

Assignment3_BIT302_I Kadek Bagus Paradhita Utama(E1700866)_I Nengah Wahyudi Setiawan(E1700868)

by Wahyudi Setiawan

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BIT302
SOFTWARE ENGINEERING
ASSIGNMENT 3



Project Title:
Information System for MHS

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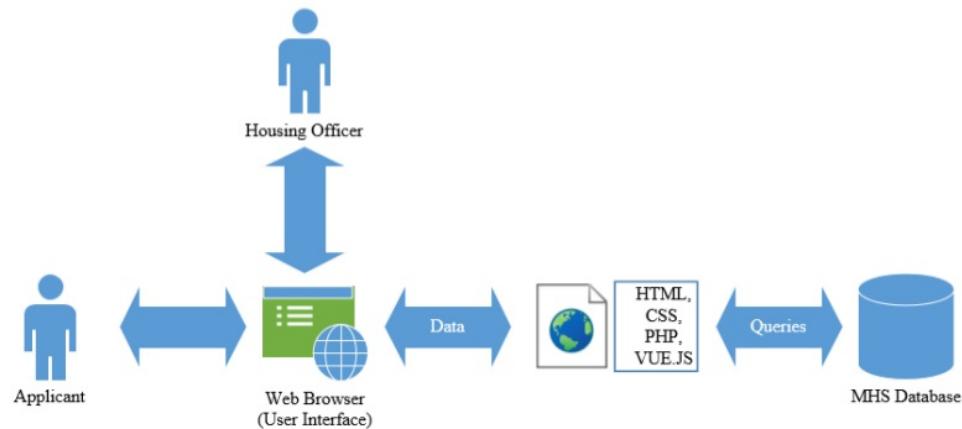
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Problems faced in Iteration 1 and the solutions

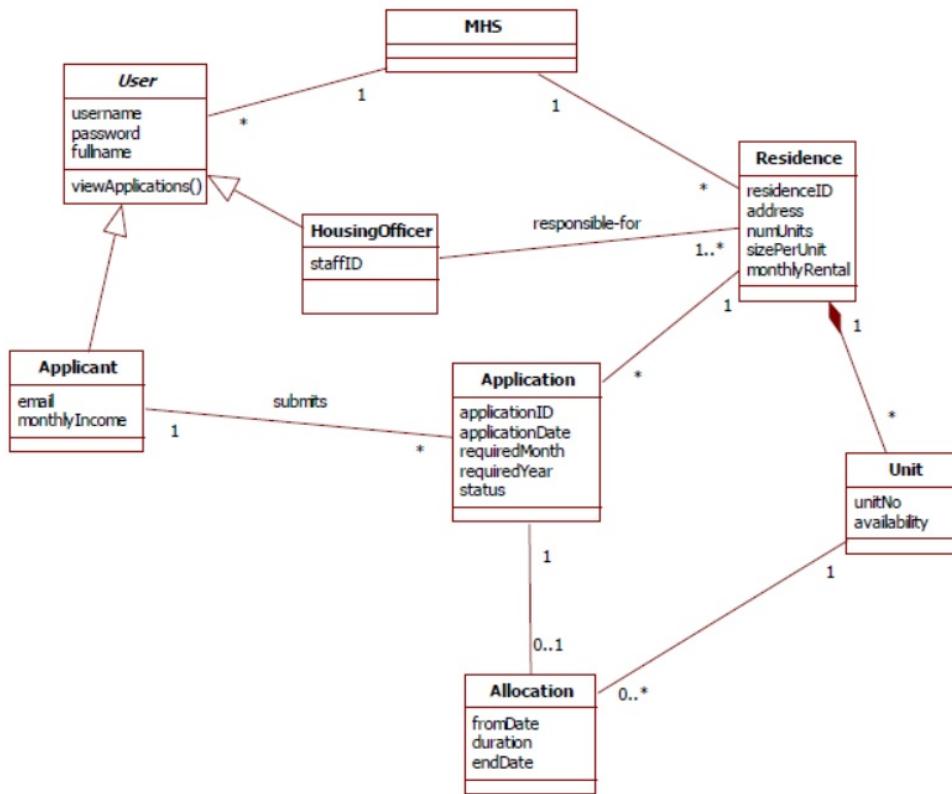
In the previous assignment, we have not tried all the existing use cases. This time we will try to resolve use cases that were not resolved in the previous assignments. As for some of the fundamental causes of our problem, first, the world is currently experiencing an outbreak of the corona virus (COVID-19) which makes it difficult for us to schedule meetings to discuss the execution of this task. Secondly, due to the limited ability and knowledge we have about this task, we cannot perform this task to the fullest, especially because it is difficult to communicate with the teammate, because we are separated by distance and the teammate is not always active on social media to be contacted, so in the process of doing this task, we must do it independently with a very minimal level of discussion when compared to when we can meet face to face, even though this is actually a group assignment. Third, we also don't fully have a lot of free time at home, even though the government has actually recommended self-isolation, because we also have internal affairs in our family as a result of the coronavirus outbreak (COVID-19) which has various negative impacts on the lives of people including in our family which makes us have many burdens in mind.

However, in this assignment we have tried our best, despite the limitations that are actually known and felt by all people in all parts of the world. We try to push ourselves harder to exceed our limits as humans in the midst of this epidemic by speeding up our work until the wee hours of the morning and reducing our sleep due to a long period of self-isolation and other activities we have to do in the morning and afternoon. Trying to have discussions online, although sometimes having to wait for a very slow response from the teammate and because of each other's activities, so much time is wasted and workmanship becomes ineffective.

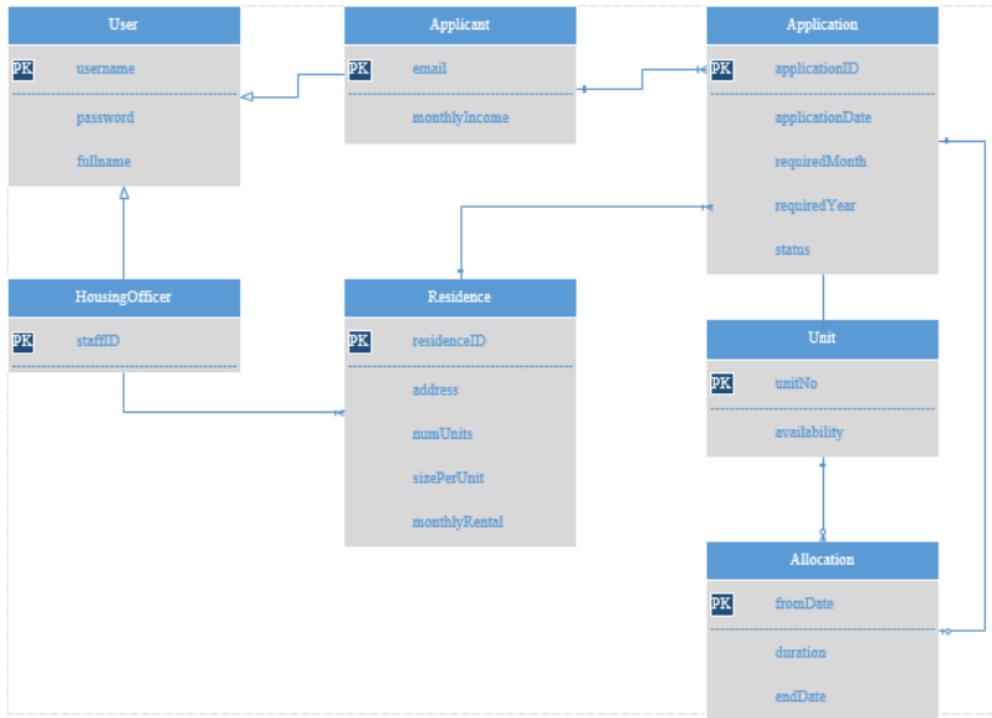
Architectural Design



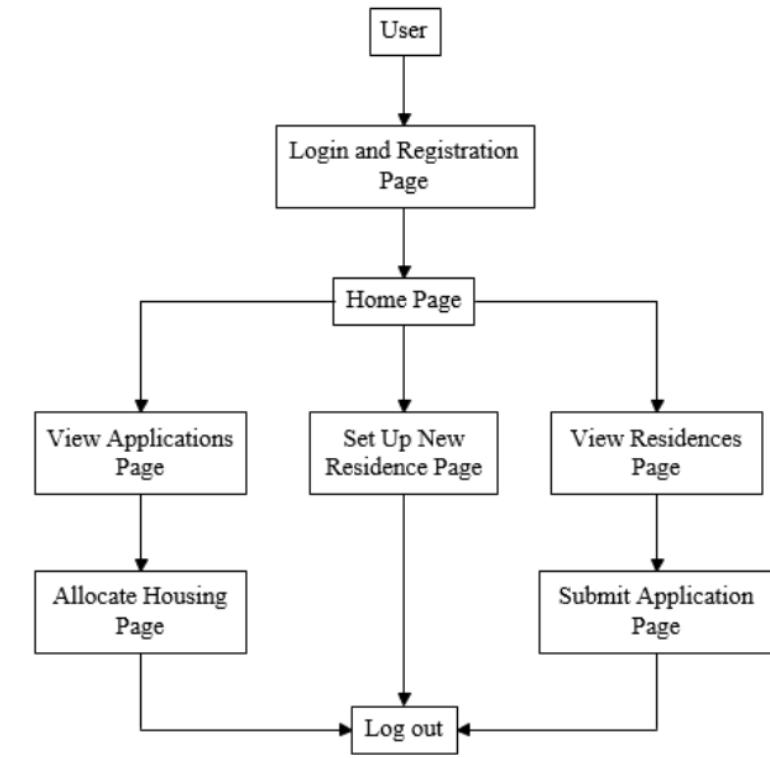
Design Class Diagram



ERD



Site Map



Generic User Experience/Wireframe

1. Login and Registration Page



The wireframe shows two side-by-side forms: 'Login' on the left and 'Register' on the right, set against a background.

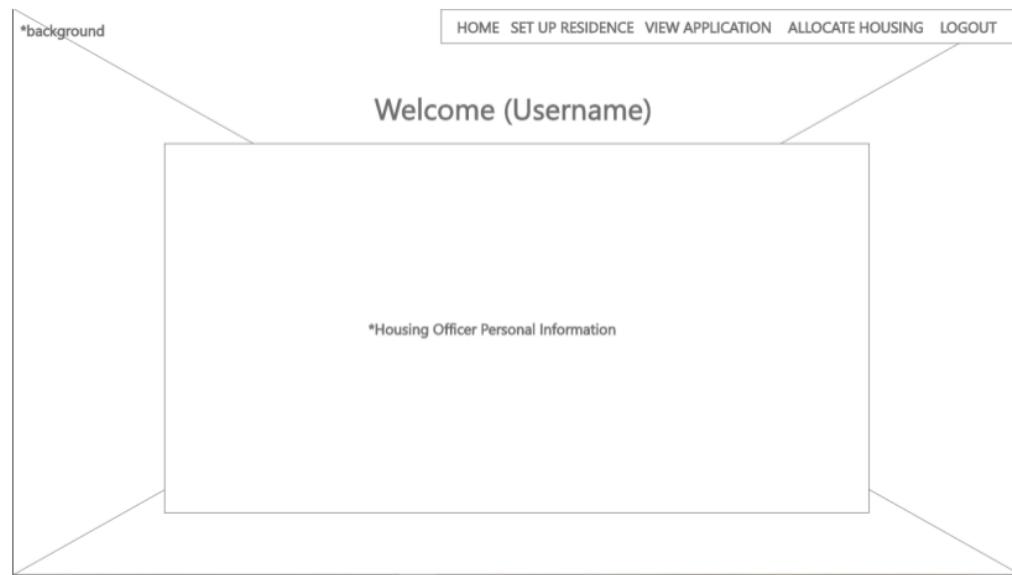
Login Form:

- Username: Input field
- Password: Input field
- User type:
 - Applicant
 - Housing Officer
- Login: Button

Register Form:

- Username: Input field
- Password: Input field
- Fullname: Input field
- Email: Input field
- User type:
 - Applicant
 - Housing Officer
- Register: Button

2. Home Page (Housing Officer)



The wireframe shows a main content area with a header navigation bar and a welcome message.

Header:

- HOME SET UP RESIDENCE VIEW APPLICATION ALLOCATE HOUSING LOGOUT

Welcome Message:

Welcome (Username)

Content Area:

*Housing Officer Personal Information

3. Home Page (Applicant)



4. Set Up New Residence Page

A wireframe diagram of the "SET UP NEW RESIDENCE" page. The page has a header with navigation links: HOME, SET UP RESIDENCE, VIEW APPLICATION, ALLOCATE HOUSING, and LOGOUT. The main content area is titled "SET UP NEW RESIDENCE". It contains six input fields with labels: Residence ID, Address, Unit Available, Size/unit, and Monthly Rental. Below these fields is a "Set Up New Residence" button. The entire page is set against a background.

5. View Residences Page

*background

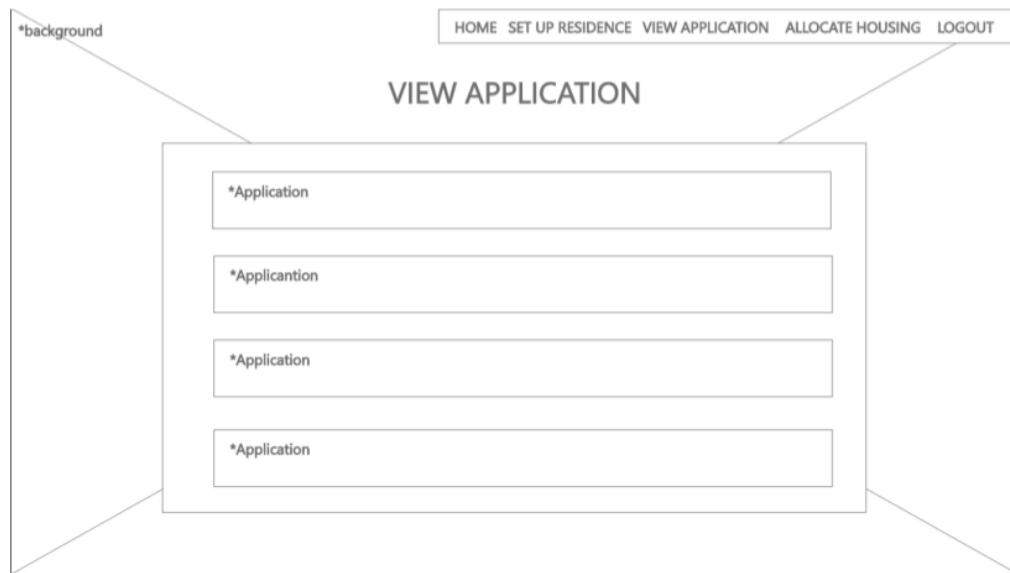
HOME	VIEW RESIDENCE	VIEW APPLICATION	LOGOUT
VIEW RESIDENCE			
<input type="text" value="*Resident list"/> <input type="text" value="*Resident list"/> <input type="text" value="*Resident list"/> <input type="text" value="*Resident list"/>			

6. Submit Application Page

*background

HOME	VIEW RESIDENCE	VIEW APPLICATION	LOGOUT
SUBMIT APPLICANT			
<input type="text" value="Username"/> <input type="text" value="Password"/> <input type="text" value="Fullname"/> <input type="text" value="Email"/> <input type="text" value="Monthly Income"/> <input type="text" value="Month and Year"/> <input type="button" value="Submit"/>			

7. View Applications Page

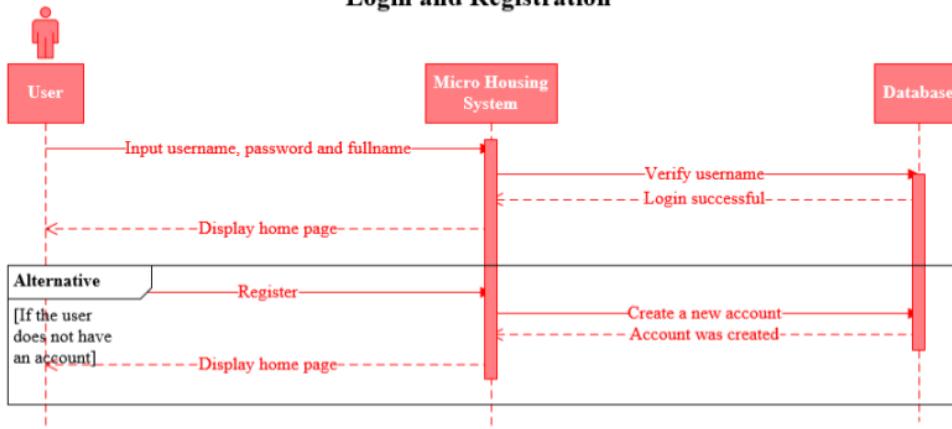


8. Allocate Housing Page

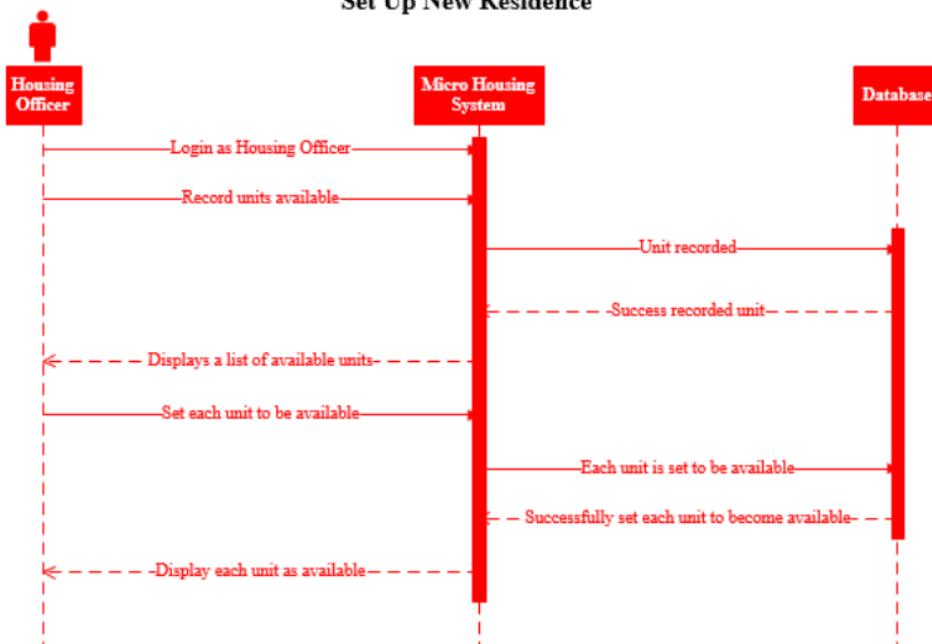


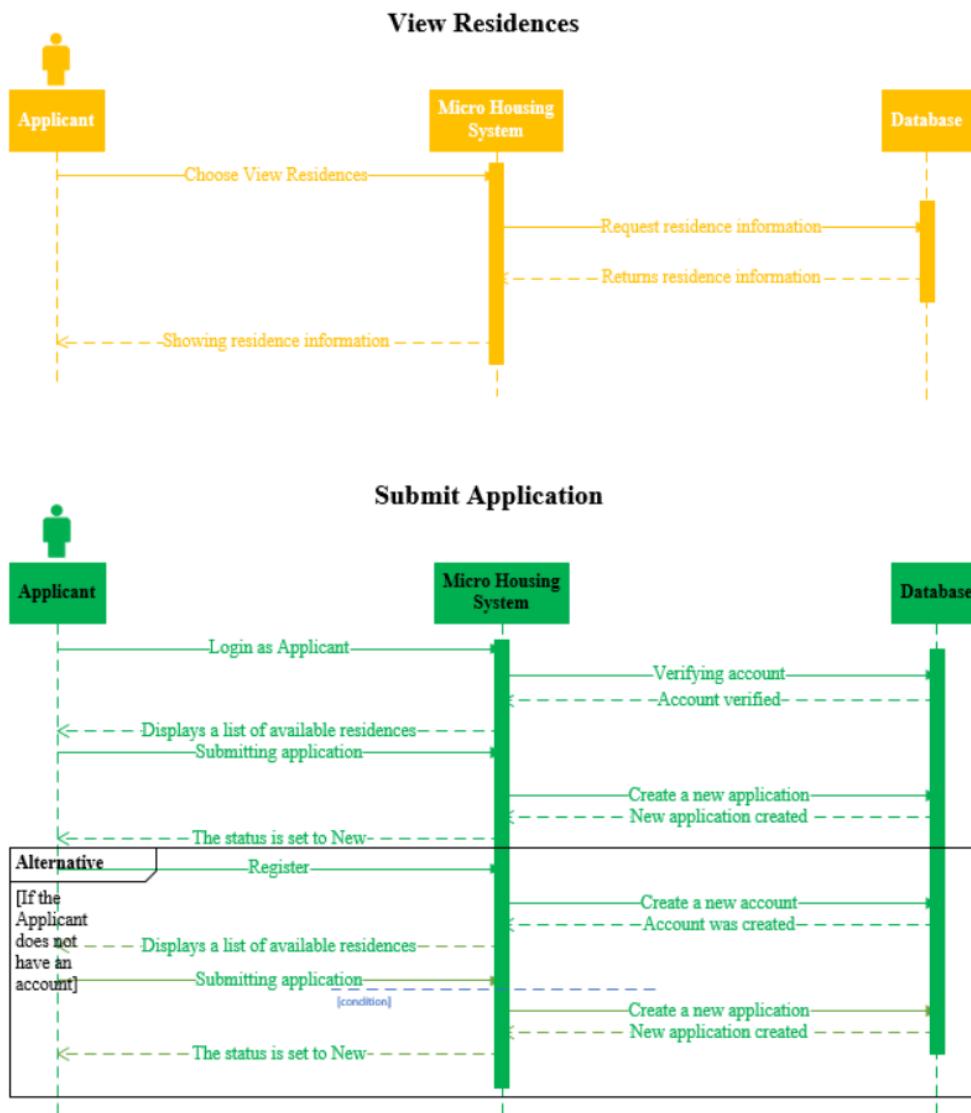
System Sequence Diagram + Contracts

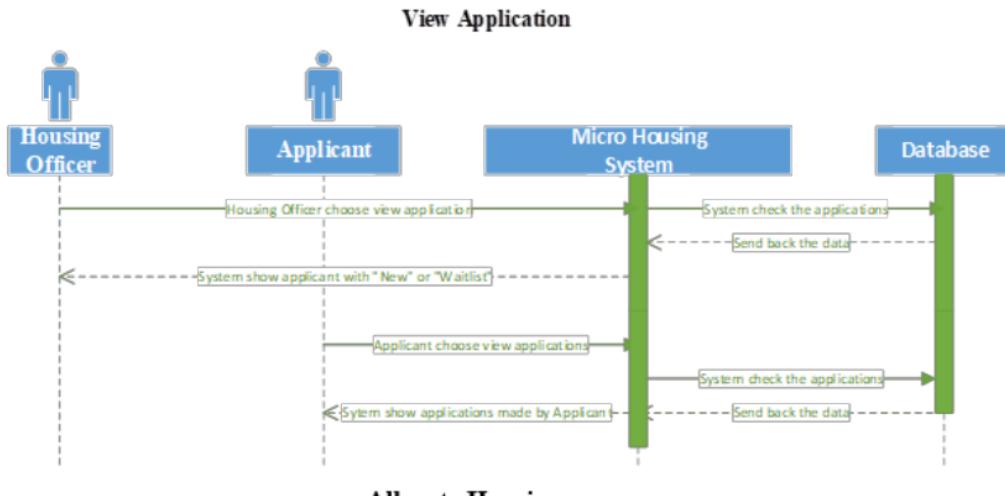
Login and Registration



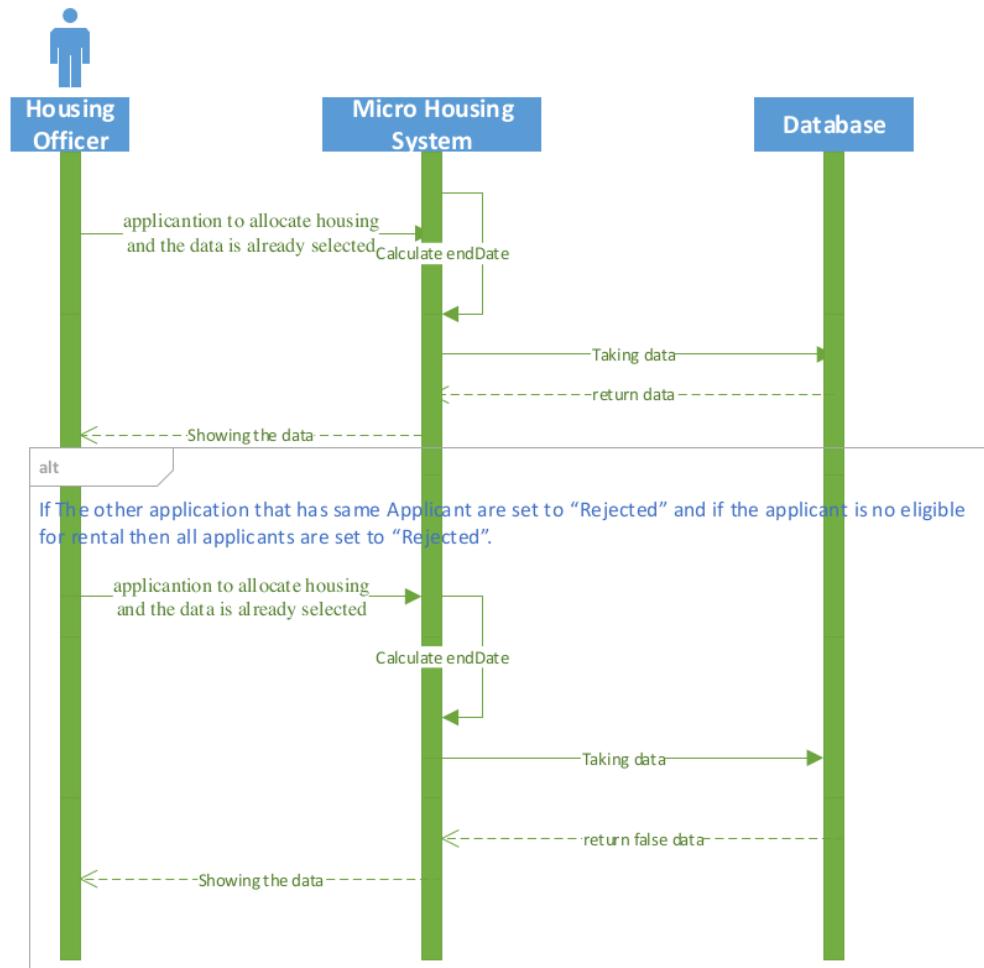
Set Up New Residence







Allocate Housing



Contracts

Login and Registration – Prepared by Bagus and Wahyudi

Operation	Cross Reference	Precondition	Post condition
login()	Use Case – Login and Registration	The user wants to enter the website.	The home page is displayed.
register()	Use Case – Login and Registration	The user wants to enter the website.	The home page is displayed.

Set Up New Residence – Prepared by Bagus

Operation	Cross Reference	Precondition	Post condition
recordUnitsAvailable()	Use Case – Set Up New Residence	Housing Officer want to record the number and information of each available unit.	A list of available units is displayed.
setUnitAvailable()	Use Case – Set Up New Residence	Housing Officer want to set the availability of each unit to be "available".	The availability of each unit is displayed as "available".

View Residences – Prepared by Bagus

Operation	Cross Reference	Precondition	Post condition
chooseViewResidences()	Use Case – View Residences	Applicant wants to see information about available housing.	Residence information is displayed.

Submit Application – Prepared by Bagus

Operation	Cross Reference	Precondition	Post condition
applicantLogin()	Use Case – Submit Application	Applicant wants to submit an application for a unit.	Displays a list of available residences.
submittingApplication()	Use Case – Submit Application	Applicant wants to send the application after choosing a residence.	The status is set to "New".
register()	Use Case – Submit Application	Applicant wants to submit an application for a unit.	Displays a list of available residences.

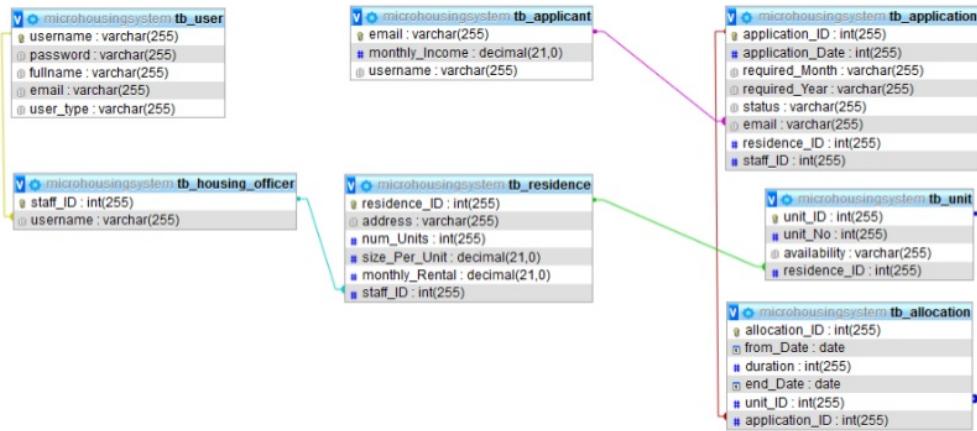
View Application – prepared by Wahyudi

Operation	Cross Reference	Precondition	Post condition
chooseViewApplication()	Use Case – choose view application	Housing Officer want to view application	Displays application with status “New” and “Waitlist”
viewApplication()	Use Case – view application	Applicant want to view the application	Display application

Allocating Housing – prepared by Wahyudi

Operation	Cross Reference	Precondition	Post condition
allocateHousing()	Use Case – select Applicant to allocate Housing	Housing Officer allocate data and already selected	Showing the data to Housing Officer
allocateHousing()	Use Case – select Applicant to allocate Housing (alternative)	Housing Officer allocate data and already selected	The Housing Officer does not use the data because it is not eligible

Database Design (Data Dictionary)



Identification of The Use Cases to be Developed by Member

Use Case	Team Member
Login and Registration	Bagus and Wahyudi
Home Page	Bagus and Wahyudi
Set up New Residence	Bagus
View Residence	Bagus
Submit Application	Bagus and Wahyudi
View Application	Wahyudi
Allocating Housing	Wahyudi

Test Objectives

The objectives of this test is to check whether the website is running normally and in accordance with the use case. We also check the website so that its function works well and ensure that the user interface is easy to use.

Test Plan & Method & Automated Testing Tool

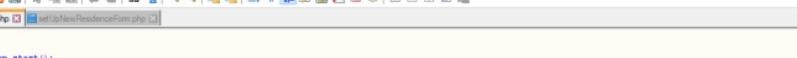
In this test we are going to test the login and register page, first we are going to input the username, password, Fullname, and Email then register as Applicant or Housing Officer. After registered then we need to login by input the username, password, and choose the User Type that you already created. We are using Selenium testing tool to test the website to make sure that there is no error or bug in the website.

Test Cases

- **Unit and Integration Testing**

We are using the Selenium program to test the code:

1. Set Up New Residence + Set Up New Residence Form



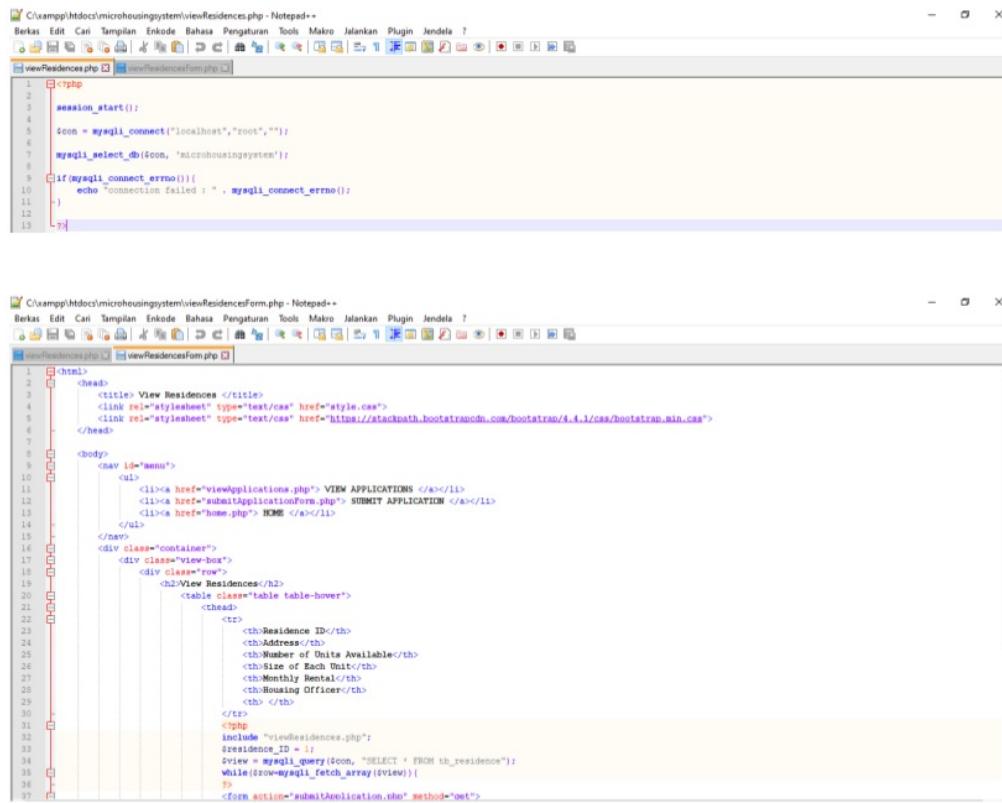
The screenshot shows a Notepad++ window with the following PHP code:

```
1 <?php
2
3 session_start();
4 header('location:setUpNewResidenceForm.php');
5
6 $conn = mysqli_connect('localhost','root','');
7
8 mysqli_select_db($conn, 'microhousingsystem');
9
10 if(isset($_POST['new'])) {
11     $address = $_POST['address'];
12     $size_Per_Unit = $_POST['size_Per_Unit'];
13     $size_Per_Unit = $_POST['size_Per_Unit'];
14     $monthly_Rental = $_POST['monthly_Rental'];
15     $staff_ID = $_POST['staff_ID'];
16
17     mysqli_query($conn, "INSERT INTO tb_residence VALUES ('','$address','$size_Per_Unit','$size_Per_Unit','$monthly_Rental','$staff_ID') or die(mysql_error($conn));
18 }
19
20
21
```

Selenium Test Result:

Log	Reference	
Running 'Set Up New Residence'		14.10.01
1. open on http://localhost/microhousingsystem/setupNewResidenceForm.php OK		14.10.01
2. setWindowSize on 773x708 OK		14.10.02
3. click on name=address OK		14.10.02
4. type on name=address with value Kuala Lumpur OK		14.10.02
5. click on name=units OK		14.10.02

2. View Residences + View Residences Form



The image shows two side-by-side Notepad++ windows. The left window contains the PHP code for 'viewResidences.php'. The right window contains the PHP code for 'viewResidencesForm.php', which includes HTML and CSS code for a web page.

```
viewResidences.php - Notepad++
```

```
1 <?php
2
3 session_start();
4
5 $con = mysqli_connect("localhost","root","");
6
7 mysqli_select_db($con, 'microhousingsystem');
8
9 if(mysqli_connect_errno()){
10     echo "connection failed : " . mysqli_connect_error();
11 }
12
13 ?>
```



```
viewResidencesForm.php - Notepad++
```

```
1 <!DOCTYPE html>
2 <html>
3     <head>
4         <title> View Residences </title>
5         <link rel="stylesheet" type="text/css" href="style.css">
6         <link rel="stylesheet" type="text/css" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
7
8     </head>
9
10    <body>
11        <nav id="menu">
12            <ul>
13                <li><a href="viewApplications.php"> VIEW APPLICATIONS </a></li>
14                <li><a href="submitApplicationForm.php"> SUBMIT APPLICATION </a></li>
15                <li><a href="home.php"> HOME </a></li>
16            </ul>
17        </nav>
18        <div class="container">
19            <div class="view-box">
20                <div class="row">
21                    <h2>View Residences</h2>
22                    <table class="table table-hover">
23                        <thead>
24                            <tr>
25                                <th>Residence ID</th>
26                                <th>Address</th>
27                                <th>Number of Units Available</th>
28                                <th>Size of Each Unit</th>
29                                <th>Monthly Rental</th>
30                                <th>Housing Officer</th>
31                                <th> </th>
32                            </tr>
33                        <tbody>
34                            <tr>
35                                <td>residence_ID</td>
36                                <td>residence_address</td>
37                                <td>residence_no_of_units</td>
38                                <td>residence_size</td>
39                                <td>residence_monthly_rental</td>
40                                <td>residence_housing_officer</td>
41                                <td> </td>
42                            </tr>
43                        </tbody>
44                    </table>
45                </div>
46            </div>
47        </div>
48    </body>
49 </html>
```

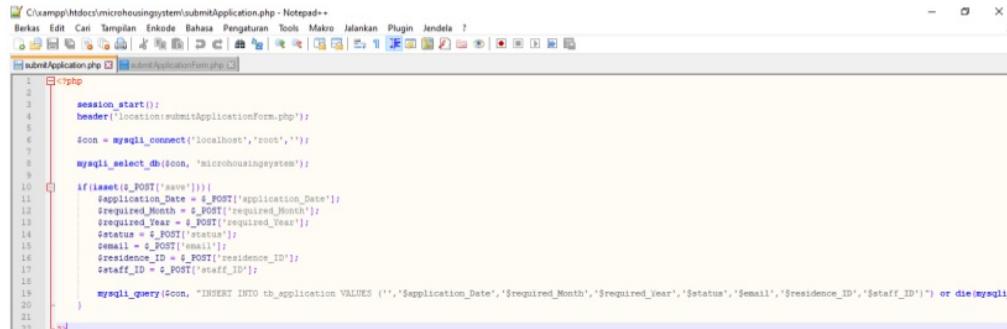
Selenium Test Result:



The screenshot shows a table of test results from a Selenium run. The 'Log' column lists the steps taken, and the 'Reference' column shows the timestamp for each step.

Log	Reference
Running 'View Residences'	
1 open on http://localhost/microhousingsystem/viewResidencesForm.php OK	14:49:54
2 setWindowSize on 773x708 OK	14:49:54
3 click on name=residence_ID OK	14:49:54
4 click on css=rth-child(3) btn OK	14:49:55
'View Residences' completed successfully	14:49:55

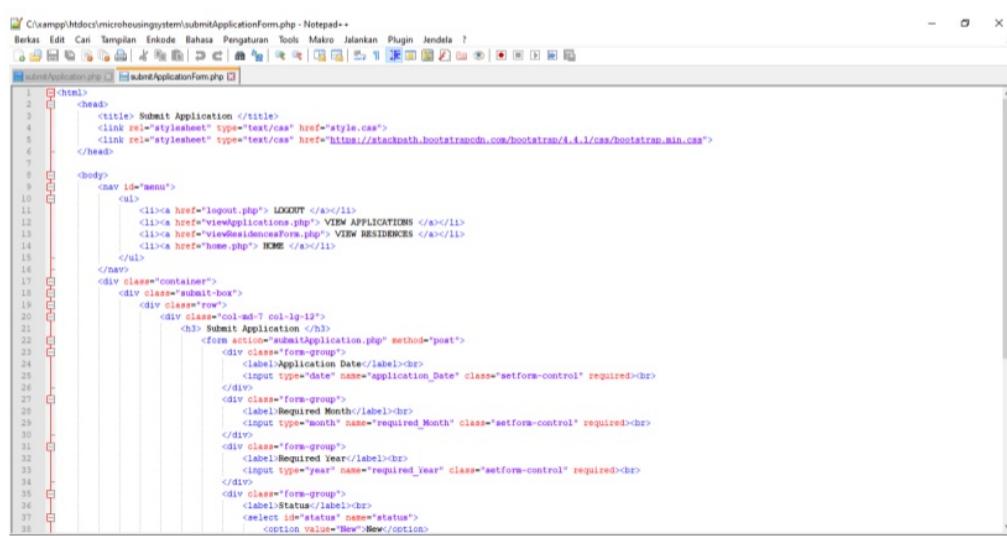
3. Submit Application + Submit Application Form



```

1 <?php
2
3     session_start();
4     header('location:submitApplicationForm.php');
5
6     $con = mysqli_connect("localhost","root","");
7
8     mysqli_select_db($con, "microhousingsystem");
9
10    if(isset($_POST['save'])){
11        $application_Date = $_POST['application_Date'];
12        $required_Month = $_POST['required_Month'];
13        $required_Year = $_POST['required_Year'];
14        $status = $_POST['status'];
15        $email = $_POST['email'];
16        $residence_ID = $_POST['residence_ID'];
17        $staff_ID = $_POST['staff_ID'];
18
19        mysqli_query($con, "INSERT INTO tb_application VALUES ('','$application_Date','$required_Month','$required_Year','$status','$email','$residence_ID','$staff_ID')") or die(mysqli_error($con));
20    }
21
22    ?>

```

```

1 <!DOCTYPE html>
2 <html>
3     <head>
4         <title> Submit Application </title>
5         <link rel="stylesheet" type="text/css" href="style.css">
6         <link rel="stylesheet" type="text/css" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
7     </head>
8
9     <body>
10        <nav id="menu">
11            <ul>
12                <li><a href="logout.php"> LOGOUT </a></li>
13                <li><a href="viewApplications.php"> VIEW APPLICATIONS </a></li>
14                <li><a href="viewResidenceForm.php"> VIEW RESIDENCES </a></li>
15                <li><a href="home.php"> HOME </a></li>
16            </ul>
17        </nav>
18
19        <div class="container">
20            <div class="submit-box">
21                <div class="row">
22                    <div class="col-md-7 col-lg-12">
23                        <h3> Submit Application </h3>
24                        <form action="submitApplication.php" method="post">
25                            <div class="form-group">
26                                <label> Application Date </label><br>
27                                <input type="date" name="application_Date" class="setform-control" required><br>
28                            </div>
29                            <div class="form-group">
30                                <label> Required Month </label><br>
31                                <input type="month" name="required_Month" class="setform-control" required><br>
32                            </div>
33                            <div class="form-group">
34                                <label> Required Year </label><br>
35                                <input type="year" name="required_Year" class="setform-control" required><br>
36                            </div>
37                            <div class="form-group">
38                                <label> Status /<input type="checkbox" checked="" name="status"/> New </label>
39                                <select id="status" name="status">
40                                    <option value="New">New</option>
41                                </select>
42                            </div>
43                        </form>
44                    </div>
45                </div>
46            </div>
47        </div>
48    </body>
49</html>

```

Selenium Test Result:

Log	Reference
Running 'Submit Application'	
1. open on http://localhost/microhousingsystem/submitApplicationForm.php OK	14.47.53
2. selfWindowSize on 773x708 OK	14.47.54
3. click on name=application_Date OK	14.47.54
4. type on name=application_Date with value 2020-05-06 OK	14.47.55
5. click on name=required_Month OK	14.47.55

4. View Application Housing and Applicant + View Application Housing Officer and Applicant Form

The image shows three separate Notepad++ windows, each containing a PHP script:

- viewApplicationsApplicant.php:**

```

1 <?php
2
3 session_start();
4
5 $con = mysqli_connect("localhost","root","");
6
7 mysqli_select_db($con, 'microhousingsystem');
8
9 if(mysqli_connect_errno()){
10     echo "connection failed : " . mysqli_connect_errno();
11 }
12
13 ?>

```
- viewApplicationsHousingOfficer.php:**

```

1 <?php
2
3 session_start();
4
5 $con = mysqli_connect("localhost","root","");
6
7 mysqli_select_db($con, 'microhousingsystem');
8
9 if(mysqli_connect_errno()){
10     echo "connection failed : " . mysqli_connect_errno();
11 }
12
13 ?>

```
- viewApplicationsHousingOfficeForm.php:**

```

1 <html>
2     <head>
3         <title> View Applications(Housing Officer) </title>
4         <link rel="stylesheet" type="text/css" href="style.css">
5         <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
6     </head>
7
8     <body>
9         <nav id="menu">
10             <ul>
11                 <li><a href="viewApplicationsHousingOfficerForm.php"> VIEW APPLICATIONS </a></li>
12                 <li><a href="homeHousingOfficer.php"> HOME </a></li>
13             </ul>
14         </nav>
15         <div class="container">
16             <div class="view-box">
17                 <div class="row">
18                     <div class="col">
19                         <h2>View Applicants</h2>
20                         <table class="table table-hover">
21                             <thead>
22                                 <tr>
23                                     <th>Residence ID</th>
24                                     <th>Number of Units Available</th>
25                                     <th>Monthly Rental</th>
26                                     <th>Month Required</th>
27                                     <th>Year Required</th>
28                                     <th>Status</th>
29                                     <th> </th>
30                                 </tr>
31                             </thead>
32                             <tbody>
33                                 <tr>
34                                     <td>1</td>
35                                     <td>1</td>
36                                     <td>1</td>
37                                     <td>1</td>
38                                     <td>1</td>
39                                     <td>1</td>
40                                     <td><a href="allocateHousing.php"><button type="submit" class="btn btn-primary">Allocate</button></a></td>
41                                 </tr>
42                             </tbody>
43                         </table>
44                     </div>
45                 </div>
46             </div>
47         </div>
48         <form action="allocateHousing.php" method="get">
49             <tr>
50                 <td><php echo $row['residence_ID']; ?> </td>
51                 <td><php echo $row['num_Units']; ?> </td>
52                 <td><php echo $row['monthly_Rental']; ?> </td>
53                 <td><php echo $row['required_Month']; ?> </td>
54                 <td><php echo $row['required_Year']; ?> </td>
55                 <td><php echo $row['status']; ?> </td>
56             </tr>
57         </form>
58     </body>
59 </html>

```

```

1 <html>
2   <head>
3     <title> View Applications (Applicant) </title>
4     <link rel="stylesheet" type="text/css" href="style.css">
5     <link rel="stylesheet" type="text/css" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css">
6   </head>
7
8   <body>
9     <nav id="menu">
10       <ul>
11         <li><a href="viewApplicationsApplicantForm.php"> VIEW APPLICATIONS </a></li>
12         <li><a href="submitApplicationForm.php"> SUBMIT APPLICATION </a></li>
13         <li><a href="homeApplicant.php"> HOME </a></li>
14       </ul>
15     </nav>
16     <div class="container">
17       <div class="row">
18         <div class="row">
19           <h2>View Applications</h2>
20           <table class="table table-hover">
21             <thead>
22               <tr>
23                 <th>Residence ID</th>
24                 <th>Number of Units Available</th>
25                 <th>Monthly Rental</th>
26                 <th>Application Status</th>
27               </tr>
28             </thead>
29             <tbody>
30               <?php
31               include "viewApplicationsApplicant.php";
32               $residence_ID = 1;
33               $view = mysqli_query($con, "SELECT residence_ID, num_Units, monthly_Rental, status FROM tb_residence INNER JOIN tb_application ON tb_residence.residence_ID = tb_application.residence_ID");
34               while($row=mysqli_fetch_array($view))
35               {
36                 <tr>
37                   <td><?php echo $row['residence_ID']; ?></td>
38                   <td><?php echo $row['num_Units']; ?></td>
39                   <td><?php echo $row['monthly_Rental']; ?></td>
40                   <td><?php echo $row['status']; ?></td>
41                 </tr>
42               }
43             </tbody>
44           </table>
45         </div>
46       </div>
47     </div>
48   </body>
49 </html>

```

Selenium Test Result

Log	Reference	
Running 'viewApplicationsHousingOfficerForm'		16:40:05
1. open on imicrohousingsystem/homeHousingOfficer.php OK		16:40:06
2. setWindowSize on 697x727 OK		16:40:06
3. click on linkText=VIEW APPLICATIONS OK		16:40:06
'viewApplicationsHousingOfficerForm' completed successfully		16:40:07

5. Allocate Housing and Update + View Allocate Housing Form and View Allocate Housing

```

<html>
    <head>
        <title> Allocate Housing </title>
        <link rel="stylesheet" type="text/css" href="style.css">
        <link rel="stylesheet" type="text/css" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
    </head>
    <body>
        <nav id="menu">
            <ul>
                <li><a href="logout.php"> LOGOUT </a></li>
                <li><a href="viewAllocateHousingForm.php"> VIEW ALLOCATE HOUSING </a></li>
                <li><a href="viewApplicationsHousingOfficerForm.php"> VIEW APPLICATIONS </a></li>
                <li><a href="homeHousingOfficer.php"> HOME </a></li>
            </ul>
        </nav>
        <div class="container">
            <div class="submit-box">
                <div class="col-md-7 col-lg-12">
                    <h3> Allocate Housing </h3>
                    <form action="Update.php" method="post">
                        <div class="form-group">
                            <label>From Date</label>
                            <input type="date" name="from_Date" class="setform-control" required>
                        </div>
                        <div class="form-group">
                            <label>Duration in Month</label>
                            <select id="duration" name="duration">
                                <option value="12">12</option>
                                <option value="18">18</option>
                            </select>
                        </div>
                        <!--
                        <div class="form-group">
                            <label>End Date</label>
                            <div>
                                <div class="form-group">
                                    <label>Unit ID</label>
                                    <input type="number" name="unit_ID" class="setform-control" required>
                                </div>
                                <div class="form-group">
                                    <label>Application ID</label>
                                    <input type="number" name="application_ID" class="setform-control" required>
                                </div>
                                <div class="form-group">
                                    <label>Status</label>
                                    <select id="status" name="status">
                                        <option value="Approved">Approved</option>
                                        <option value="Rejected">Rejected</option>
                                        <option value="Waitlist">Waitlist</option>
                                    </select>
                                </div>
                            </div>
                            <button type="submit" class="btn btn-primary" name="save"> Allocate </button>
                        </div>
                    </form>
                </div>
            </div>
        </body>
    </html>

```

```

<?php
session_start();
header('location:viewAllocateHousingForm.php');

$con = mysqli_connect('localhost','root','');
if($con == false)
{
    die("Connection failed: " . mysqli_connect_error());
}

mysqli_select_db($con, 'microhousingsystem');

if(isset($_POST['save']))
{
    $Allocation_ID = $_POST['allocation_ID'];
    $from_Date = $_POST['from_Date'];
    $duration = $_POST['duration'];
    $Send_Date = $_POST['end_Date'];
    $Unit_ID = $_POST['unit_ID'];
    $Applicant_ID = $_POST['application_ID'];

    mysqli_query($con, "INSERT INTO tb_allocation VALUES ('','$Allocation_ID','$from_Date','$duration','$Send_Date','$Unit_ID','$Applicant_ID', '$status')");

    /*EDate = $Send_Date;
    if($duration == 12)
    {
        $EDate = date('from Date');
        $EDate = date('from Date', strtotime('+12 month', strtotime($EDate)));
        echo "$EDate";
    }
    else if($duration == 18)
    {
        $EDate = date('from Date');
        $EDate = date('from Date', strtotime('+18 month', strtotime($EDate)));
        echo "$EDate";
    }*/
}

```

C:\xampp\htdocs\microhousing\viewAllocateHousingForm.php - Notepad++

```

1 <html>
2   <head>
3     <title> View Applications(Housing Officer) </title>
4     <link rel="stylesheet" type="text/css" href="style.css">
5     <link rel="stylesheet" type="text/css" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
6   </head>
7
8   <body>
9     <nav id="menu">
10    <ul>
11      <li><a href="viewApplicationsOfficerForm.php"> VIEW APPLICATIONS </a></li>
12      <li><a href="viewAllocateHousingForm.php"> VIEW ALLOCATE HOUSING </a></li>
13      <li><a href="homeHousingOfficer.php"> HOME </a></li>
14    </ul>
15  </nav>
16  <div class="container">
17    <div class="view-box">
18      <div class="row">
19        <h2>View Allocated Housing</h2>
20        <table class="table table-hover">
21          <thead>
22            <tr>
23              <th>Allocation ID</th>
24              <th>From Date</th>
25              <th>Duration</th>
26              <th>End Date</th>
27              <th>Unit ID</th>
28              <th>Application ID</th>
29              <th>Status</th>
30              <th></th>
31            </tr>
32          </thead>
33          <tbody>
34            <tr>
35              <td>$_view = mysqli_query($con, "SELECT allocation_ID, from_Date, duration, end_Date, unit_ID, application_ID, status FROM tb_allocation INNER JOIN tb_application ON tb_allocation.application_ID = tb_application.ID");
36              <td>$_row=mysqli_fetch_array($_view);
37              <td>$_row['from_Date'];
38              <td>$_row['duration'];
39              <td>$_row['end_Date'];
40              <td>$_row['unit_ID'];
41              <td>$_row['application_ID'];
42              <td>$_row['status'];
43            </td>
44          </tbody>
45        </table>
46        <form action="allocateHousing.php" method="get"> -->
47          <tr>
48            <td><input type="text" value="$_row['allocation_ID']" /></td>
49            <td><input type="text" value="$_row['from_Date']" /></td>
50            <td><input type="text" value="$_row['duration']" /></td>
51            <td><input type="text" value="$_row['end_Date']" /></td>
52            <td><input type="text" value="$_row['unit_ID']" /></td>
53            <td><input type="text" value="$_row['application_ID']" /></td>
54            <td><input type="text" value="$_row['status']" /></td>
55          </tr>
56        </form>
57      </div>
58    </div>
59  </body>
60</html>

```

C:\xampp\htdocs\microhousing\viewAllocateHousing.php - Notepad++

```

1 ?php
2
3 session_start();
4
5 $con = mysqli_connect("localhost","root","");
6
7 mysqli_select_db($con, 'microhousing');
8
9 if(mysqli_connect_errno()){
10   echo "connection failed : " . mysqli_connect_error();
11 }
12
13 ?>

```

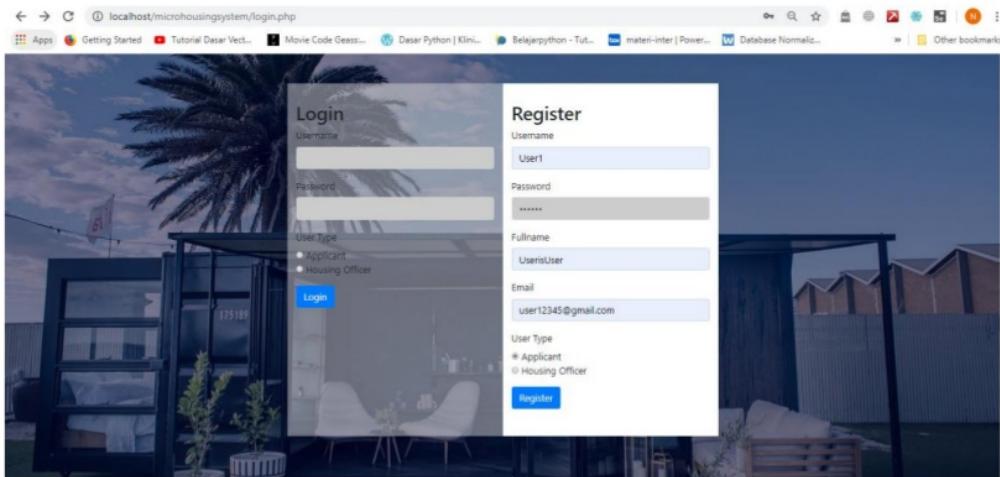
Selenium

Log	Reference
'Allocating' completed successfully	
Running 'Allocating'	
1. open on http://localhost/microhousingsystem/view/Applications/HousingOfficeForm.php OK	17:00:14
2. setWindowSize on 697x727 OK	17:07:29
3. click on css=r:nth-child(3).btn OK	17:07:29
4. click on name=from_Date OK	17:07:30
5. type on name=from_Date with value 2020-05-06 OK	17:07:31
6. click on id=duration OK	17:07:31
7. click on id=duration OK	17:07:31
8. click on name=unit_ID OK	17:07:32
9. type on name=unit_ID with value 1 OK	17:07:32
10. click on name=application_ID OK	17:07:32
11. type on name=application_ID with value 1 OK	17:07:32
12. click on id=status OK	17:07:32
13. click on id=status OK	17:07:32
14. click on name=save OK	17:07:32
'Allocating' completed successfully	

- **System Testing**

Manual Testing

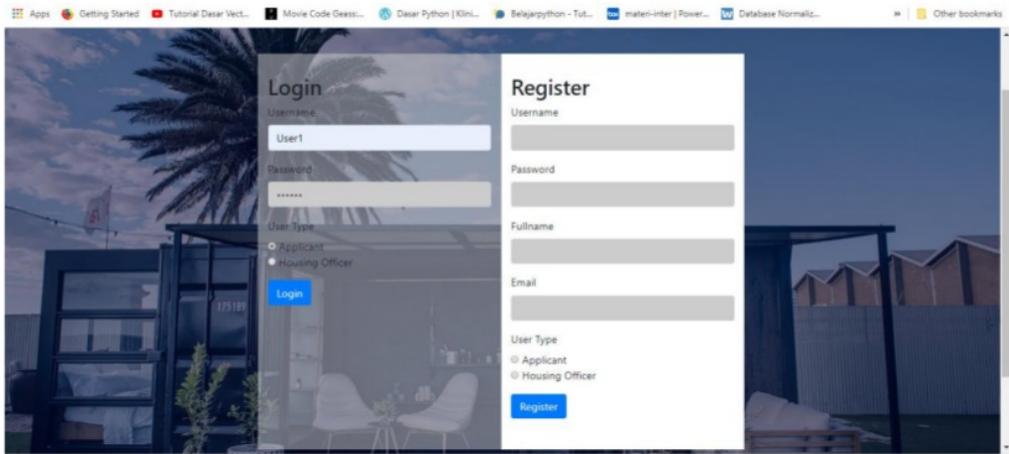
1. Input Username, Password, Fullname, Email, and chose User Type then Click Register to Register



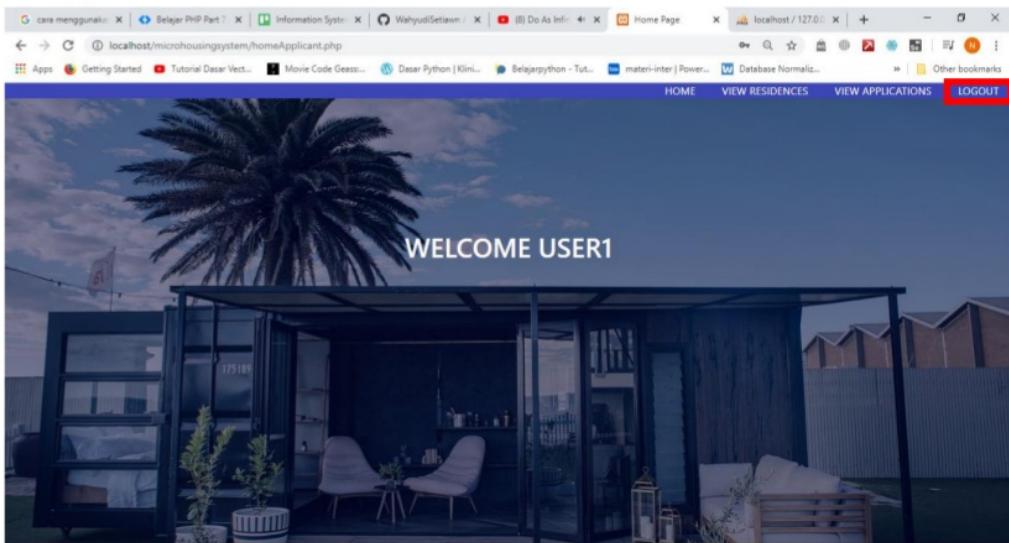
2. After that the data will be automatically stored in the database

	username	password	fullname	email	user_type
<input type="checkbox"/>	bagus53	1234	I Kadek Bagus Paradhita Utama	bagusparadhita@gmail.com	applicant
<input type="checkbox"/>	chacha	2345	chacha maricha	chacha@gmail.com	housing officer
<input type="checkbox"/>	gantul	4567	gantolz	gantulmentalmentul@gmail.com	applicant
<input type="checkbox"/>	jono	4567	jono joni	jono@gmail.com	housing officer
<input checked="" type="checkbox"/>	User1	123456	User1sUser	user12345@gmail.com	applicant
<input type="checkbox"/>	Wahyudi	12345	I Nengah Wahyudi Selawati	wahyudi199917@yahoo.com	applicant

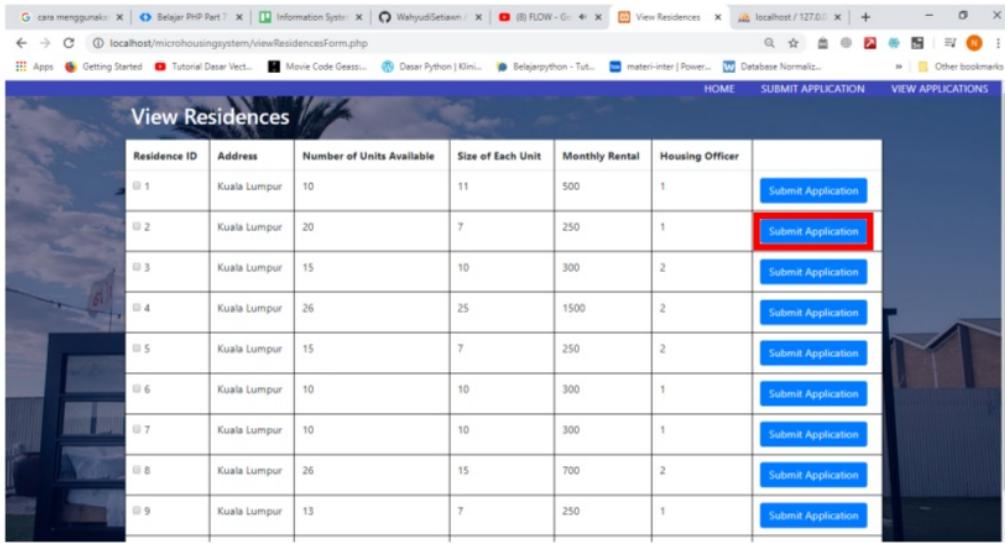
3. Next input your registered Username, Password, and the User Type then click Login



4. Welcome to the Home page then click LOGOUT to go back to Login and Registration page

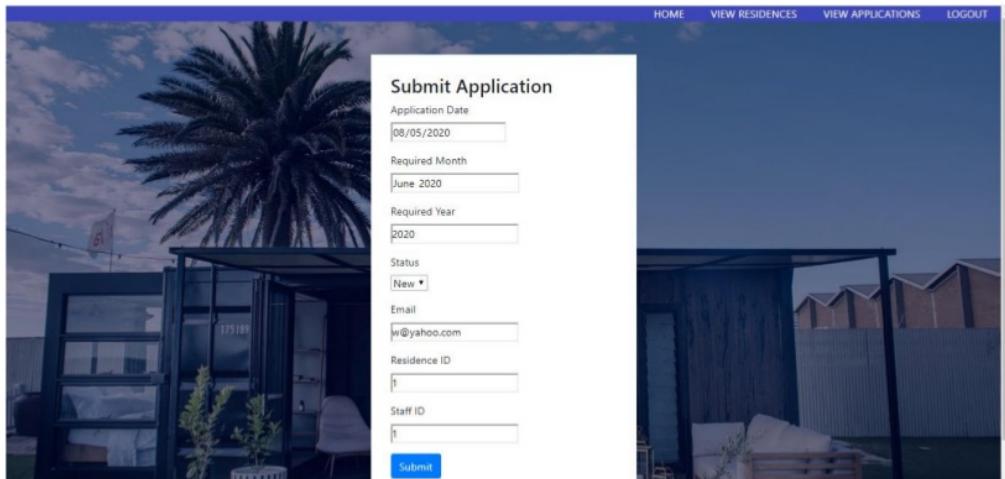


5. Click View Residences to view the available residences and The Applicant can Submit Application to the residence by click the Submit Application button



Residence ID	Address	Number of Units Available	Size of Each Unit	Monthly Rental	Housing Officer	
1	Kuala Lumpur	10	11	500	1	<button>Submit Application</button>
2	Kuala Lumpur	20	7	250	1	<button>Submit Application</button>
3	Kuala Lumpur	15	10	300	2	<button>Submit Application</button>
4	Kuala Lumpur	26	25	1500	2	<button>Submit Application</button>
5	Kuala Lumpur	15	7	250	2	<button>Submit Application</button>
6	Kuala Lumpur	10	10	300	1	<button>Submit Application</button>
7	Kuala Lumpur	10	10	300	1	<button>Submit Application</button>
8	Kuala Lumpur	26	15	700	2	<button>Submit Application</button>
9	Kuala Lumpur	13	7	250	1	<button>Submit Application</button>

6. After click the Submit Application button then the Applicant will move to Submit Application page. Applicant can submit the application by input the Application Date, Required Month, Required Year, Status, Email, Residence ID, and Staff ID then click Submit button to submit the application.



Submit Application

Application Date
08/05/2020

Required Month
June 2020

Required Year
2020

Status
New ▾

Email
abc@yahoo.com

Residence ID
1

Staff ID
1

7. After that the data will be stored to the database

The screenshot shows the phpMyAdmin interface with the database 'microhousing' selected. The table 'tb_application' is displayed, showing 7 rows of data. The columns are: application_ID, application_Date, required_Month, required_Year, status, email, residence_ID, and staff_ID. The data includes various email addresses and staff IDs.

application_ID	application_Date	required_Month	required_Year	status	email	residence_ID	staff_ID
1	2020	2020-06	2020	New	cemboleke@gmail.com	1	1
37	2020	2021-01	2021	New	twicepang@gmail.com	2	1
38	2020	2020-06	2020	New	bagusparadita@gmail.com	4	2
39	2020	2021-01	2021	New	cemboleke@gmail.com	1	1
40	2020	2021-01	2021	New	cemboleke@gmail.com	1	1
41	2020	2021-01	2021	New	cemboleke@gmail.com	1	1
0	2020	2020-06	2020	New	willy@yahoo.com	1	1
9	2020	2020-06	2020	New	ing@yahoo.com	1	1

8. The Applicant can view the applicant in the View Applications

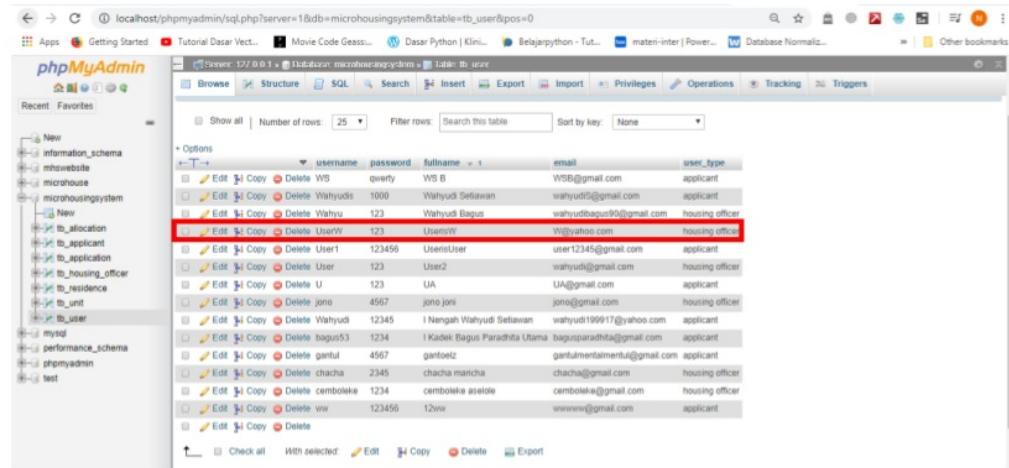
The screenshot shows a web page titled 'View Applications' with a table of available units. The columns are: Residence ID, Number of Units Available, Monthly Rental, and Application Status. The data shows multiple units available at different residences.

Residence ID	Number of Units Available	Monthly Rental	Application Status
1	10	500	New
1	10	500	New
1	10	500	New
1	10	500	New
1	10	500	New
1	10	500	New
2	20	250	New
4	26	1500	New

9. Input Username, Password, Fullname, Email, and choose Housing Officer User Type then Click Register to Register

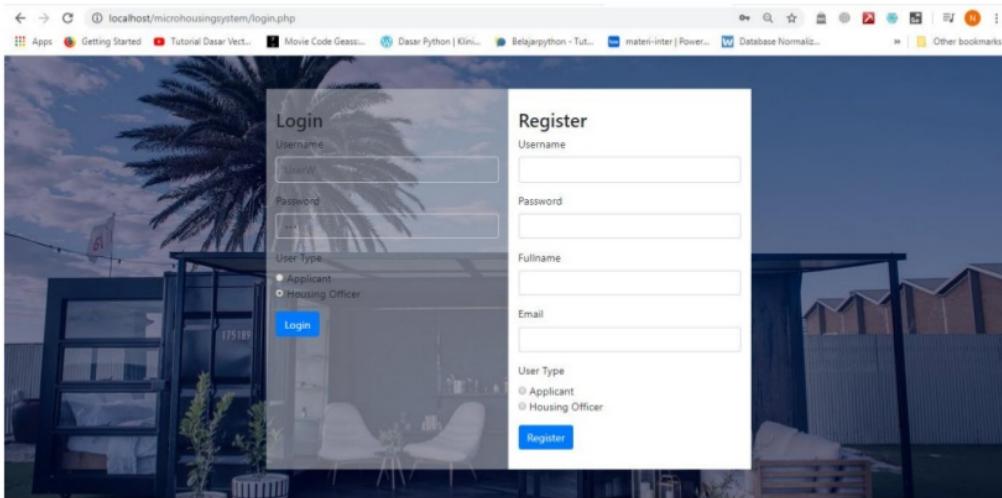
The screenshot shows the 'Login' and 'Register' pages side-by-side. The 'Login' page has fields for 'Username' and 'Password'. The 'User Type' field has two options: 'Applicant' and 'Housing Officer', with 'Applicant' selected. The 'Register' page has fields for 'Username', 'Password', 'Fullname', 'Email', and 'User Type'. The 'User Type' field has the same two options, with 'Housing Officer' selected. Both pages have a 'Register' button.

10. After that the data will be stored in the database

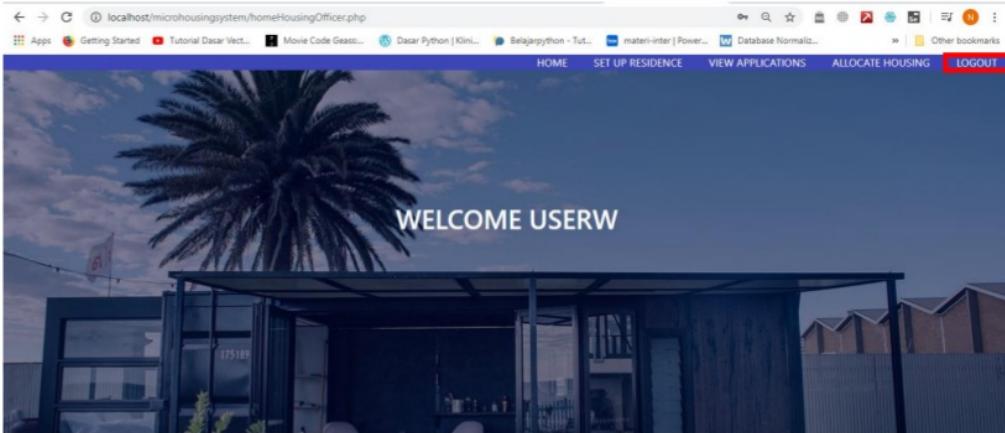


	username	password	fullname	email	user_type
1	qweerty	W5 B	WSB	WSB@gmail.com	applicant
2	Wahyudi	1000	Wahyudi Setiawan	wahyudi@gmail.com	applicant
3	Wahyu	123	Wahyudi Bagus	wahyudibagus90@gmail.com	housing officer
4	Willy@yahoo.com	123	UsersUser	user12345@gmail.com	applicant
5	User1	123456	User2	wahyudi@gmail.com	housing officer
6	U	123	UA	UA@gmail.com	applicant
7	jono	4567	jono jono	jono@gmail.com	housing officer
8	I Nengah Wahyudi Setiawan	12345	I Nengah Wahyudi Setiawan	wahyudi199917@yahoo.com	applicant
9	I Kadik Bagus Paradita Utama	1234	I Kadik Bagus Paradita Utama	bagusparditha@gmail.com	applicant
10	garuhmentainment@gmail.com	4567	garuhmentainment@gmail.com	garuhmentainment@gmail.com	applicant
11	chacha	2345	chacha mancha	chachag@gmail.com	housing officer
12	cembolicakasele	1234	cembolicakasele	cembolicakasele@gmail.com	housing officer
13	www	123456	12www	wwwwww@gmail.com	applicant
14					
15					
16					
17					
18					
19					

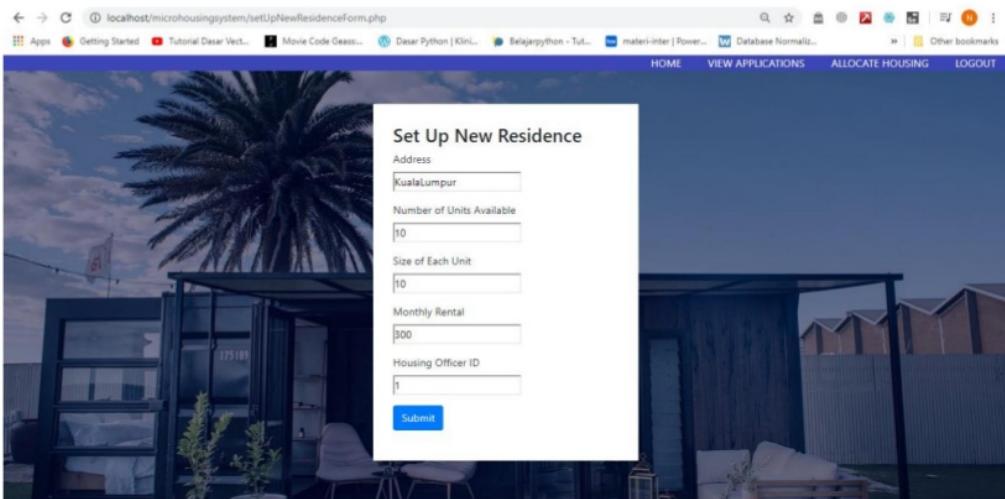
11. Next input the Username, Password, choose the User Type as Housing Officer, and click Login button



12. Click LOGOUT to go back to Login and Registration page



13. Then Click SET UP RESIDENCE to make a new residence by input Address, Number of Unit Available, Size of Each Unit, Monthly Rental, and Housing Officer ID, then click Submit button to submit the new Residence



14. The data is stored in the database

The screenshot shows the phpMyAdmin interface with the 'tb_residence' table selected. The table has columns: residence_ID, address, num_Units, size_Per_Unit, monthly_Rental, and staff_ID. The data is as follows:

residence_ID	address	num_Units	size_Per_Unit	monthly_Rental	staff_ID
1	Kuala Lumpur	10	11	500	1
2	Kuala Lumpur	20	7	250	1
3	Kuala Lumpur	15	10	300	2
4	Kuala Lumpur	26	25	1500	2
5	Kuala Lumpur	15	7	250	2
6	Kuala Lumpur	10	10	300	1
7	Kuala Lumpur	10	10	300	1
8	Kuala Lumpur	26	15	700	2
9	Kuala Lumpur	13	7	250	1
10	Kuala Lumpur	13	7	250	1

15. Then click VIEW APPLICATIONS to view application and click Allocate button to allocate the applicant

The screenshot shows the 'View Applications' page. It lists available residences with their details and an 'Allocate' button in the 'Status' column.

Residence ID	Number of Units Available	Monthly Rental	Month Required	Year Required	Status	Action
1	10	500	2020-06	2020	New	<input type="button" value="Allocate"/>
1	10	500	2021-01	2021	New	<input type="button" value="Allocate"/>
1	10	500	2021-01	2021	New	<input type="button" value="Allocate"/>
1	10	500	2021-01	2021	New	<input type="button" value="Allocate"/>
1	10	500	2020-06	2020	New	<input type="button" value="Allocate"/>
1	10	500	2020-06	2020	New	<input type="button" value="Allocate"/>
2	20	250	2021-01	2021	New	<input type="button" value="Allocate"/>
4	26	1500	2020-06	2020	New	<input type="button" value="Allocate"/>

16. Input From Date, Duration in Months, Unit ID, Application ID, and Status then click Submit button to allocate housing

The screenshot shows a web browser window with a title bar containing various links and icons. The main content area displays a form titled "Allocate Housing". The form includes fields for "From Date" (set to 05/06/2020), "Duration in Months" (set to 12), "Unit ID" (set to 1), "Application ID" (set to 1), and a dropdown "Status" field set to "Approved". Below these fields is a blue "Allocate" button. The background of the page features a photograph of a modern building with large glass windows and a palm tree.

17. Next the Housing Officer can see the Allocated Housing in View Allocate Housing

The screenshot shows a web browser window with a title bar containing various links and icons. The main content area displays a table titled "View Allocated Housing". The table has a header row with columns labeled "Allocation ID", "From Date", "Duration", "End Date", "Unit ID", "Application ID", and "Status". The body of the table is currently empty, showing only the header row.

Selenium Test

The screenshot shows the Selenium IDE interface with the following details:

- Project:** Assignment 3
- Test Name:** TestSemua
- Test Description:** viewApplicationsHousingOffice
- Test Script (Table):**

Command	Target	Value
1 open	http://localhost/microhousingsystem/login.php	
2 set window size	697x727	
3 click	name=user	
4 type	name=user	User1
5 click	name=password	
6 type	name=password	123456
7 click	name=type	
8 click	css= .btn:nth-child(4)	
- Log (Bottom):**

```
58: type on name=application_iu win value : User
59: click on id=status OK
60: click on id=status OK
61: click on name=leave OK
62: click on linkText=HOME OK
63: click on linkText=LOGOUT OK
'TestSemua' completed successfully
```

Test Analysis Report

The conclusion after testing, there was no error when we did the selenium test but when we did the test manually, we found some errors such as a web page that cannot connect to the database and the data did not appear on the page that it should. After having done both selenium and manual tests, we can see that this system does not meet the objectives because the web pages and systems do not function properly but in terms of UI the web has a simple and easy to use UI.

Conclusion/Review – Prepared by I Kadek Bagus Paradhita Utama

Did the group meet the objectives defined in Assignment 1?

While working on this Information System Project for Micro Housing, we faced many challenges and difficulties caused by our lack of skills in implementing this kind of project. This is made worse by the spread of the corona virus (COVID-19) which makes it difficult for us to coordinate to complete projects. However, fortunately we are still able to meet the objectives specified in assignment 1, namely, developing information systems that can help young people to find affordable housing in DBKL micro housing facilities by informing the location of the house, rental prices, and rental dates expire.

What went wrong and what went right?

What went wrong in working on this project is, it's very difficult in allocating our time to be able to complete the project, because the world situation is facing coronavirus (COVID-19) so we have difficulty in coordination and although we can communicate online, but because of the busyness we have to do at home, like helping families with economic problems, so often we only have time at night to do the assignment, I personally have to do the assignment until the wee hours of the morning and this makes my body's metabolism disturbed, when in fact the government has appealed so that people are not too stressed at times like this, because if the immune system declines, it can be fatal if the person is infected with COVID-19. Not to mention if my team partner is not cooperative, so it's difficult to do this assignment, so I realize that our project results are not optimal.

What went right about this assignment is that at least the group succeeded in meeting the objectives specified in assignment 1, where the objective was to develop an information system that could help young people to find affordable housing in DBKL micro housing facilities by informing the location of the house, rental prices, and the rental date ends.

What you would have done differently?

What I will do differently is that I personally want to improve the appearance of the web pages that I make or the user interface and its functions so that it can be more easily navigated by the user, as well as providing a more memorable web usage experience.

Conclusion/Review-Prepared by I Nengah Wahyudi Setiawan**Did the group meet the objectives defined in Assignment 1?**

Yes, we did. Luckily, we managed to meet the objectives defined in Assignment 1 such as developing Information System that can help the young people to find an affordable housing in DBKL micro housing facilities by informing the rental prices, micro house location, and when the rental date will be expired.

What went wrong and what went right?

What went wrong:

It is very difficult to allocate our time to working and finish the project because the Covid-19 or Corona virus that have been spread across the globe that limit us to meet face to face. Although we can still use online communication even though it is not as effective as meeting face to face. It is my first time to make a php based website and it makes me feel stressed because I only have a little time to study php from scratch. We are helping our family to improve the economy in this kind of situation.

What went right:

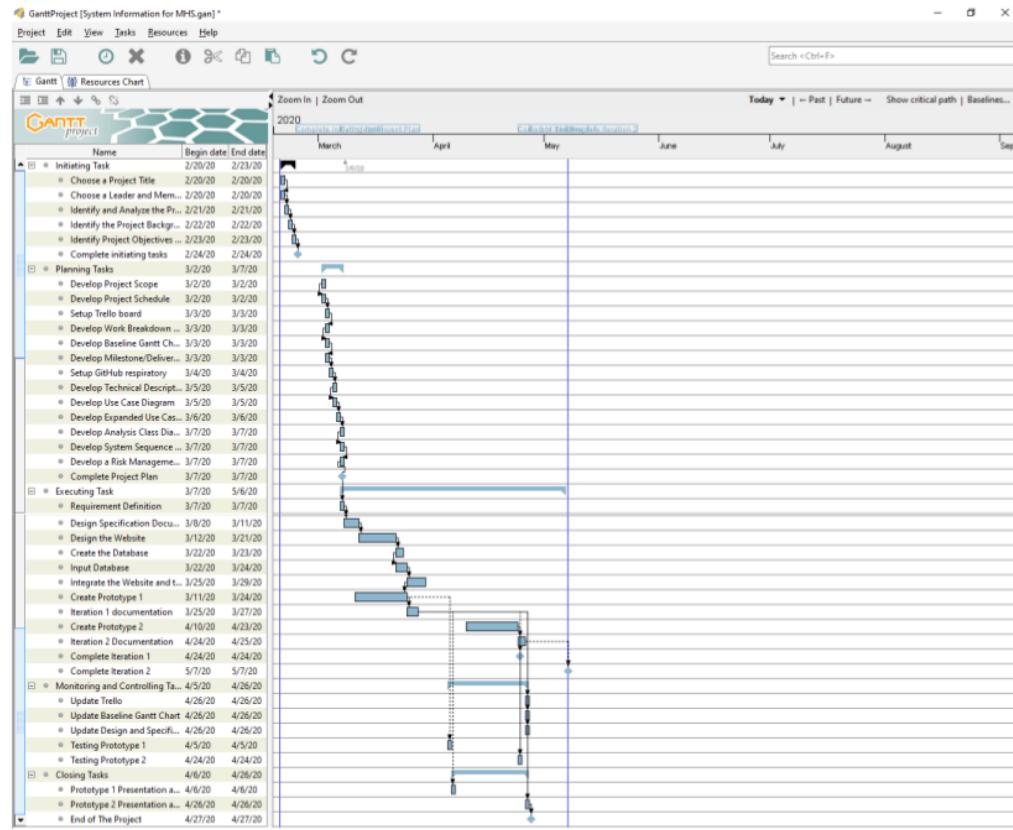
We can at least fulfill the objective in Assignment 1 to help young people to find an affordable housing in DBKL micro housing facility by informing the rental prices, micro house location, and when the rental date will be expired. We also can make an operational website, even though there are some errors with the website likely the coding does not connect to the database and the data does not appear in the view allocated housing.

What would you have done differently?

I would like to study to improve my knowledge in making websites to make it user friendly interface and minimize the errors. We will make better time management to balance between making the project and the other activities

Update Gantt Chart/Trello Board

1. Update Gantt Chart



2. Update Trello Board

Design Specification
in list [Assignment 3](#)

Description

Add a more detailed description...

Follow up from Assignment 1 and 2 Hide completed items Delete

100% 

- Update on the analysis/ design documentation
- Problem faced in Iteration 1 and the solution (if any)

[Add an item](#)

SUGGESTED Join [Feedback](#)

ADD TO CARD Members Labels Checklist Due Date Attachment Cover

POWER-UPS [Get Power-Ups](#)

ACTIONS Move Copy Make Template Watch Archive Share

Iteration 2 Hide completed items Delete

100% 

- Identification of the remaining use-cases to be developed by each
- Algorithm/Identification of plug-ins(optional)
- Screen-Shots
- Test Objectives
- Test Plan, Method, and Tools
- Test Cases: Unit Testing, Integration Testing, System Testing
- Test Analysis Report
- Conclusion/Review
- Updated Trello/Gantt Chart

[Add an item](#)

Conclusion/Review Hide completed items Delete

100% 

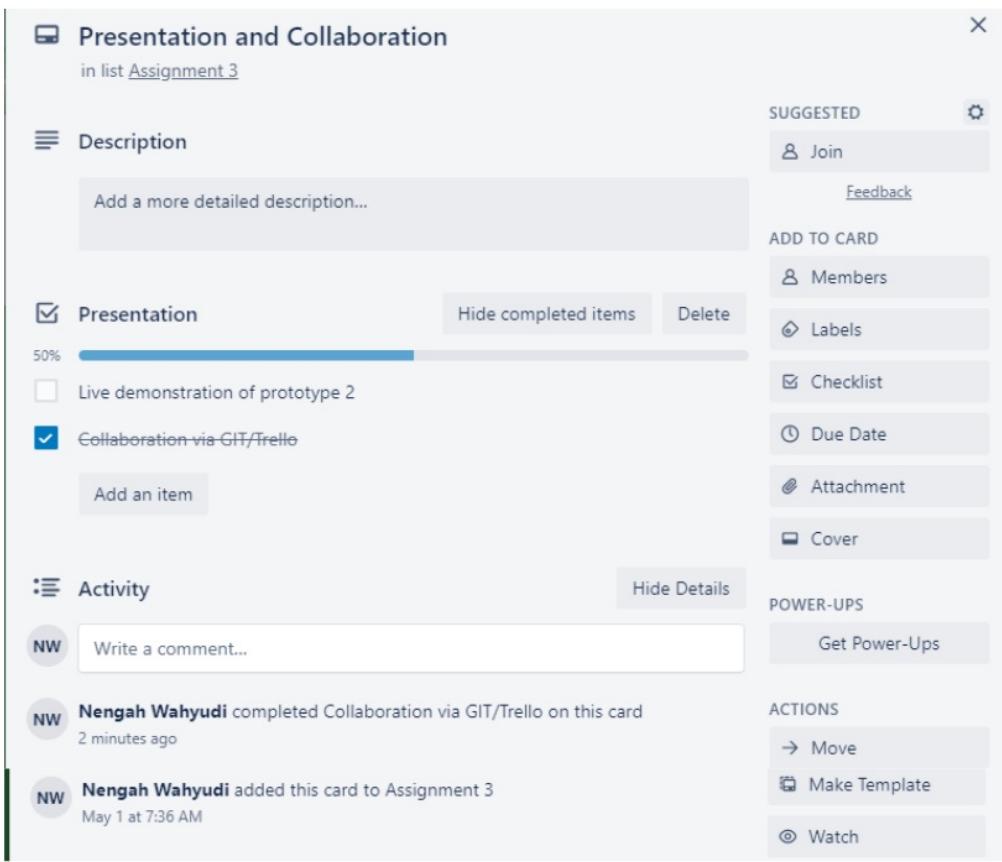
- Did the group meet the objectives defined in Assignment 1?
- What went wrong and what went right?
- What you would have done differently?

[Add an item](#)

Activity Hide Details

NW Write a comment...

- B **bagusparadhita53** completed What you would have done differently? on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed What went wrong and what went right? on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Did the group meet the objectives defined in Assignment 1? on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Conclusion/Review on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Test Analysis Report on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Test Cases: Unit Testing, Integration Testing, System Testing on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Test Plan, Method, and Tools on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Test Objectives on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Screen Shots on this card
yesterday at 11:15 PM
- B **bagusparadhita53** completed Algorithm/Identification of plug-ins(optional) on this card
- NW **Nengah Wahyudi** completed Updated Trello/Gantt Chart on this card
May 7 at 7:48 AM
- B **bagusparadhita53** completed Identification of the remaining usse cases to be develoved by each on this card
May 6 at 10:48 AM
- B **bagusparadhita53** completed Problem faced in Iteration 1 and the solution (if any) on this card
May 6 at 10:48 AM
- B **bagusparadhita53** completed Update on the analysis/ design documentation on this card
May 6 at 10:48 AM
- NW **Nengah Wahyudi** removed Presentation from this card
May 1 at 7:35 AM
- NW **Nengah Wahyudi** added Presentation to this card
May 1 at 7:29 AM
- NW **Nengah Wahyudi** added Conclusion/Review to this card
May 1 at 7:28 AM
- NW **Nengah Wahyudi** added Iteration 2 to this card
May 1 at 7:24 AM
- NW **Nengah Wahyudi** added Follow up from Assignment 1 and 2 to this card
May 1 at 7:18 AM
- NW **Nengah Wahyudi** added this card to Assignment 3
May 1 at 7:17 AM

A screenshot of a Trello card interface. The card title is "Presentation and Collaboration" and it is in the list "Assignment 3".
Description: A text input field with placeholder "Add a more detailed description...".
Checklist:

- Presentation (50% completed)
- Live demonstration of prototype 2
- Collaboration via GIT/Trello

Add to Card: Buttons for "Join", "Feedback", "Members", "Labels", "Checklist", "Due Date", "Attachment", and "Cover".
Activity:

- NW Nengah Wahyudi completed Collaboration via GIT/Trello on this card 2 minutes ago
- NW Nengah Wahyudi added this card to Assignment 3 May 1 at 7:36 AM

Power-Ups: "Get Power-Ups".
Actions: Buttons for "Move", "Make Template", and "Watch".

GitHub

0 commits		1 branch	0 packages	0 releases	2 contributors		
Branch: master ▾		New pull request		Create new file	Upload files	Find file	Clone or download ▾
 BagusParadhita	Add files via upload						Latest commit 2254a2f 33 minutes ago
 Assignment 2_BIT302_I Kadek Bagus Paradhita Utama(E1700866)_I Neng...	Add files via upload						last month
 BIT302 Assignment 1_I Kadek Bagus Paradhita Utama(E1700866)_I Neng...	Add files via upload						last month
 README.md		Initial commit					2 months ago
 System Information for MHS.gan		Add files via upload					last month
 Update.php		Add files via upload					33 minutes ago
 allocateHousing.php		Add files via upload					33 minutes ago
 home.php		Add files via upload					last month
 homeApplicant.php		Add files via upload					33 minutes ago
 homeHousingOfficer.php		Add files via upload					33 minutes ago
 image.jpg		Add files via upload					last month
 login.php		Add files via upload					33 minutes ago
 logout.php		Add files via upload					last month
 microhousingsystem.sql		Add files via upload					33 minutes ago
 registration.php		Add files via upload					last month
 setUpNewResidence.php		Add files via upload					34 minutes ago
 setUpNewResidenceForm.php		Add files via upload					34 minutes ago
 style.css		Add files via upload					34 minutes ago
 submitApplication.php		Add files via upload					34 minutes ago
 submitApplicationForm.php		Add files via upload					34 minutes ago
 validation.php		Add files via upload					34 minutes ago
 viewAllocateHousing.php		Add files via upload					34 minutes ago
 viewAllocateHousingForm.php		Add files via upload					34 minutes ago
 viewApplicantsHousingOfficer.php		Add files via upload					34 minutes ago
 viewApplicantsHousingOfficerForm.php		Add files via upload					34 minutes ago
 viewApplicationsApplicant.php		Add files via upload					34 minutes ago
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 viewResidences.php		Add files via upload					34 minutes ago
 viewResidencesForm.php		Add files via upload					34 minutes ago

Reference

Hadi, D. A., & Hadi, D. A. (2018, October 14). Membuat Login Multi User Level Dengan PHP dan MySQLi. Retrieved from <https://www.malasngoding.com/membuat-login-multi-user-level-dengan-php-dan-mysqli/>¹

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Hadi, D. A., & Hadi, D. A. (2018, March 15). Membuat CRUD Dengan PHP dan MySQLi - Input Data. Retrieved from <https://www.malasngoding.com/membuat-crud-dengan-php-dan-mysqli-input-data/>

Assignment3_BIT302_I Kadek Bagus Paradhita Utama(E1700866)_I Nengah Wahyudi Setiawan(E1700868)

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