ITE 1008 – J-COMPONENT: OPEN SOURCE PROGRAMMING FINAL PROJECT REVIEW:

PROPERTY RENTAL WEBSITE

FACULTY : JAYAKUMAR S.   SLOT : B2+TB2

GROUP MEMBERS:

(1) NIBRAS IBRAHIM MOHAMMED ALI (19BIT0351)
(2) PARAS DANG (19BIT0378)
(3) SUKANT JHA (19BIT0359)
(4) ADITYA SUNIL MISHRA (19BIT0336)
(5) UTKARSH GOYAL (19BIT0402)

ABSTRACT:

❼ Users looking for places to rent in their own city or for when they travel, often find it hard to search for the kind of properties they require and hence, an application is required that would cater to the needs of such users.

❼ Users tend to newspaper adds, local brokers and property finding applications for information about available properties

❼ A secure website that maintains transparency and preserves user information is the best technique for the required task of property finding because mobile applications need constant updates, they may have malicious software and might misuse user's information (email/social media accounts, address and phone number) whereas local brokers and agencies are not very trustable.

❼ The technique that we use in our website only asks the user to create a local id for record purposes (login/log out and search history) and thus ensures that user's data is safe and allows for efficient task administration.

❼ We expect to give the users a platform for finding out the properties they require without having to worry about safety of their information and hence, help them out in lodging in their own city, for when they move to a new city or travel purposes.

INTRODUCTION:

This Property Rental Application is a website which serves people to find properties or homes in a locality. The website is made on localhost and phpMyAdmin. The front end of the website is made with HTML,CSS and JavaScript. The user can sign up to the website to make his account and then login to access the features. After logging in, he/she can add rooms or properties and set them as vacant or occupied with even the images of the property (by using uploading images with php). The home page of user login will display the kind of number of properties he/she have added to the website's database. The user can also file a complaint which can be seen by the admin. The user can edit or delete or update his/her property. Then we come to the admin log in. The admin login is a unique login stored at the database. The admin has access over the whole application. The admin after logging in can view the total no. of users registered and total number of properties registered on the dashboard. The admin can edit, delete or modify the property details of any user. The admin can also file a complaint over a property for a specific user. All the complaints filled by the users are available and visible to the admin. Further admin can send messages regarding complaints or general notices through php email protocol. The website is fired up by WampServer and localhost. The database is stored at phpMyAdmin. It can be viewed from over there. This application is very user friendly and can come very handy.
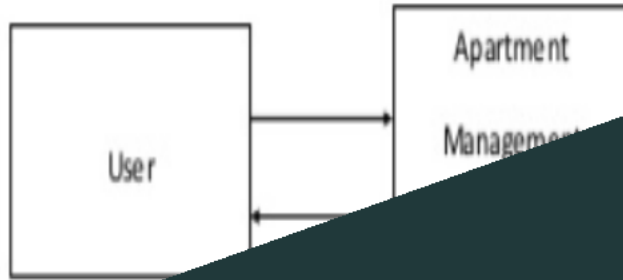
PROBLEM STATEMENT:

To provide people a platform to search for rental apartments and properties when they move to

different cities temporarily or permanently. The user can search for required property through the use of this website.
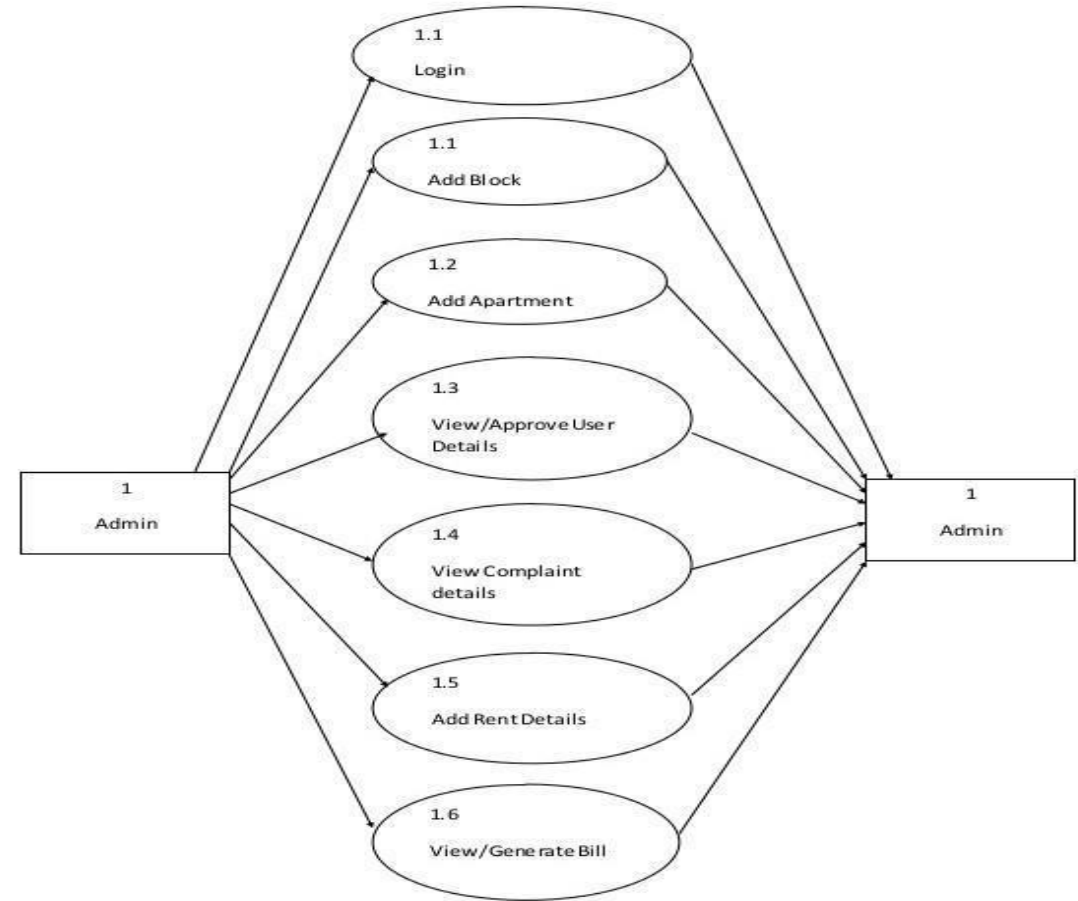
PROCESS FLOW DIAGRAMS:

0TH LEVEL

1ST LEVEL

MODULES/FUNCTIONS:

❼ TEAM LEADER: PARAS DANG

❼ DATABASE CREATOR: SUKANT JHA, UTKARSH GOYAL

❼ SCRIPTWRITER: ADITYA S. MISHRA

❼W E B P A G E DESIGNER: NIBRAS I.M. ALI

1.TEAM LEADER WOULD PRESENT THE WORKING OF THE WHOLE SYSTEM AND EXPLAIN THE BASICS AND WORKING OF THE PROJECT.

2.THE DATABASE CREATOR WOULD USE MYSQL TO CREATE AND MANAGE THE DATABASE CONTAINING THE INFORMATION ABOUT THE USERS AND PROPERTIES.

3. THE SCRIPTWRITER WOULD HANDLE THE SCRIPTING PART OF THE WEBSITE USING PHP, JAVASCRIPT AND OTHER SCRIPTING LANGUAGES.

4. THE WEB PAGE DESIGNER WOULD CREATE THE DESIGN AND LAYOUT OF THE WEBSITE AND WEB PAGES.

E-R DIAGRAM:
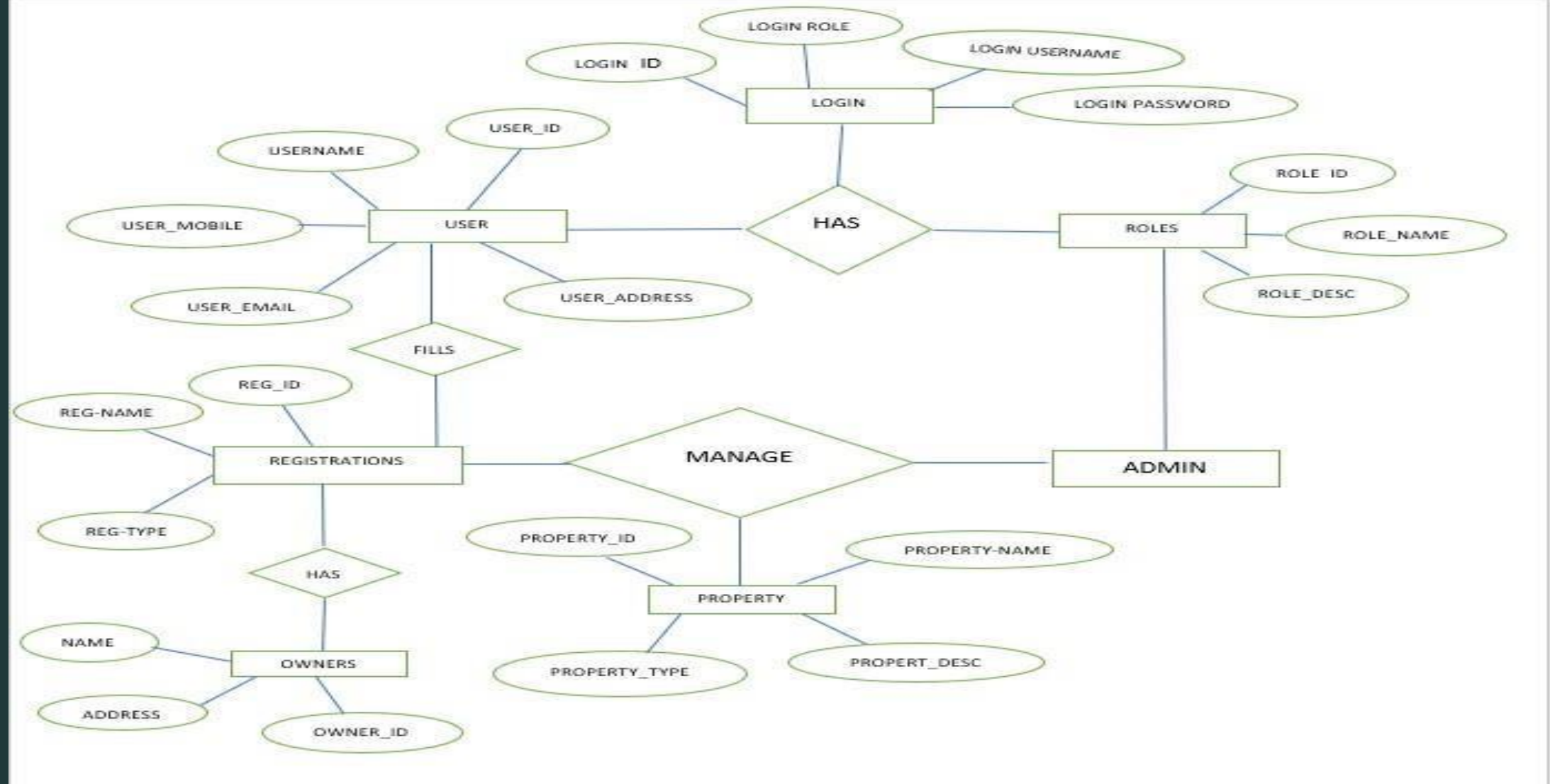
DATABASE DESIGN:

The database for the rental property management system comprises of 8 tables in total, they are:

User table:

This table contains all the details the user submits to the website while registering for the first time. The information present in this table is visible only to the admin and the user himself, no one else has access to the information in this table. The primary key of the table is user_id and this attribute is used as a foreign key in three other tables.

Login table:

This table consists of attributes login_id password and username as a foreign key from table user. This table is mainly used for storing the password of the registered users and is checked through when a password is entered. The table also consists of the role of each user on the website.

Roles table:

This is the table that describes the role of each category of users on the website. The primary key is role_id role description and role name are the other attributes of this table.

Permissions table:

Each user of the website has different levels of permission as per their role In the website. These details are stored in table permissions, the primary key is per_id and other attributes include permission name permission id and permission module.

Table buyers:

It contains all the details of buyers. The primary key is buyer id and all the other attributes include personal information of the buyer, the table also stores passwords of the buyer accounts.

Registrations table:

Each registration on the website is kept track of through this table. All the information of this table would be visible in the admin dashboard, the admin also has the power to edit the details of this table. The primary key of this table is reg_id and other attributes include registration name, type and description.

Sellers table:

Like the buyer table, this table contains details of the seller. Some of these details like contact number would be visible to someone who has not even registered on the website, provided he/she has registered their property with the website.

Property table:

One of the most important tables in the database. The details in it are displayed to each and every category of users of the website. Only the admin and the owner are authorized to edit information in this table. Primary key id pro_id and other details include property name type and description. The table also has a foreign key of seller_id.

CONCLUSION:

❑ This Web application helps user to register individual home or apartment to assist you in finding the perfect rental home or property. Also you can find your next rental from search view in your targeted area.

❑ Brief overview of the technology:

❼Front end: HTML, CSS, JavaScript
1.HTML: HTML is used to create and save web document. E.g. Notepad/Notepad++
2.CSS : (Cascading Style Sheets) Create attractive Layout
3.Bootstrap : responsive design mobile friendly site
4.JavaScript: it is a programming language, commonly use with web browsers.

❼Back end: PHP, MySQL
1.PHP: Hypertext Preprocessor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open source software.
2.MySQL: MySQL is a database, widely used for accessing querying, updating, and managing data in databases.

❑ Software Requirement(any one)
• WAMP Server
• XAMPP Server
• MAMP Server
• LAMP Server

REFERENCES:

(1)W3SCHOOLS.COM

(2)GEEKS FOR GEEKS

(3)TUTORIALS POINT

(4)FREECODECAMP.ORG

(5)EDUREKA

Welcome To Property Rental Registration!

IT'S NICE TO SEE YOU

Logo/Home   LOGIN   *Logo/Home*   ELLIOT   LOGOUT

Register

Full Name

Full Name

User Name

User Name

Mobile

10 digit mobile number

Email

Email

Password

Password

Confirm Password

Confirm Password

Submit

Dash board

| Home |
| Register |
| Details/Update |

Registered Rooms: 0

SOURCE CODE:

Index.php

```php
<?php
 require 'config/config.php';
 $data = [];

 if(isset($_POST['search'])) {
   // Get data from FORM
   $keywords = $_POST['keywords'];
   $location = $_POST['location'];

   //keywords based search
   $keyword = explode(',', $keywords);
   $concats = "(";
   $numItems = count($keyword);
   $i = 0;
   foreach ($keyword as $key => $value) {
     # code...
     if (++$i === $numItems){
       $concats .= "'".$value."'";
     }else{
       $concats .= "'".$value."',";
     }
   }
   $concats .= ")";
```

```php
//end of keywords based search
 //location based search
 $locations = explode(',', $location);
 $loc = "(";
 $numItems = count($locations);
 $i = 0;
 foreach ($locations as $key => $value) {
   # code...
   if(++$i === $numItems){
     $loc .= "'".$value."'";
   }else{
     $loc .= "'".$value."',";
   }
 }
 $loc .= ")";
```

```php
//end of location based search

try {

$stmt = $connect->prepare("SELECT * FROM room_rental_registrations_apartment WHERE country IN $concats OR country IN
    $loc OR state IN $concats OR state IN $loc OR city IN $concats OR city IN $loc OR address IN $concats OR address IN $loc OR
    rooms IN $concats OR landmark IN $concats OR landmark IN $loc OR rent IN $concats OR deposit IN $concats");

    $stmt->execute();

    $data2 = $stmt->fetchAll(PDO::FETCH_ASSOC);

$stmt = $connect->prepare("SELECT * FROM room_rental_registrations WHERE country IN $concats OR country IN $loc OR state
    IN $concats OR state IN $loc OR city IN $concats OR city IN $loc OR rooms IN $concats OR address IN $concats OR address IN
    $loc OR landmark IN $concats OR rent IN $concats OR deposit IN $concats");

    $stmt->execute();

    $data8 = $stmt->fetchAll(PDO::FETCH_ASSOC);

    $data = array_merge($data2, $data8);

}catch(PDOException $e){

    $errMsg = $e->getMessage();

  }

 }

?>
```

```html
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <meta name="description" content="">
  <meta name="author" content="">
  <title>App</title>
  <link href="assets/plugins/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/plugins/font-awesome/css/font-awesome.min.css" rel="stylesheet" type="text/css">
  <link href="https://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet" type="text/css">
  <link href='https://fonts.googleapis.com/css?family=Kaushan+Script' rel='stylesheet' type='text/css'>
  <link href='https://fonts.googleapis.com/css?family=Droid+Serif:400,700,400italic,700italic' rel='stylesheet' type='text/css'>
  <link href='https://fonts.googleapis.com/css?family=Roboto+Slab:400,100,300,700' rel='stylesheet' type='text/css'>
  <link href="assets/css/rent.css" rel="stylesheet">
  <link href="assets/css/style.css" rel="stylesheet">
 </head>
```

```html
<body id="page-top">
  <!-- Navigation -->
  <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
   <div class="container">
    <a class="navbar-brand js-scroll-trigger" href="#page-top">Infinity home</a>
    <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle navigation">
     Menu
     <i class="fa fa-bars"></i>
    </button>
    <div class="collapse navbar-collapse" id="navbarResponsive">
     <ul class="navbar-nav text-uppercase ml-auto">

      <li class="nav-item">
       <a class="nav-link js-scroll-trigger" href="#search">Search</a>
      </li>
```

```html
        <li class="nav-item">
            <a class="nav-link" href="./auth/register.php">Register</a>
        </li>


        </ul>
      </div>
    </div>
</nav>
<!-- Header -->
<header class="masthead">
  <div class="container">
    <div class="intro-text">
      <div class="intro-lead-in">Welcome To Property Rental Registration!</div>
      <div class="intro-heading text-uppercase">It's Nice To See You<br></div>
    </div>
  </div>
</header>
```

```html
<!-- Search -->
<section id="search">
 <div class="container">
  <div class="row">
   <div class="col-lg-12 text-center">
    <h2 class="section-heading text-uppercase">Search</h2>
    <h3 class="section-subheading text-muted">Search rooms or homes for rent.</h3>
   </div>
  </div>
  <div class="row">
   <div class="col-md-12">
    <form action="" method="POST" class="center" novalidate>
     <div class="row">
      <div class="col-md-6">
       <div class="form-group">
        <input class="form-control" id="keywords" name="keywords" type="text" placeholder="Key words(Ex: 1bhk,rent..)" required data-validation-required-message="Please enter keywords">
        <p class="help-block text-danger"></p>
       </div>
      </div>
```

```html
          <div class="col-md-4">

            <div class="form-group">

              <input class="form-control" id="location" type="text" name="location" placeholder="Location" required data-validation-required-message="Please
enter location.">

              <p class="help-block text-danger"></p>

            </div>

          </div><div class="col-md-2">

            <div class="form-group">

              <button id="" class="btn btn-success btn-md text-uppercase" name="search" value="search" type="submit">Search</button>

            </div>

          </div>

        </div>

      </form>
```
```php
<?php

    if(isset($errMsg)){

      echo '<div style="color:#FF0000;text-align:center;font-size:17px;">'.$errMsg.'</div>';

    }
```

```php
if(isset($errMsg)){

    echo '<div style="color:#FF0000;text-align:center;font-size:17px;">'.$errMsg.'</div>';

    }

    if(count($data) !== 0){

    echo "<h2 class='text-center'>List of Apartment Details</h2>";

    }else{

    //echo "<h2 class='text-center' style='color:red;'>Try Some other keywords</h2>";

    }

    ?>

    <?php

    foreach ($data as $key => $value) {

    echo '<div class="card card-inverse card-info mb-3" style="padding:1%;">

        <div class="card-block">';

        // echo '<a class="btn btn-warning float-right" href="update.php?id='.$value['id'].'&act=';if(isset($value['ap_number_of_plats'])){ echo "ap"; }else{ echo "indi"; } echo '">Edit</a>';

        echo '<div class="row">

          <div class="col-4">

          <h4 class="text-center">Owner Details</h4>';

          echo '<p><b>Owner Name: </b>'.$value['fullname'].'</p>';

          echo '<p><b>Mobile Number: </b>'.$value['mobile'].'</p>';

          echo '<p><b>Alternate Number: </b>'.$value['alternat_mobile'].'</p>';

          echo '<p><b>Email: </b>'.$value['email'].'</p>';

          echo '<p><b>Country:  </b>'.$value['country'].'</p><p><b> State: </b>'.$value['state'].'</p><p><b>  City: </b>'.$value['city'].'</p>';

          if ($value['image'] !== 'uploads/') {
```

```php
# code...

        echo '<img src="app/'.$value['image'].'" width="100">';

     }echo '</div>

  <div class="col-5">

  <h4 class="text-center">Room Details</h4>';

   // echo '<p><b>Country: </b>'.$value['country'].'<b> State: </b>'.$value['state'].'<b> City: </b>'.$value['city'].'</p>';

   echo '<p><b>Plot Number: </b>'.$value['plot_number'].'</p>';


   if (isset($value['sale'])){

    echo '<p><b>Sale:  </b>'.$value['sale '].'</p>';

   }


    if (isset($value['apartment_name']))

     echo '<div class="alert alert-success" role="alert"><p><b>Apartment   Name: </b>'.$value['apartme nt_name'].'</p></div>';


    if (isset($value['ap_number_of_plats']))

     echo '<div class="alert alert-success" role="alert"><p><b>Plat   Number: </b>'.$value['ap_numbe r_of_plats'].'</p></div>';


   echo '<p><b>Available   Rooms: </b>'.$value['rooms'].'</p>';

   echo '<p><b>Address: </b>'.$value['address '].'</p><p><b> Landmark: </b>'.$value['land mark'] .'</p>';

  echo '</div>

  <div class="col-3">

  <h4>Other   Details</h4>';

  echo '<p><b>Accommodation: </b>'.$value['accommodat ion'] .'</p>';

  echo '<p><b>Description:  </b>'.$value['descript ion'] .'</p>';

  if ($value['vacant'] ==0){

    echo '<div class="alert alert-danger" role="alert"><p><b>Occupied</b></p></div>';
```

```html
<!-- Footer -->

<footer style="background-color: #ccc;">

  <div class="container">

   <div class="row">

   <div class="col-md-4">

    <span class="copyright"></span>

   </div>

   <div class="col-md-4">

    <ul class="list-inline social-buttons">

     <li class="list-inline-item">

      <a href="#">

       <i class="fa fa-twitter"></i>

      </a>

     </li>

     <li class="list-inline-item">

      <a href="#">

       <i class="fa fa-facebook"></i>

      </a>

     </li>

     <li class="list-inline-item">

      <a href="#">

       <i class="fa fa-linkedin"></i>

      </a>

     </li>

    </ul>

   </div>

  </div>
```

```html
<!-- Bootstrap core JavaScript -->

<script src="assets/plugins/jquery/jquery.min.js"></script>

<script src="assets/plugins/jquery-easing/jquery.easing.min.js"></script><script src="assets/js/jqBootstrapValidation.js"></script>

<script src="assets/js/contact_me.js"></script>

<script src="assets/js/rent.js"></script>

</body>

</html>
```

Login.php

```php
<?php

  require '../config/config.php'

  if (isset($_POST['login'])) {

    // Get data from FORM

    $username = $_POST['username'];

    $email = $_POST['username'];

    $password = $_POST['password'];

    try {

      $stmt = $connect->prepare('SELECT * FROM users WHERE username = :username OR email = :email');

      $stmt->execute(array(

        ':username' => $username,

        ':email' => $email

        ));

      $data = $stmt->fetch(PDO::FETCH_ASSOC);

      if ($data == false){

        $errMsg = "User $username not found.";

      }

      else {

        if (md5($password) == $data['password']) {$_SESSION['id'] = $data['id'];$_SESSION['username'] = $data['username'] $_SESSION[fullname'] = $data['fullname'];
```

```php
        else
                $errMsg = 'Password not match.';
            }
        }
        catch(PDOException $e) {
            $errMsg = $e->getMessage();
        }
    }
?>
```

```php
<?php include '../include/header.php';?>
  <!-- Services -->
  <nav class="navbar navbar-expand-lg navbar-dark" style="background-color:#212529;" id="mainNav">
    <div class="container">
      <a class="navbar-brand js-scroll-trigger" href="../index.php">Logo/Home</a>
      <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle navigation"> Menu
        <i class="fafa-bars"></i>
      </button>
      <div class="collapse navbar-collapse" id="navbarResponsive">
        <ul class="navbar-nav text-uppercase ml-auto">
          <li class="nav-item">
            <!-- <a class="nav-link" href="login.php">Login</a> -->
          </li>
          <li class="nav-item">
            <a class="nav-link" href="register.php">Register</a>
          </li>
```

```html
<li class="nav-item">

    <a class="nav-link" href="register.php">Register< /a>

  </li>

 </ul>

 </div>

</div>

</nav>


<section id="services">

  <div class="container">

   <div class="row">

    <div class="col-md-4 mx-auto">

      <div class="alert alert-info" role="alert">

        <?php

        if (isset($errMsg)){

          echo '<div style="color:#FF0000;text-align:center;font-size:17p x;">'.$e rrMsg .'</div>';

         }

       ?>

        <h2 class="text-center">Login</h2>

       <form action="" method="post">

        <div class="form-group">

          <label for="exampleInputEmail1">Email  Address/User  Name</label>

          <input type="text" class="form-control" id="exampleInputEmail1"  placeholder="Email"  name="username"  required>

        </div>

        <div class="form-group">

          <label for="exampleInputPassword1">Password</label>
```

```html
<li class="nav-item">

        <a class="nav-link" href="register.php">Register</a>

      </li>

    </ul>

  </div>

 </div>

</nav>


<section id="services">

  <div class="container">

    <div class="row">

     <div class="col-md-4 mx-auto">

       <div class="alert alert-info" role="alert">

        <?php

         if (isset($errMsg)){

           echo '<div style="color:#FF0000;text-align:center;font-size:17px;">'.$errMsg.'</div>';

         }

        ?>

         <h2 class="text-center">Login</h2>

       <form action="" method="post">

        <div class="form-group">

         <label for="exampleInputEmail1"> Email Address/User Name</label>

         <input type="text" class="form-control" id="exampleInputEmail1" placeholder="Email" name="username" required>

        </div>

        <div class="form-group">

         <label for="exampleInputPassword1">Password</label>
```

```php
                ?>

                    <h2 class="text-center">Login</h2>
                <form action="" method="post">
                    <div class="form-group">
                        <label for="exampleInputEmail1">Email Address/User Name</label>
                        <input type="text" class="form-control" id="exampleInputEmail1" placeholder="Email" name="username" required>
                    </div>
                    <div class="form-group">
                        <label for="exampleInputPassword1">Password</label>
                        <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Password" name="password" required>
                    </div>
                    <button type="submit" class="btn btn-primary" name='login' value="Login">Submit</button>
                </form>
            </div>
        </div>
        </div>
    </div>
    </section>
<?php include '../include/footer.php';?>
```