34     if ($flag==0) {
35         echo "wrong information, enter again.";
36     }
37 }
38 ?>

```

#Remove Flat from ‘Flat For Sell’: If Flat Owner does not want to keep the flat in the list of “Flat For Sell/Rent”, he can remove it from there.

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $Resident_ID=$_SESSION['Resident_ID'];
5 $Flat_ID = $_POST['Flat_ID'];
6 if (isset($Resident_ID) && isset($Flat_ID)) {
7     $sql = "DELETE FROM sellsrents WHERE S_Flat_ID='$Flat_ID'";
8     if ($conn->query($sql) == TRUE) {
9         echo "Removed successfully";
10    } else {
11        echo "Error: " . $sql . "<br>" . $conn->error;
12    }
13    $conn->close();
14
15 }
16 ?>

```

#Add Flat: If a Flat Owner buys another Flat inside the society, he can add the Flat on his name and it will insert the information in the database. If he inserts a flat_ID that is already on his name, it will not be added twice on the database table. Given a Flat_ID that has a current owner, user will not be able to add that flat on his name. If user gives wrong otp or invalid Flat_ID, he will not be able to add the flat on his name. Upon giving a correct Flat_ID and OTP, user can add the flat on his name. It will be added to the owns table.

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $Resident_ID=$_SESSION['Resident_ID'];
5 $Flat_ID = $_POST['Flat_ID'];
6 $flag=0;
7 $otp = $_POST['otp'];
8 if (empty($flat_ID) || empty($otp)) {
9     echo "Required field is empty.";
10    $flag=1;
11 }
12 else {
13     $query="SELECT O_Flat_ID FROM owns WHERE O_Resident_ID='".$Resident_ID."'";
14     $result = $conn->query($query);
15     if ($result->num_rows > 0) {
16         while ($row = $result->fetch_assoc()) {
17             if ($row['O_Flat_ID']===$flat_ID) {
18                 $flag=1;
19                 echo "Flat already added on your name";
20             }
21         }
22     }
23     if ($flag==0) {
24         $query1="SELECT O_Flat_ID FROM owns";
25         $result1 = $conn->query($query1);
26         if ($result1->num_rows > 0) {
27             while ($row1 = $result1->fetch_assoc()) {
28                 if ($row1['O_Flat_ID']===$flat_ID) {
29                     $flag=1;
30                     echo "Flat already has an owner";
31                 }
32             }
33         }
34     }
35     if ($flag==0) {
36         $query2="SELECT Flat_ID,otp FROM apartment_a1";
37         $result2 = $conn->query($query2);
38         if ($result2->num_rows > 0) {
39             while ($row2 = $result2->fetch_assoc()) {
40                 if ($row2['Flat_ID']===$flat_ID && $row2['otp']===$otp) {
41                     $flag=1;
42                     $query3="SELECT Owner_ID FROM flat_owner WHERE O_Resident_ID='".$Resident_ID."'";
43                     $result3 = $conn->query($query3);
44                     $row3 = $result3->fetch_assoc();
45                 }
46             }
47         }
48     }
49 }
50

```

```

23     if ($Flag==0) {
24         $query1 = "SELECT O_Flat_ID FROM owns";
25         $result1 = $conn->query($query1);
26         if ($result1->num_rows > 0) {
27             while ($row1 = $result1->fetch_assoc()) {
28                 if ($row1['O_Flat_ID']===$Flat_ID) {
29                     $Flag=1;
30                     echo "Flat already has an owner";
31                 }
32             }
33         }
34     }
35     if ($Flag==0) {
36         $query2 = "SELECT Flat_ID,opt FROM apartment_a1";
37         $result2 = $conn->query($query2);
38         if ($result2->num_rows > 0) {
39             while ($row2 = $result2->fetch_assoc()) {
40                 if ($row2['Flat_ID']===$Flat_ID && $row2['otp']===$otp) {
41                     $Flag=1;
42                     $query3 = "SELECT Owner_ID FROM flat_owner WHERE O_Resident_ID='".$Resident_ID."'";
43                     $result3 = $conn->query($query3);
44                     $row3 = $result3->fetch_assoc();
45                     $Owner_ID= $row3['Owner_ID'];
46                     $sql= "INSERT INTO owns (O_Flat_ID, O_Resident_ID, O_Owner_ID)
VALUES ('$Flat_ID', '$Resident_ID', '$Owner_ID')";
47                     if ($conn->query($sql) == TRUE) {
48                         echo "New record created successfully";
49                     } else {
50                         echo "Error: " . $sql . "<br>" . $conn->error;
51                     }
52                     $conn->close();
53                 }
54             }
55         }
56     }
57 }
58 }
59 if ($Flag==0) {
60     echo "Wrong Flat_ID or OTP, enter again.";
61     header("Refresh: 5; URL=http://localhost/CSE370_project/Add_Flat.html");
62 }
63 }
64 ?>

```

#Remove Flat: If a Flat Owner sells one of his Flats, he will remove the flat from her name and create a new otp for the new owner. The otp of the flat will be updated in the apartment_a1 table and flat will be deleted from the ‘owns’ table.

```

1  <?php
2  session_start();
3  require_once("dbconnect.php");
4  $Resident_ID = $_SESSION['Resident_ID'];
5  $Flat_ID = $_POST['Flat_ID'];
6  $otp= $_POST['otp'];
7  $Flag=0;
8  if (empty($Flat_ID) or empty($otp)) {
9      echo "required field is empty.";
10     $Flag=1;
11 }
12 else {
13     $query="SELECT Flat_ID FROM apartment_a1";
14     $result = $conn->query($query);
15     if ($result->num_rows > 0) {
16         while ($row = $result->fetch_assoc()) {
17             if ($row['Flat_ID']===$Flat_ID) {
18                 $query1="SELECT O_Flat_ID FROM owns WHERE O_Resident_ID='".$Resident_ID."'";
19                 $result1 = $conn->query($query1);
20                 if ($result1->num_rows > 0) {
21                     while ($row1 = $result1->fetch_assoc()) {
22                         if ($row1['O_Flat_ID']===$Flat_ID) {
23                             $Flag=1;
24                             $sql = "DELETE FROM owns WHERE O_Flat_ID='".$Flat_ID."'";
25                             $sql .= "UPDATE apartment_a1 SET otp='$otp' WHERE Flat_ID='".$Flat_ID."'";
26                             if ($conn->multi_query($sql) == TRUE) {
27                                 do {
28                                     if ($result = $conn->store_result()) {
29                                         $result->free();
30                                     }
31                                 } while ($conn->next_result());
32                             }
33                             echo "Flat_ID removed successfully";
34                         } else {
35                             echo "Error: " . $sql . "<br>" . $conn->error;
36                         }
37                     }
38                 }
39             }
40         }
41     }
42     break;
43 }
44 }
45 ?>

```

Line 24, Column 83

Tab Size: 4

PHP

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $flag=0;
5 $flag1=0;
6 $resident_ID = $_SESSION['Resident_ID'];
7 $Request_ID = $_POST['Request_ID'];
8 $flat_ID = $_POST['flat_ID'];
9 $Required_role = $_POST['Required_role'];
10 $Request_description = $_POST['Request_description'];
11 $Wage = $_POST['Wage'];
12 if (empty($flat_ID) or empty($Request_ID) or empty($Required_role) or empty($Request_description)) {
13 echo "required field is empty.";
14 }
15 else {
16 $query="SELECT O_Flat_ID FROM flat_owner where O_Resident_ID='$resident_ID'";
17 $result = $conn->query($query);
18 if ($result->num_rows > 0) {
19 $flag1=1;
20 } else {
21 $flag=0;
22 }
23 if ($flag==1) {
24 $query1="SELECT O_Flat_ID,T_Flat_ID FROM (owns left join tenant on owns.O_Flat_ID=tenant.T_Flat_ID) WHERE owns.O_Resident_ID='$resident_ID'";
25 $result1 = $conn->query($query1);
26 if ($result1->num_rows > 0) {
27 while ($row1 = $result1->fetch_assoc()) {
28 if ($row1['O_Flat_ID']==$flat_ID && $row1['T_Flat_ID']==NULL) {
29 $flag1=1;
30 $sql = "INSERT INTO maintenance_request (Request_ID,Resident_ID,Flat_ID,Status,Request_description,Required_role,Wage)
VALUES ('$Request_ID', '$resident_ID', '$flat_ID', 0, '$Request_description', '$Required_role', '$Wage')";
31 if ($conn->multi_query($sql) === TRUE) {
32 echo "New request created successfully";
33 } else {
34 echo "Error: " . $sql . "<br>" . $conn->error;
35 }
36 $conn->close();
37 break;
38 }
39 }
40 if ($flag1==0) {
41 echo "Wrong Flat_ID";
42 }
43 }
44 }
45 }
46 if ($flag==1) {
47 $query2="SELECT O_Flat_ID FROM owns WHERE O_Resident_ID='$resident_ID'";
48 $result2 = $conn->query($query2);
49 if ($result2->num_rows == 0) {
50 $sql1 = "DELETE FROM resident WHERE Resident_ID='$resident_ID'";
51 if ($conn->query($sql1) === TRUE) {
52 header('location: http://localhost/CSE370_project/Home_page.html');
53 } else {
54 echo "Error: " . $sql1 . "<br>" . $conn->error;
55 }
56 }
57 if ($flag==0) {
58 echo "wrong Flat_ID";
59 }
60 }
61 }
62 ?>

```

#Creating a maintenance request: Resident can create Maintenance Request and it will get added to the maintainence_request table.

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $flag=0;
5 $flag1=0;
6 $resident_ID = $_SESSION['Resident_ID'];
7 $Request_ID = $_POST['Request_ID'];
8 $flat_ID = $_POST['flat_ID'];
9 $Required_role = $_POST['Required_role'];
10 $Request_description = $_POST['Request_description'];
11 $Wage = $_POST['Wage'];
12 if (empty($flat_ID) or empty($Request_ID) or empty($Required_role) or empty($Request_description)) {
13 echo "required field is empty.";
14 }
15 else {
16 $query="SELECT O_Resident_ID FROM flat_owner where O_Resident_ID='$resident_ID'";
17 $result = $conn->query($query);
18 if ($result->num_rows > 0) {
19 $flag1=1;
20 } else {
21 $flag=0;
22 }
23 if ($flag==1) {
24 $query1="SELECT O_Flat_ID,T_Flat_ID FROM (owns left join tenant on owns.O_Flat_ID=tenant.T_Flat_ID) WHERE owns.O_Resident_ID='$resident_ID'";
25 $result1 = $conn->query($query1);
26 if ($result1->num_rows > 0) {
27 while ($row1 = $result1->fetch_assoc()) {
28 if ($row1['O_Flat_ID']==$flat_ID && $row1['T_Flat_ID']==NULL) {
29 $flag1=1;
30 $sql = "INSERT INTO maintenance_request (Request_ID,Resident_ID,Flat_ID,Status,Request_description,Required_role,Wage)
VALUES ('$Request_ID', '$resident_ID', '$flat_ID', 0, '$Request_description', '$Required_role', '$Wage')";
31 if ($conn->multi_query($sql) === TRUE) {
32 echo "New request created successfully";
33 } else {
34 echo "Error: " . $sql . "<br>" . $conn->error;
35 }
36 $conn->close();
37 break;
38 }
39 }
40 if ($flag1==0) {
41 echo "Wrong Flat_ID";
42 }
43 }
44 }
45 }
46 if ($flag==1) {
47 $query2="SELECT O_Flat_ID FROM owns WHERE O_Resident_ID='$resident_ID'";
48 $result2 = $conn->query($query2);
49 if ($result2->num_rows == 0) {
50 $sql1 = "DELETE FROM resident WHERE Resident_ID='$resident_ID'";
51 if ($conn->query($sql1) === TRUE) {
52 header('location: http://localhost/CSE370_project/Home_page.html');
53 } else {
54 echo "Error: " . $sql1 . "<br>" . $conn->error;
55 }
56 }
57 if ($flag==0) {
58 echo "wrong Flat_ID";
59 }
60 }
61 }
62 ?>

```

```

File Edit Selection Find View Goto Tools Project Preferences Help
resident_requests.html x Remove_Flat.php x Home_page.html x show_Flat_for_sell_or_rent.php x untitled x Maintenance_Request.html x Maintenance_Request.php x

1 VALUES ( '$request_ID' , '$resident_ID' , '$flat_ID' , 0 , '$request_description' , '$required_role' , '$age' );
2 if ($conn->multi_query($sql) == TRUE) {
3     echo "New request created successfully";
4 } else {
5     echo "Error: " . $sql . "<br>" . $conn->error;
6 }
7 $conn->close();
8 break;
9
10 }
11 if ($flag1==0) {
12     echo "Wrong Flat_ID";
13 }
14
15 } else {
16     echo "Wrong Flat_ID. Enter again";
17 }
18
19 } elseif ($flag==0) {
20     $query2="SELECT T_Flat_ID FROM tenant where T_Resident_ID='".$Resident_ID."'";
21     $result2 = $conn->query($query2);
22     if ($result2->num_rows > 0) {
23         $row2 = $result2->fetch_assoc();
24         if ($row2['T_Flat_ID']==$flat_ID) {
25             $sql="INSERT INTO resident_notification(Request_ID, Resident_ID,Flat_ID,Status,Request_description,Required_role,Age)
26             VALUES ('$Request_ID' , '$Resident_ID' , '$flat_ID' , 0 , '$Request_description' , '$Required_role' , '$Age')";
27             if ($conn->multi_query($sql) == TRUE) {
28                 echo "New request created successfully";
29             } else {
30                 echo "Error: " . $sql . "<br>" . $conn->error;
31             }
32             $conn->close();
33         } else {
34             echo "Wrong Flat_ID. Enter again.";
35         }
36     }
37 }
38
39 }
40
41 ?>

```

#submit updated rent into notification table: If Flat Owner has rented his flat/Flats, he can update the Flat rent and notify his tenant about the update. If he updates the rent, it will get added to the tenant's notification.

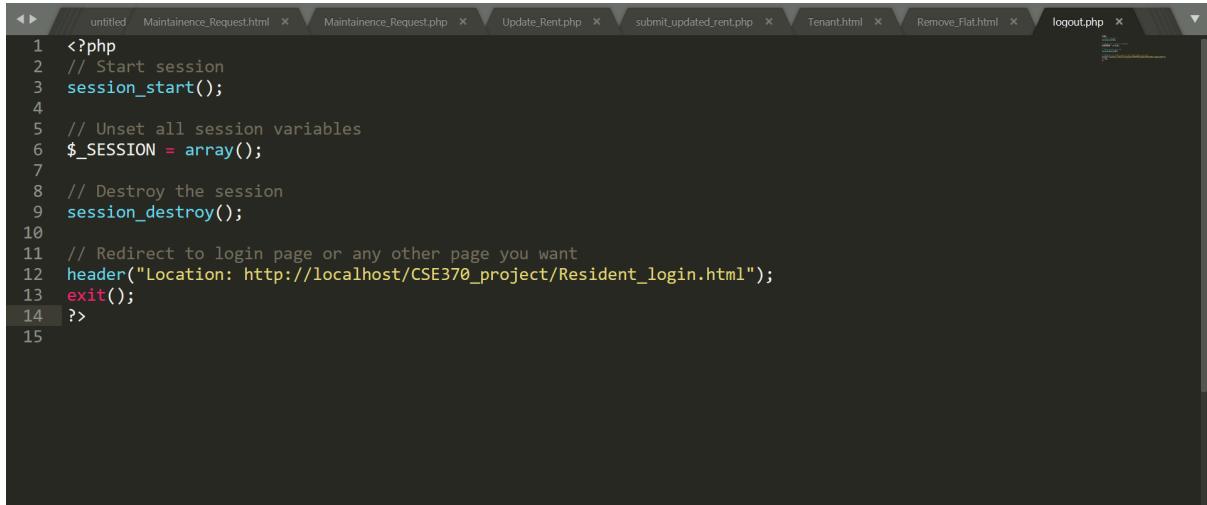
```

File Edit Selection Find View Goto Tools Project Preferences Help
Home_page.html x show_Flat_for_sell_or_rent.php x untitled x Maintenance_Request.html x Maintenance_Request.php x Update_Rent.php x submit_updated_rent.php x

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $Resident_ID=$_SESSION['Resident_ID'];
5 $rent = $_POST['rent'];
6 $flat_ID = $_POST['flat_ID'];
7 $Month = $_POST['month'];
8 if (empty($Resident_ID) or empty($rent) or empty($flat_ID) or empty($Month)) {
9     echo "Required Field is Empty";
10 }
11 else {
12     $query="SELECT T_Resident_ID FROM tenant where T_Flat_ID='".$flat_ID."'";
13     $result = $conn->query($query);
14     $row = $result->fetch_assoc();
15     $T_Resident_ID=$row['T_Resident_ID'];
16     $notif= "Notice from " . $Resident_ID . ":Rent will change to " . $rent . " from " . $Month . ".";
17     if (isset($T_Resident_ID)) {
18         $sql = "INSERT INTO resident_notification(Resident_ID, notification)
19             VALUES ('$T_Resident_ID' , '$notif')";
20         if ($conn->query($sql) == TRUE) {
21             echo "New notification sent successfully";
22         } else {
23             echo "Error: " . $sql . "<br>" . $conn->error;
24         }
25         $conn->close();
26     }
27 }
28 ?>

```

#logout: clicking logout will destroy the session and user will be back to the login page.



A screenshot of a code editor window showing a PHP script named `logout.php`. The code performs session management and redirection:

```
1 <?php
2 // Start session
3 session_start();
4
5 // Unset all session variables
6 $_SESSION = array();
7
8 // Destroy the session
9 session_destroy();
10
11 // Redirect to login page or any other page you want
12 header("Location: http://localhost/CSE370_project/Resident_login.html");
13 exit();
14 ?>
15
```

Contribution of ID : 22141004, Name : Nouruzzaman Niloy

#Staff can sign up with unique staff and by filling up all required fields. They can select roles from predetermined options.

If the conditions are not met Staffs won't be able to sign up(add_staff,staff_sign-up) #

CSE370_Project / add_staff.php

KhelaShikhi Update add_staff.php

Code Blame 44 lines (38 loc) · 1.01 KB Code 55% faster with GitHub Copilot

```
1 <?php
2 include 'dbconnect.php';
3 echo "<br>";
4
5 $Staff_ID = $_POST['Staff_ID'];
6 $password = $_POST['password'];
7 $Name = $_POST['Name'];
8 $Contact_num = $_POST['Contact_num'];
9 $Role = $_POST['Role'];
10 echo "<br>";
11 $flag=0;
12 if (empty($Staff_ID) or empty($password) or empty($Name) or empty($Contact_num) or empty($Role)) {
13     echo "Required field is empty.";
14     $flag=1;
15 }
16 else{
17     $query1="SELECT Staff_ID FROM service_and_utility_staff";
18     $result1 = $conn->query($query1);
19     if ($result1->num_rows > 0) {
20         while ($row1 = $result1->fetch_assoc()) {
21             if ($row1['Staff_ID']== $Staff_ID) {
22                 $flag=1;
23
24                 echo "Staff ID already exists";
25
26             }
27         }
28     }
29 }
30
31 if ($flag==0){
32     $sql1 = "INSERT INTO service_and_utility_staff (Staff_ID, Password, Name, Contact_num, Role)
33 VALUES ('$Staff_ID', '$password', '$Name', '$Contact_num', '$Role' )";
34     if ($conn->query($sql1) === TRUE) {
35         echo "New Staff added successfully";
36     }
37     else {
38         echo "Error: " . $conn->error;
39     }
40 }
41
42
43 $conn->close();
44 ?>
```

Staff Sign Up

Staff ID:

Name:

Contact Number:

Password:

Role:

- Utility Technician
- Electrician
- Plumber
- Cleaner
- Carpenter
- Painter
- HVAC technician**
- Other

#From the staff home page>Check requests- staff can check and accept maintenance requests available that haven't been accepted for his corresponding role. request maker and will no longer be available to other staffs to accept(respond_request,accept_request)##

CSE370_Project / respond_request.php

KhelaShikhi Add files via upload

Code Blame 52 lines (38 loc) · 1.77 kB Code 55% faster with GitHub Copilot

```

1  <?php
2
3  session_start();
4  include("dbconnect.php");
5
6  $Staff_ID = $_SESSION['Staff_ID'];
7
8
9  $sql_query = "SELECT * FROM service_and_utility_staff WHERE Staff_ID='$_Staff_ID'";
10 $result = $conn->query($sql_query);
11 $r_row = $result->fetch_assoc();
12
13
14 if ($r_row) {
15     $_SESSION['staff_ID'] = $r_row['Staff_ID'];
16     $s_role = $r_row['Role'];
17 }
18
19 echo "Staff_ID: $Staff_ID, Staff_role: $s_role <br><br>";
20
21
22
23 $sql = "SELECT Request_ID, Resident_ID, Flat_ID, Status, Request_description, Required_role,Wage FROM maintenance_request WHERE Status = 0";
24 $result = $conn->query($sql);
25
26
27 if ($result->num_rows > 0) {
28     $flag = 0;
29     // Individual requests
30     while ($row = $result->fetch_assoc()) {
31         if ($row['Required_role'] == $s_role) {
32             echo "Request_ID: " . $row["Request_ID"] . " || Request_description: " . $row["Request_description"] . " || Wage: " . $row["Wage"] . " || Required_role: " . $row["Required_role"] . "<br>";
33             // Accept Button
34             echo "<form action='accept_request.php' method='post'>";
35             echo "<input type='hidden' name='request_id' value='" . $row["Request_ID"] . "'>";
36             echo "<input type='submit' name='accept_request' value='Accept'>";
37             echo "</form>";
38             echo "-----";
39             echo "<br><br>";
40             $flag = 1;
41         }
42     }
43
44     if ($flag == 0) {
45         echo "No matching maintenance requests found for you.";
46     } else {
47         echo "No maintenance requests available.";
48     }
49
50     $conn->close();
51 }
52

```

← → ⌂ localhost/CSE370_project/respond_request.php

Staff_ID: S200, Staff_role: Plumber

Request_ID: 1 || Request_description: Unga || Wage: 1111 || Required_role: Plumber.

Request_ID: 55 || Request_description: aasd || Wage: 123 || Required_role: Plumber.

#If one accepts a request then the staffs id and contact number will be attached with the request, send a notification to the #

```

17
18
19 if(isset($_POST['accept_request'])) {
20
21     $request_id = $_POST['request_id'];
22     $query1 = "SELECT Resident_ID FROM maintainence_request WHERE Request_ID = '$request_id'";
23     $result1 = $conn->query($query1);
24     if ($result1->num_rows > 0) {
25         $row = $result1->fetch_assoc();
26         $resident_id = $row['Resident_ID'];
27     }
28
29     $Notification = "Your maintenance request (Request ID: $request_id) has been accepted by the staff";
30
31     $sql1 = "INSERT INTO resident_notification (Resident_ID, Notification)
32
33     VALUES ('$resident_id', '$Notification');"
34
35     if ($conn->query($sql1) === TRUE) {
36         $sql1 = "INSERT INTO resident_notification (Resident_ID, Notification) VALUES ('$resident_id', '$Notification');"
37     }
38
39     $update_sql = "UPDATE maintainence_request SET Status = 1, a_staff_id = '$Staff_ID', s_contact='$s_contact' WHERE Request_ID = '$request_id'";
40     if ($conn->query($update_sql) === TRUE) {
41         echo "Maintenance request accepted successfully.";
42     } else {
43         echo "Error updating maintenance request: " . $conn->error;
44     }
45 }
46
47 ?>

```

#Staff can visit the requests they accepted from Accepted requests#

```

1 <?php
2
3 session_start();
4 include("dbconnect.php");
5
6 $Staff_ID = $_SESSION['Staff_ID'];
7
8
9 $sql = "SELECT Request_ID, Resident_ID, Flat_ID, Status, Request_description, Required_role, Wage FROM maintainence_request WHERE a_staff_id = '$Staff_ID' ";
10 $result = $conn->query($sql);
11
12 if ($result->num_rows > 0) {
13
14     // Individual requests
15     while ($row = $result->fetch_assoc()) {
16
17         echo "Request_ID: " . $row["Request_ID"] . " || Request_description: " . $row["Request_description"] . " || Required_role: " . $row["Required_role"] . " || Flat ID: " . $row["Flat_ID"];
18         echo "<br><br>";
19         echo "-----";
20         echo "<br><br>";
21     }
22
23 }
24
25 } else {
26     echo "No accepted maintenance requests available.";
27 }
28
29 $conn->close();
30 ?>

```

#Residents(tenant/owner) can check the status of their maintenance requests(Both pending/accepted)#+

```

3 session_start();
4 include("dbconnect.php");
5
6 $resident_ID = $_SESSION['resident_ID'];
7
8 echo "Accepted Requests";
9 echo "<br><br>";
10 echo "-----";
11 echo "<br><br>";
12 $sql1 = "SELECT * FROM maintenance_request WHERE Status = 1 ";
13 $result1 = $conn->query($sql1);
14
15 if ($result1->num_rows > 0) {
16
17     // Individual requests
18     while ($row = $result1->fetch_assoc()) {
19         if ($row["resident_ID"] == $resident_ID) {
20             echo "<form action='complete_request.php' method='post'>";
21             echo "<input type='hidden' name='request_id' value=" . $row["Request_ID"] . ">" || Request_description: " . $row["Request_description"] . ">" || Required_role: " . $row["Required_role"] . ">" || Assigned_Staff: " . $row["a_staff_Id"] . ">" || Contact_number: " . $row["a_contact"] . ">" || Wage: " . $row["Wage"] . ">" ;
22             echo "</form>";
23             echo "<br><br>";
24             echo "<form>";
25             echo "<input type='submit' name='complete_request' value='Complete'>";
26             echo "</form>";
27             echo "<br><br>";
28         }
29     }
30
31
32 } else {
33     echo "No accepted maintenance requests here.";
34 }
35 echo "<br><br>";
36 echo "-----";
37 echo "<br><br>";
38 echo "Pending Requests";
39 echo "<br><br>";
40 echo "-----";
41 echo "<br><br>";
42 echo "<br><br>";
43 $sql2 = "SELECT * FROM maintenance_request WHERE Status = 0 ";
44 $result2 = $conn->query($sql2);
45
46 if ($result2->num_rows > 0) {
47
48     // Individual requests
49     while ($row = $result2->fetch_assoc()) {
50         if ($row["resident_ID"] == $resident_ID) {
51             echo "<form action='complete_request.php' method='post'>";
52             echo "<input type='hidden' name='request_id' value=" . $row["Request_ID"] . ">" || Request_description: " . $row["Request_description"] . ">" || Required_role: " . $row["Required_role"] . ">" || Wage: " . $row["Wage"] . ">" ;
53             echo "</form>";
54             echo "<br><br>";
55         }
56     }
57
58 } else {
59     echo "No pending maintenance requests ";
60 }
61
62 $conn->close();
63 }

```

Accepted Requests

Request_ID: 55 || Request_description: aasd || Required_role: Plumber || Assigned Staff: S200 || Contact number: 1945344268 || Wage: 123.
 Complete

Pending Requests

No pending maintenance requests

#If accepted, they can click complete when that request has been completed to remove that request. This will delete that maintenance request from the database#

```

complete_request.php > ...
1  <?php
2
3  session_start();
4  include("dbconnect.php");
5  $Resident_ID = $_SESSION['Resident_ID'];
6  $request_id = $_POST['request_id'];
7  echo "$request_id";
8
9
10 if(isset($_POST['complete_request'])) {
11     $query = "DELETE FROM maintainence_request WHERE `Request_ID` = '$request_id'";
12     if ($conn->query($query) === TRUE) {
13         echo "Complete ";
14     }
15 }
16
17

```

Contribution of ID : 22141013, Name : MD. Atiq Mahbub

#Tenant_sign-up= Tenant will give Tenant ID, Name, Contact number, Password, Resident ID, Flat ID as input and the Owner ID of the flat and Resident ID of that Flat owners will automatically be fetched out from the database and all of them will be stored into the tenant table of the database. The code for this action is written in add_tenant.php file.

```

add_tenant.php > ...
5  $Tenant_ID = $_POST['Tenant_ID'];
6  $T_Flat_ID=$_POST['T_Flat_ID'];
7  $Password = $_POST['password'];
8  $Contact_num = $_POST['Contact_num'];
9  $Name = $_POST['Name'];
10
11 if(empty($T_Resident_ID) || empty($Tenant_ID) || empty($T_Flat_ID) || empty($Password) || empty($Contact_num) || empty($Name)) {
12     echo "All fields must be filled out";
13     $conn->close();
14     exit();
15 }
16
17 $check_query = "SELECT * FROM resident WHERE Resident_ID = '$T_Resident_ID'";
18 $check_result = $conn->query($check_query);
19 if ($check_result->num_rows > 0) {
20     echo "A resident with the given Resident_ID already exists";
21     $conn->close();
22     exit();
23 }
24
25 $check_query_tenant = "SELECT * FROM tenant WHERE Tenant_ID = '$Tenant_ID'";
26 $check_result_tenant = $conn->query($check_query_tenant);
27 if ($check_result_tenant->num_rows > 0) {
28     echo "A tenant with the given Tenant_ID already exists";
29     $conn->close();
30     exit();
31 }
32
33 $query = "SELECT O_Owner_ID, O_Resident_ID FROM owns WHERE O_Flat_ID = '$T_Flat_ID'";
34 $result = $conn->query($query);
35 if ($result->num_rows > 0) {
36     $row = $result->fetch_assoc();
37     $T_Owner_ID = $row['O_Owner_ID'];
38     $O_Resident_ID = $row['O_Resident_ID'];
39 } else {
40     echo "No records found for the given T_Flat_ID";
41     $conn->close();
42     exit();
43 }
44
45 echo "<br>";
46
47 $sql1 = "INSERT INTO resident (Resident_ID, Password, Name, Contact_num)
VALUES ('$T_Resident_ID', '$Password', '$Name', '$Contact_num')";
48 $sql2 = "INSERT INTO tenant (T_Resident_ID,T_Owner_ID,T_Flat_ID,O_Resident_ID)
VALUES ('$T_Resident_ID', '$Tenant_ID', '$T_Owner_ID', '$O_Resident_ID')";
49
50 if ($conn->query($sql1) === TRUE && $conn->query($sql2) === TRUE) {
51     echo "New records created successfully";
52 } else {
53     echo "Error: " . $conn->error;
54 }
55
56 $conn->close();
57
58

```

Show all | Number of rows: 25 ▾

Extra options

	<input type="button" value="←"/>	<input type="button" value="→"/>	<input type="button" value="▼"/>	T_Resident_ID	Tenant_ID	T_Owner_ID	T_Flat_ID	O_Resident_ID
<input type="checkbox"/>				R400	T100	O100	F2	R100
<input type="checkbox"/>		With selected:						

Show all | Number of rows: 25 ▾

Query results operations

#Paying rent= The tenant will input the month. And the owner of the flat will get a notification. We have a resident_notification table in the database after paying the rent a notification will be inserted into the resident_notification table where the owner will get to see which tenant_id had paid the rent for which month.

```

pay_rent.php > ...
1  <?php
2  session_start();
3  require_once("dbconnect.php");
4
5  if (!isset($_SESSION['Resident_ID']) || !isset($_POST['Month']) || empty($_POST['Month'])) {
6      echo "Required field is empty.";
7      exit();
8  }
9
10 $Resident_ID = $_SESSION['Resident_ID'];
11 $Month = $_POST['Month'];
12
13 // Fetch O_Resident_ID based on O_Flat_ID
14 $query1 = "SELECT Tenant_ID,T_Flat_ID,O_Resident_ID FROM tenant WHERE T_Resident_ID = '$Resident_ID'";
15 $result1 = $conn->query($query1);
16
17 if ($result1->num_rows > 0) {
18     $row = $result1->fetch_assoc();
19     $O_Resident_ID = $row['O_Resident_ID'];
20     $N_Tenant_ID= $row['Tenant_ID'];
21     $N_Flat_ID= $row['T_Flat_ID'];
22 } else {
23     echo "No results found for the given Resident_ID";
24     exit();
25 }
26
27 // Assuming you have a template for the notification
28 $Notification = "$N_Tenant_ID has paid the rent of $N_Flat_ID for $Month";
29
30 $sql1 = "INSERT INTO resident_notification (Resident_ID, Notification)
VALUES ('$O_Resident_ID', '$Notification');";
31
32 if ($conn->query($sql1) === TRUE) {
33     echo "<br>Rent has been paid";
34 } else {
35     echo "Error inserting notification: " . $conn->error;
36 }
37
38 $conn->close();
39 ?>

```

Server: 127.0.0.1 » Database: cse370 » Table: resident_notification

Profiling [Edit inline] [Edit] [Explain SQL] [Create]

Show all | Number of rows: 25

Extra options

	Resident_ID	notification
<input type="checkbox"/>	Edit Copy Delete	R100 T100 has paid the rent of F2 for July
<input type="checkbox"/>	Edit Copy Delete	R100 T100 has paid the rent of F2 for March

#Leaves = When the tenant will leave the flat then the person will press the leaves button and it will remove the data for the tenant based on the tenant's resident id. The data will be deleted from the database based on the tenant's resident id. And the owner will get a notification. Where he will know which tenant left from which flat. The notification will be inserted into the resident_notification table of the database once leaves button is pressed.

```

leaves.php > ...
1  <?php
2  session_start();
3  require_once("dbconnect.php");
4
5  // Retrieve T_Resident_ID from the session
6  $l_Resident_ID = $_SESSION['Resident_ID'];
7
8  if ($l_Resident_ID === '') {
9      echo "Error: T_Resident_ID not found in session.";
10     exit;
11 }
12
13 $sql1="SELECT Tenant_ID,O_Resident_ID,T_Flat_ID from tenant where T_Resident_ID='$l_Resident_ID'";
14 $result = $conn->query($sql1);
15 if ($result->num_rows > 0) {
16     $row = $result->fetch_assoc();
17     $tenant_id = $row['Tenant_ID'];
18     $resident_id = $row['O_Resident_ID'];
19     $flat_id = $row['T_Flat_ID'];
20 } else {
21     echo "No records found for the given T_Flat_ID";
22     $conn->close();
23     exit();
24 }
25
26 $Notification = "$tenant_id has left the flat (Flat No: $flat_id)";
27 $sql2= "INSERT INTO resident_notification (Resident_ID, Notification)
28 VALUES ('$resident_id', '$Notification')";
29 if ($conn->query($sql2) === TRUE) {
30     $sql2 = "INSERT INTO resident_notification (Resident_ID, Notification) VALUES ('$resident_id', '$Notification')";
31 }
32
33 // Perform deletion based on $T_Resident_ID
34 $sql = "DELETE FROM resident WHERE Resident_ID = '$l_Resident_ID'";
35
36 if ($conn->query($sql) === TRUE) {
37     echo "<br>Good Bye";
38 } else {
39     echo "Error: " . $conn->error;
40 }
41
42 $conn->close();
43 
```

 Edit  Copy  Delete R200

T101 has left the flat (Flat No: F4)

#Maintenance request= when tenant click on the button maintenance request the user will get to see two buttons one is make a new request and another one is make a new request another one is my requests. If the person click on make a request then the person can fill up all the information like request id,request description and select the required role and flat id. Then all the data will be added into maintenance_request table of the database.

```

1 <?php
2 session_start();
3 require_once("dbconnect.php");
4 $flag=0;
5 $flag1=0;
6 $Resident_ID=$_SESSION['Resident_ID'];
7 $Request_ID = $_POST['Request_ID'];
8 $Flat_ID = $_POST['Flat_ID'];
9 $Required_role = $_POST['Required_role'];
10 $Request_description = $_POST['Request_description'];
11 $Wage = $_POST['Wage'];
12 if (empty($Flat_ID) or empty($Request_ID) or empty($Required_role) or empty($Request_description)) {
13     echo "required field is empty..";
14 }
15 else {
16     $query="SELECT O_Resident_ID FROM flat_owner where O_Resident_ID='$Resident_ID'";
17     $result = $conn->query($query);
18     if ($result->num_rows > 0) {
19         $flag=1;
20     } else {
21         $flag=0;
22     }
23     if ($flag==1) {
24         $query1="SELECT O_Flat_ID,T_Flat_ID FROM (owns left join tenant on owns.O_Flat_ID=tenant.T_Flat_ID) where owns.O_Resident_ID='$Resident_ID'";
25         $result1 = $conn->query($query1);
26         if ($result1->num_rows > 0) {
27             while ($row1 = $result1->fetch_assoc()) {
28                 if ($row1['O_Flat_ID']===$Flat_ID && $row1['T_Flat_ID']==NULL) {
29                     $flag1=1;
30                     $sql = "INSERT INTO maintenance_request (Request_ID,Resident_ID,Flat_ID,Status,Request_description,Required_role,Wage)
31                         VALUES ('$Request_ID', '$Resident_ID', '$Flat_ID', 0,'$Request_description', '$Required_role', '$Wage')";
32                     if ($conn->multi_query($sql) == TRUE) {
33                         echo "New request created successfully";
34                     } else {
35                         echo "Error: " . $sql . "<br>" . $conn->error;
36                     }
37                     $conn->close();
38                     break;
39                 }
40             }
41             if ($flag1==0) {
42                 echo "Wrong Flat_ID";
43             }
44         }
45     }
46     if ($flag1==1) {
47         echo "Wrong Flat_ID. Enter again";
48     }
49 }
50 }
51 } elseif ($flag==0) {
52     $query2="SELECT T_Flat_ID FROM tenant where T_Resident_ID='$Resident_ID'";
53     $result2 = $conn->query($query2);
54     if ($result2->num_rows > 0) {
55         $row2 = $result2->fetch_assoc();
56         if ($row2['T_Flat_ID']===$Flat_ID) {
57             $sql= "INSERT INTO maintenance_request (Request_ID, Resident_ID,Flat_ID,Status,Request_description,Required_role,Wage)
58                 VALUES ('$Request_ID', '$Resident_ID' , '$Flat_ID' , 0, '$Request_description' , '$Required_role' , '$Wage')";
59             if ($conn->multi_query($sql) == TRUE) {
60                 echo "New request created successfully";
61             } else {
62                 echo "Error: " . $sql . "<br>" . $conn->error;
63             }
64             $conn->close();
65         } else {
66             echo "Wrong Flat_ID. Enter again.";
67         }
68     }
69 }
70 }
71 } !?
72 } ???
73 
```

Also the user can see the requests which are pending and can press into complete and delete the request based on the request id. The backend code is in accepted_resident.php

```
accepted_resident.php > ...
1 session_start();
2 include("dbconnect.php");
3 $resident_ID = $_SESSION['Resident_ID'];
4 $conn = &$_SESSION['conn'];
5 echo "<br><br>";
6 echo "<br><br>";
7 echo "<br><br>";
8 $sql1 = "SELECT * FROM maintenance_request WHERE Status = 1 ";
9 $result1 = $conn->query($sql1);
10 if ($result1->num_rows > 0) {
11
12     while ($row = $result1->fetch_assoc()) {
13         if ($row['Resident_ID'] == $resident_ID) {
14             echo "<Request_ID> . $row['Request_ID'] . " || Request_description: " . $row['Request_description'] . " || required_role: " . $row['Required_role'] . " || Assigned Staff: " . $row['A_Staff_Id'] . " || Contact number: " . $row['A_contact'] . " || Wage: " . $row['Wage'] . " || Status: " . $row['Status'];
15             echo "<form action='complete_request.php' method='post'>";
16             echo "<input type='hidden' name='request_id' value=" . $row['Request_ID'] . ">";
17             echo "<input type='submit' name='complete_request' value='Complete'>";
18             echo "<br><br>";
19             echo "<br><br>";
20             echo "<br><br>";
21         }
22     }
23 } else {
24     echo "No accepted maintenance requests here.";
25 }
26 echo "<br><br>";
27 echo "<br><br>";
28 echo "<br><br>";
29 echo "<br><br>";
30 echo "<br><br>";
31
32 $sql2 = "SELECT * FROM maintenance_request WHERE Status = 0 ";
33 $result2 = $conn->query($sql2);
34 if ($result2->num_rows > 0) {
35
36     // Individual requests
37     while ($row = $result2->fetch_assoc()) {
38         if ($row['Resident_ID'] == $resident_ID) {
39             echo "<Request_ID> . $row['Request_ID'] . " || Request_description: " . $row['Request_description'] . " || required_role: " . $row['Required_role'] . " || Wage: " . $row['Wage'] . " || Status: " . $row['Status'];
40             echo "<br><br>";
41         }
42     }
43 } else {
44     echo "No pending maintenance requests ";
45 }
46
47 $conn->close();
48 ?>
```

#Resident notification= resident will be able to see all the notification by clicking on it.
When resident will click on resident notification then all the data based on the resident id will be shown. And if the person want to clear notification then the person can press onto clear all notification where all the notification will be deleted based on the resident id and will be redirected to cleared_notifications.html page where the message will be all the notifications has been cleared.

```
resident_notification.php > ...
1 require_once("dbconnect.php");
2
3 $N_Resident_ID = $_SESSION['Resident_ID'];
4
5 $query1 = "SELECT notification FROM resident_notification WHERE Resident_ID = '$N_Resident_ID'";
6 $result1 = $conn->query($query1);
7
8 $hasNotifications = false;
9
10 if ($result1->num_rows > 0) {
11     $hasNotifications = true;
12     while($row = $result1->fetch_assoc()) {
13         echo "<br>". $row['notification'] . "<br>";
14     }
15 } else {
16     echo "<br>". "No notification for you";
17     exit();
18 }
19
20 if(isset($_POST['clear_all'])) {
21     $delete_query = "DELETE FROM resident_notification WHERE Resident_ID = '$N_Resident_ID'";
22     if ($conn->query($delete_query) === TRUE) {
23         header('Location: cleared_notifications.html');
24         exit();
25     } else {
26         echo "Error clearing notifications: " . $conn->error;
27     }
28 }
29
30
31 $conn->close();
32 ?>
33
34
35 <?php if ($hasNotifications): ?>
36 <br>
37 <form method="post">
38 |   <input type="submit" name="clear_all" value="Clear All Notifications">
39 </form>
40 <?php endif; ?>
```

Source Code Repository

https://drive.google.com/drive/folders/14MUDfHpeXESyX46Vtl9BGZCskYc-mQyc?usp=drive_link

Conclusion

In conclusion, the society management system we have developed is a comprehensive tool that caters to various aspects of society management operations. It makes the life of residents and society staff much easier. The code snippets and databases ensure transparency and ease of modification.

References

<https://database.guide/database-relationships-explained/>

https://www.w3schools.com/howto/howto_css_login_form.asp

https://www.w3schools.com/howto/howto_css_signup_form.asp

<https://www.w3schools.com/php/>

https://www.w3schools.com/php/php_mysql_delete.asp

https://www.w3schools.com/sql/sql_insert.asp

https://www.w3schools.com/tags/tag_button.asp

<https://www.w3schools.com/MySQL/default.asp>

https://www.w3schools.com/asp/ado_connect.asp