ASS3_BIT302_E1700882_E1700873_GroupAssignment - revised

by Rivaldo Soepardhy

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BIT302
Software Engineering

ASSIGNMENT 3
Design & Test Document

"Web-based Information System for MicroHousing System in Kuala Lumpur"

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Introduction

Every software development must have a clear and understandable requirement or specification to ensure developers can keep developing software within the boundary of requirement, while also, developer can adjust to what users need with the software, and developers can optimize the software according to users' need.

Previously, we already created the general requirement of what kind tools and how our web-based information system will be developed. In this document, we will give you the design specification and other deliverables regarding to the project, such as SSD, ERD, Database Design, Wireframe, etc.

Changes & Updates

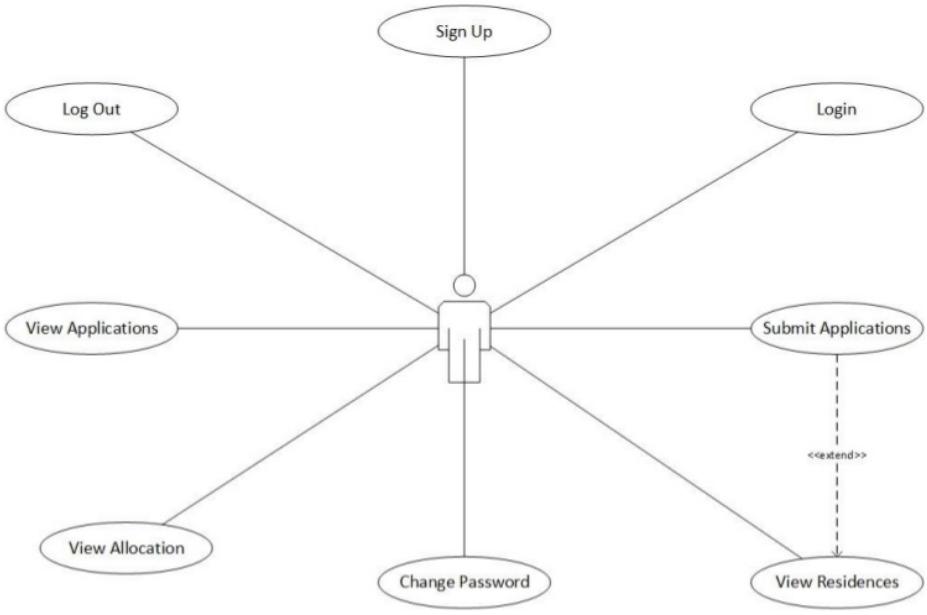
We have been encountering many bugs and errors due to unexpected obstacles along the way. Because of that, we finally decided to change some of our diagrams & design to follow up with new ways that we use to accomplish the task.

From Assignment 1 to 2, we have already update Use Case Diagram, Class Diagram, SSD, ERD, Database Design, Sitemap, and Wireframe. We also have several updates regarding previous Iteration that will be applied in the Iteration 2. The most problem we encounter is that we never expect such hard path or bugs, or errors that will happen when using Laravel framework, due to our short experience of coding. We also still have confusion regarding database design that is hard to implement on real framework such as Laravel that requires deeper coding skills.

The solution that we found is to try a workaround for the coding, and made several changes to designs that after a while, is considered reasonable than previous design.

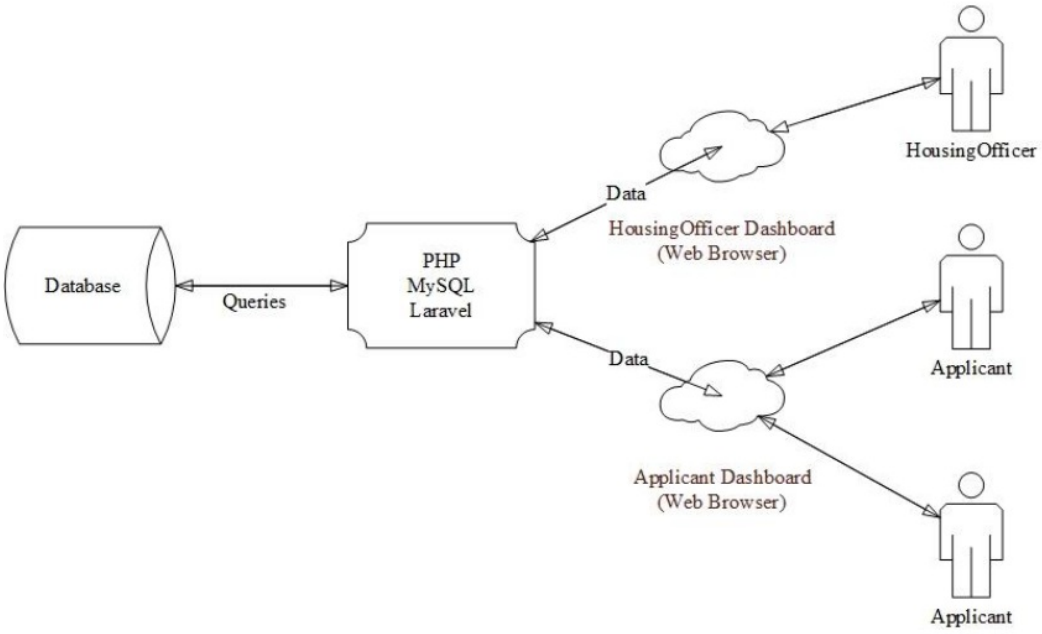
Use Case Diagram

Use Case Diagram with Actor HousingOfficer (Updated)

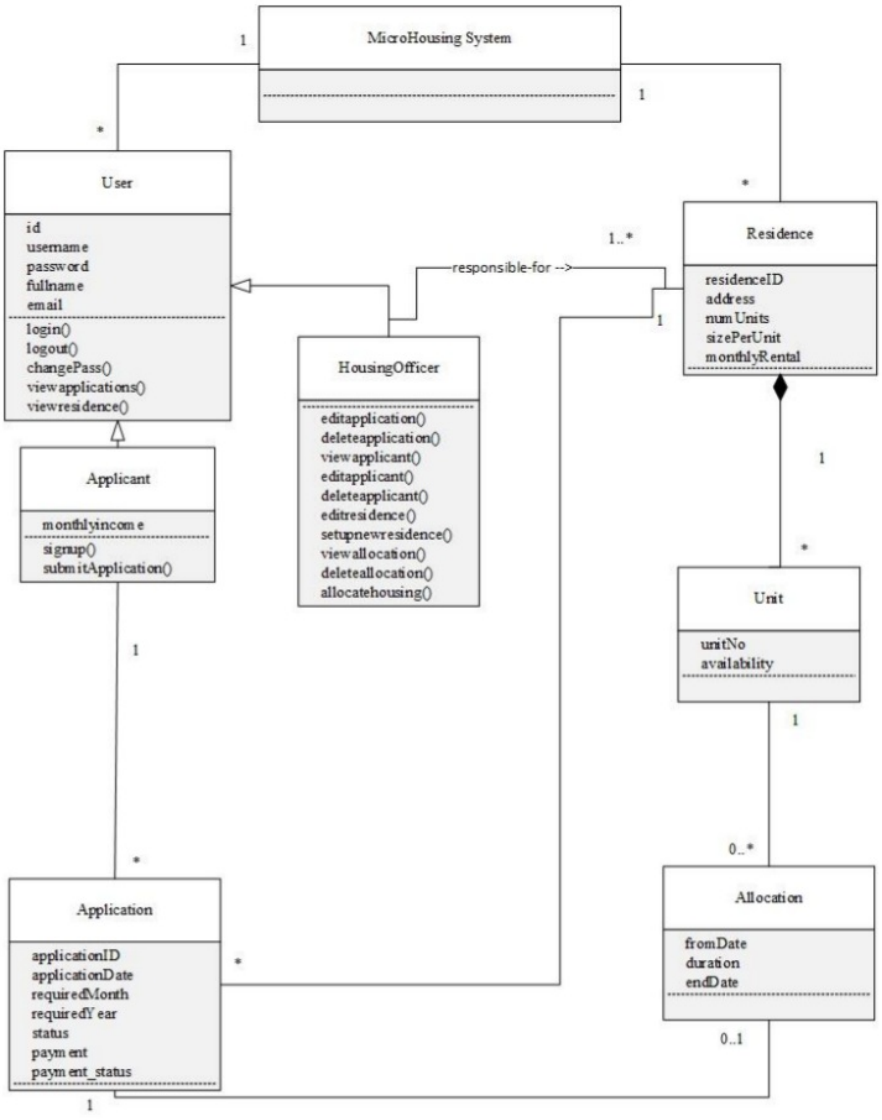


Use Case Diagram with Actor Applicant (Updated)

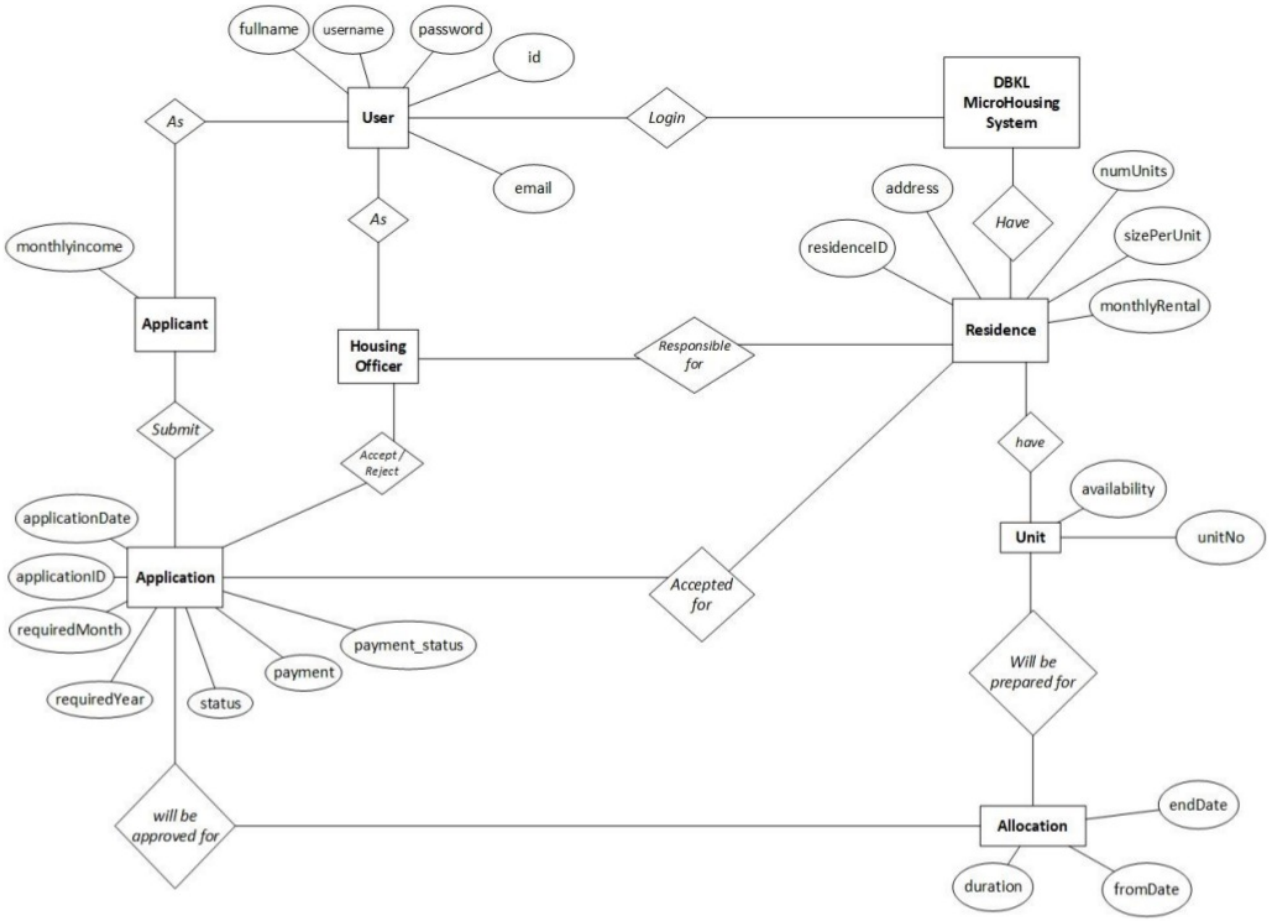
Architectural Design



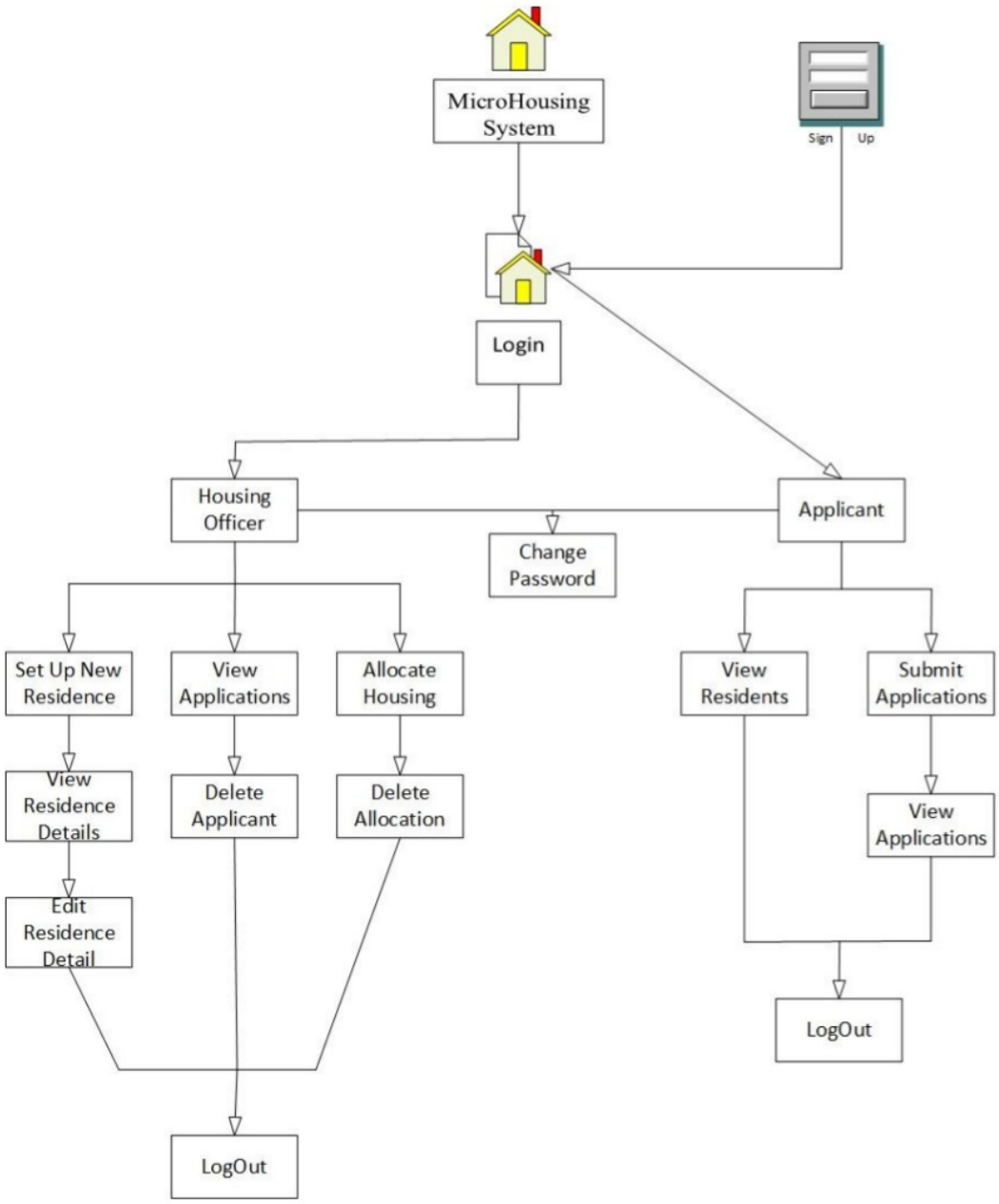
Class Diagram Design



Entity Relationship Diagram (ERD)

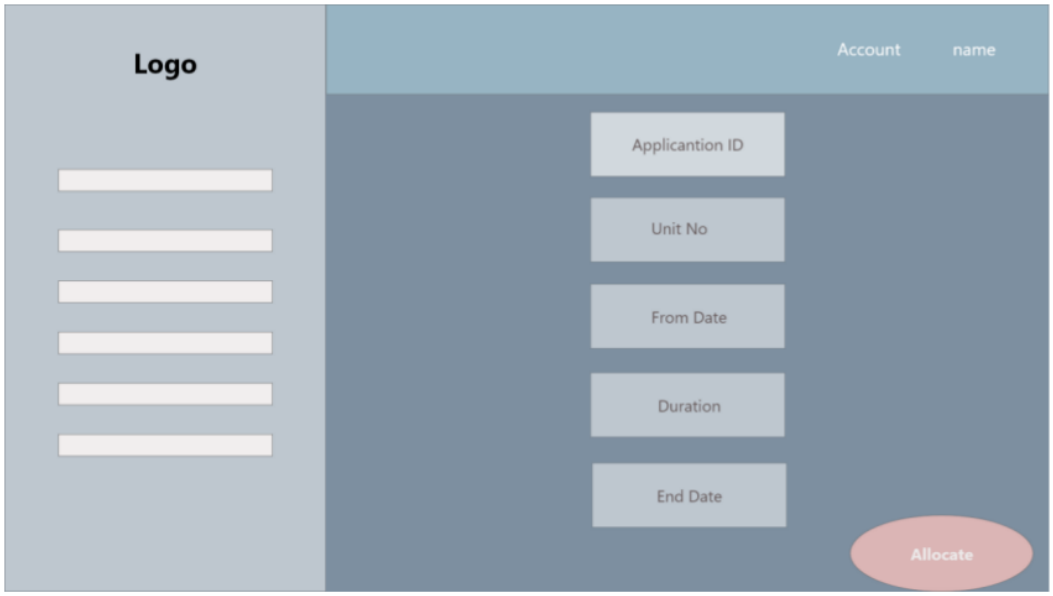


Sitemap

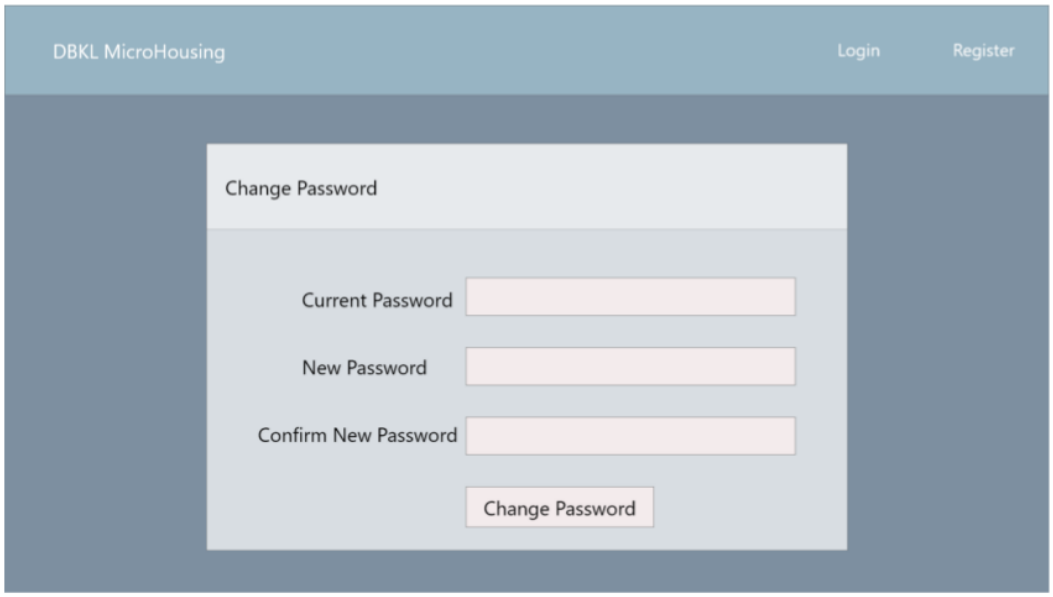

MicroHousing System
Sign
Up
Login
Housing Officer
Applicant
Change Password
Set Up New Residence
View Applications
Allocate Housing
View Residents
Submit Applications
View Residence Details
Delete Applicant
Delete Allocation
View Applications
Edit Residence Detail
LogOut
LogOut

Wireframe

Housing Officer

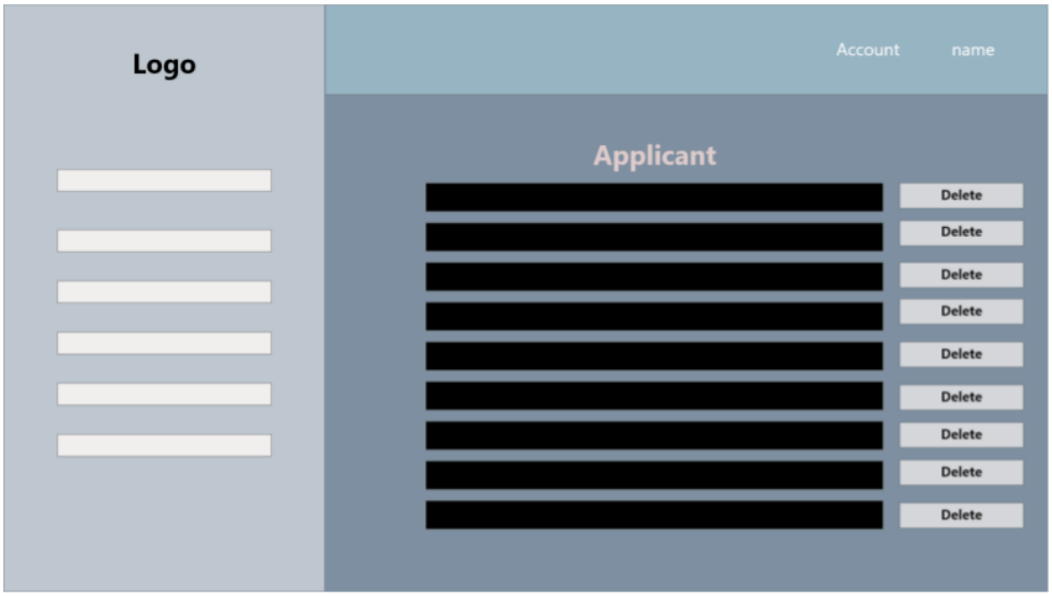


Allocate Housing

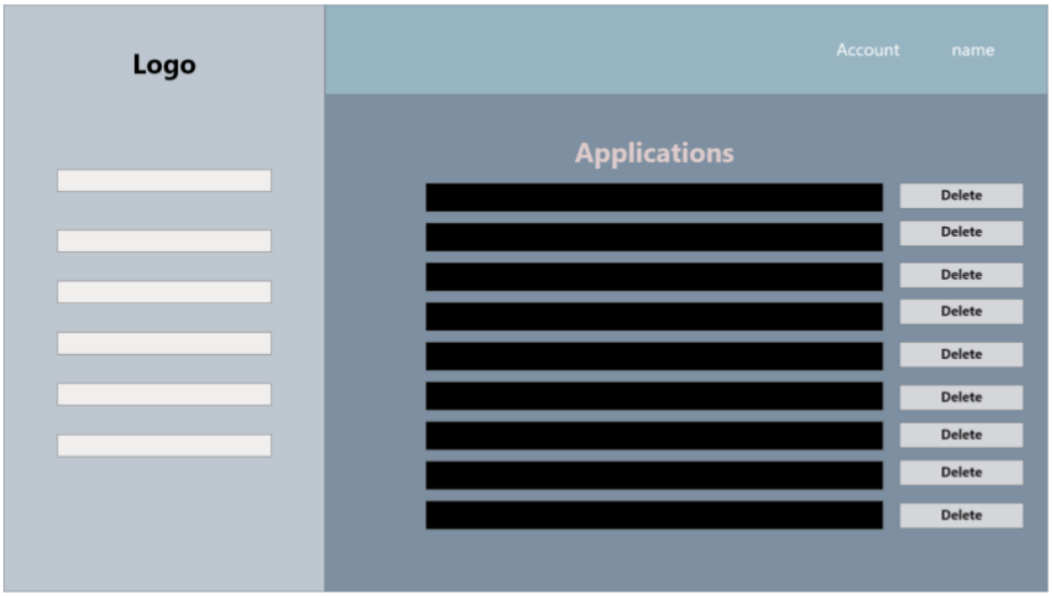


Change Password

Delete Allocation

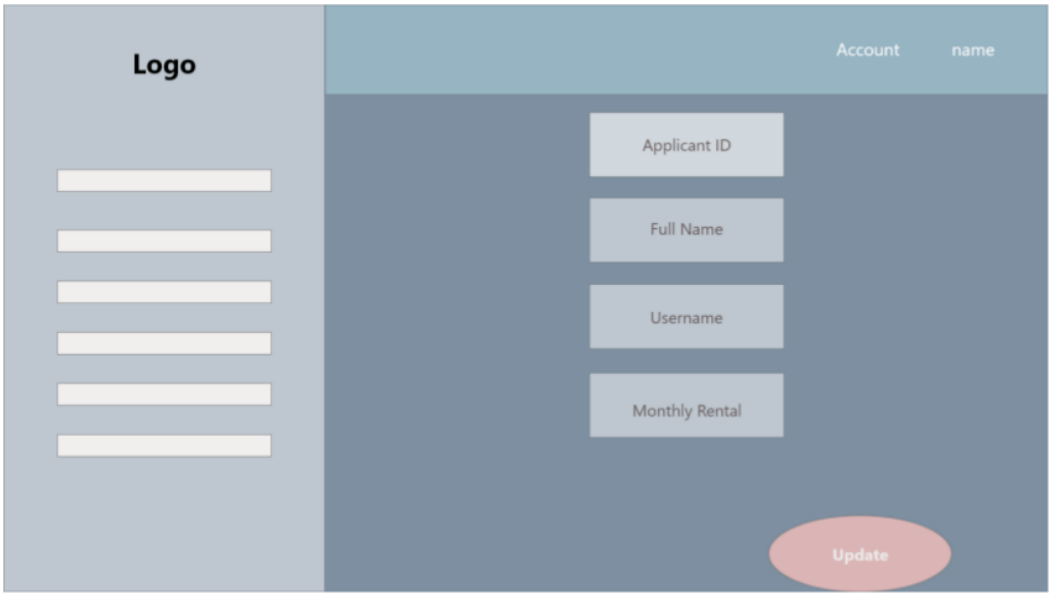


Delete Applicant

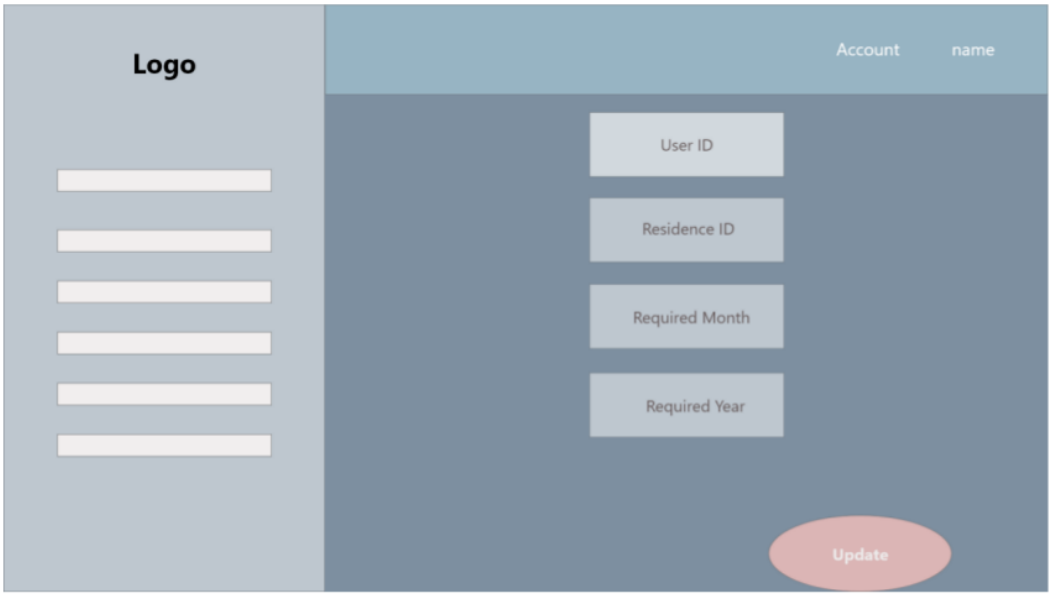


Delete Applications

Delete Housing Officer

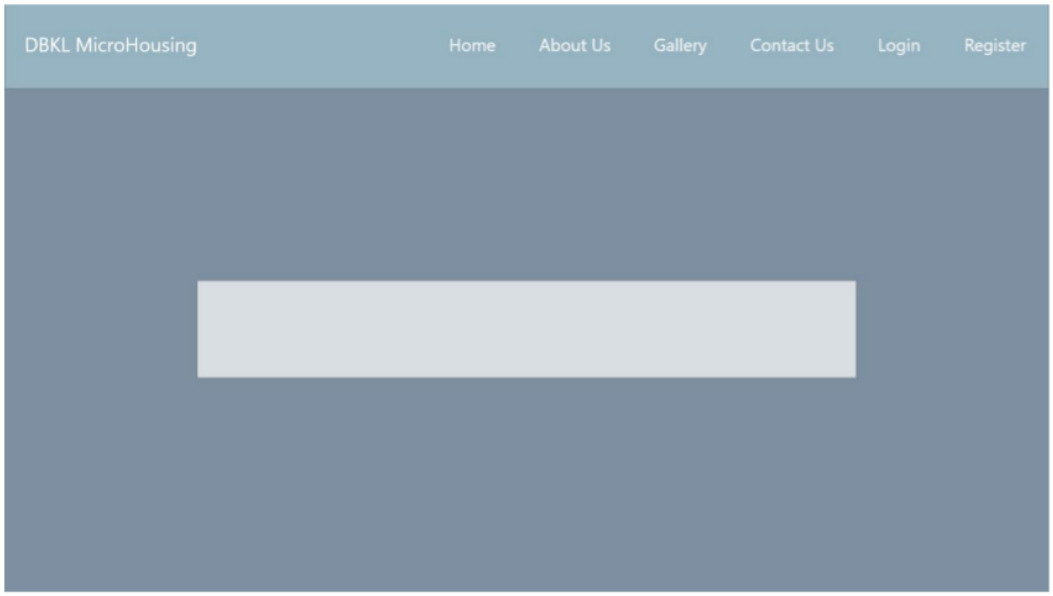


Edit Applicant

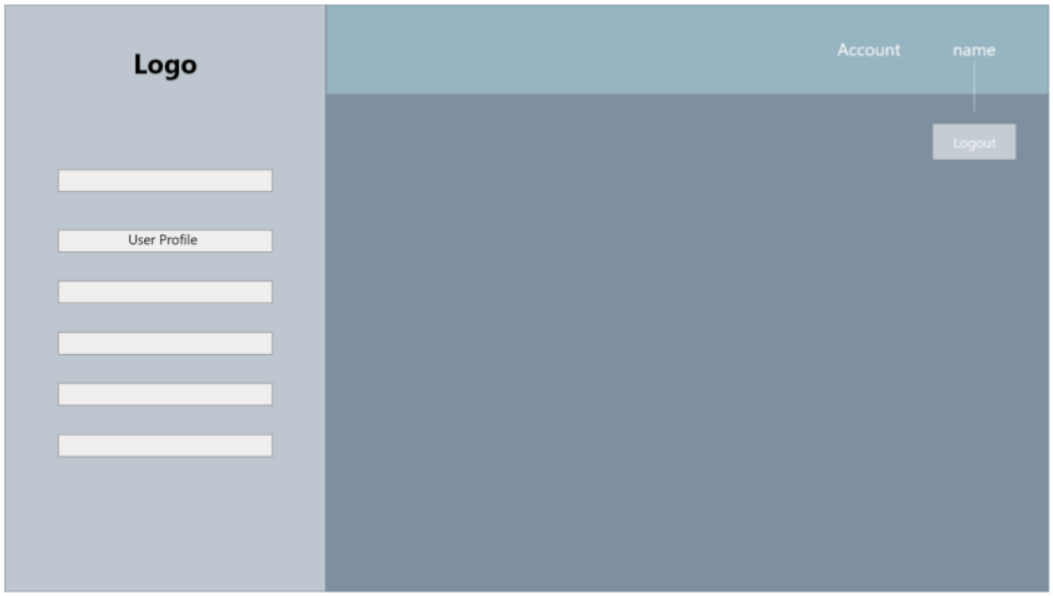


Edit Applications

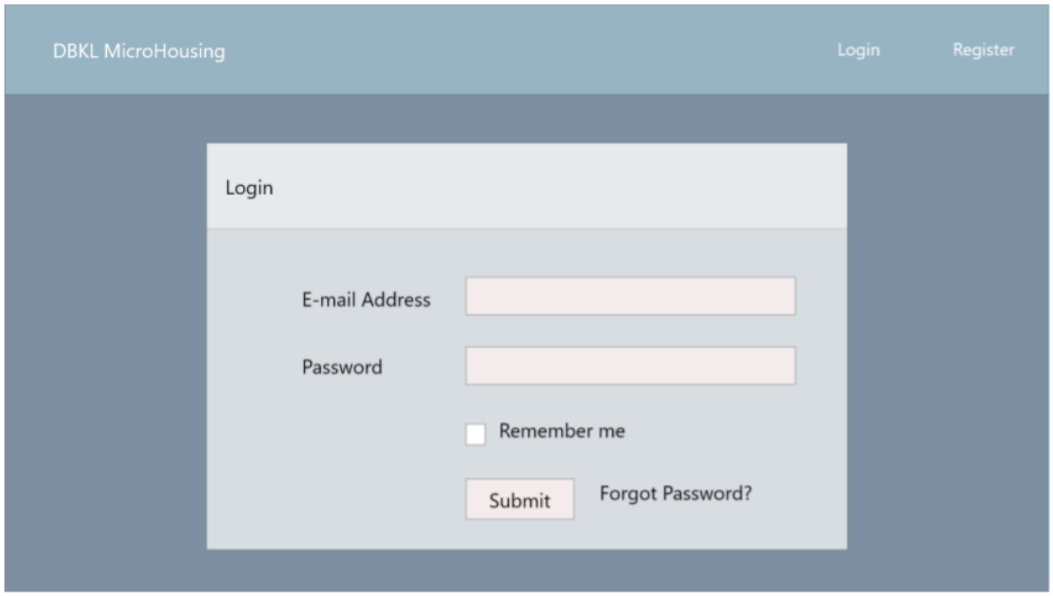
Edit Residence



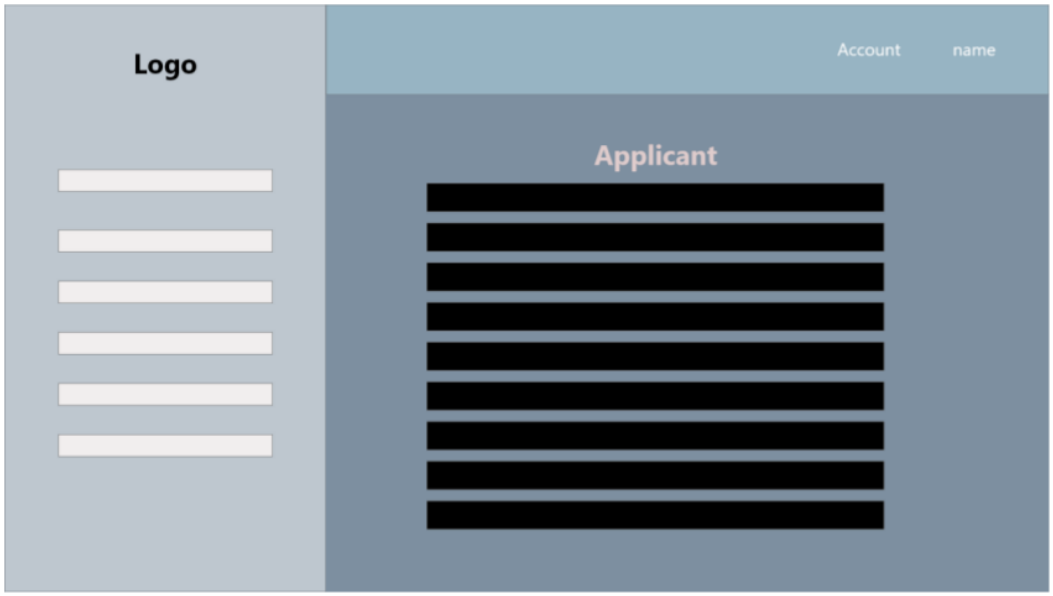
Homepage



Logout Housing Officer



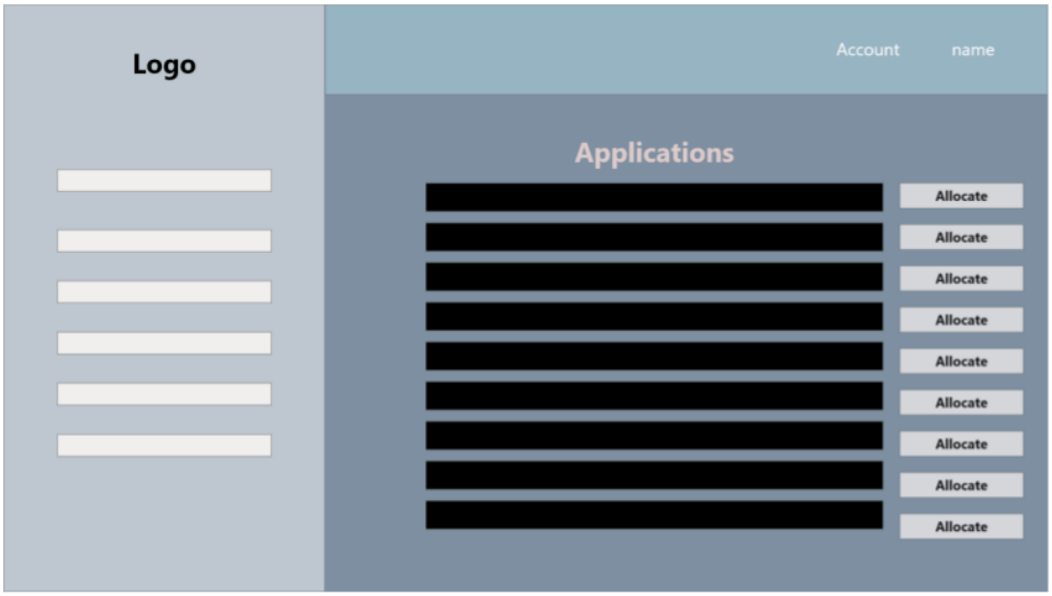
Login



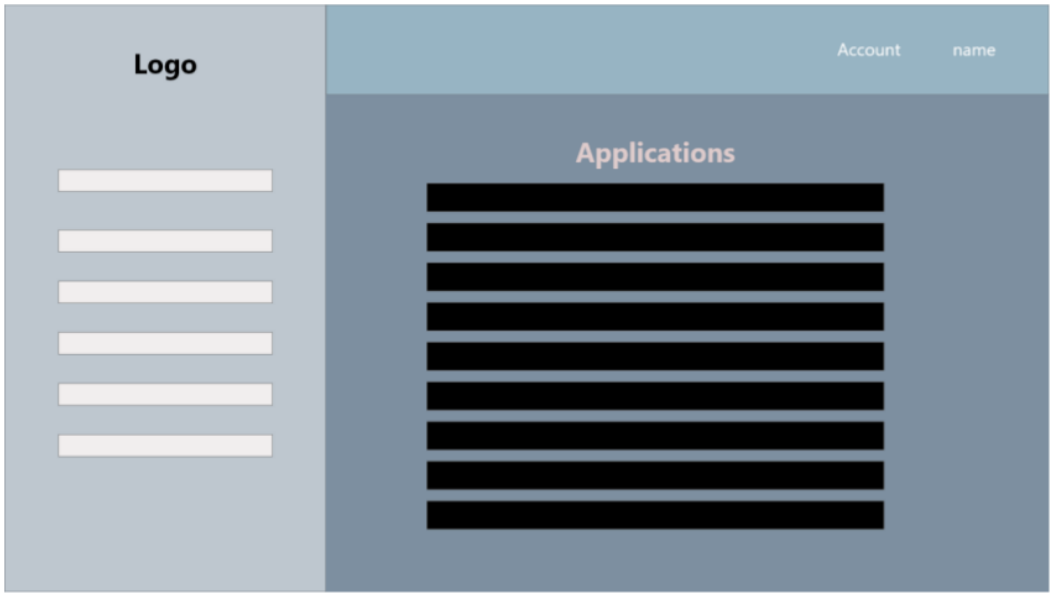
Registered Applicant

Registered Housing Officer

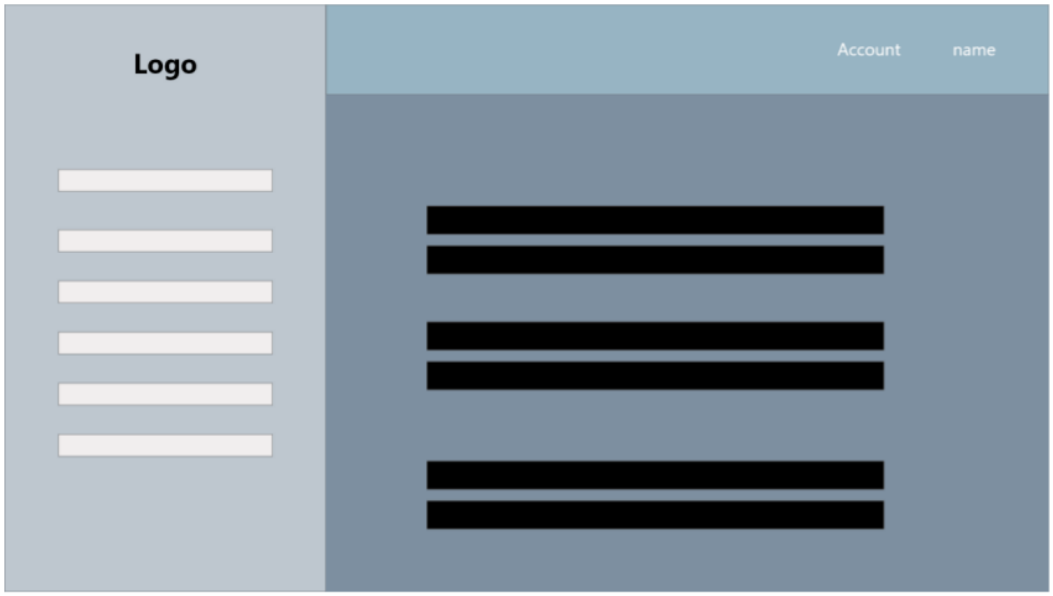
Set Up New Residence



View Allocation

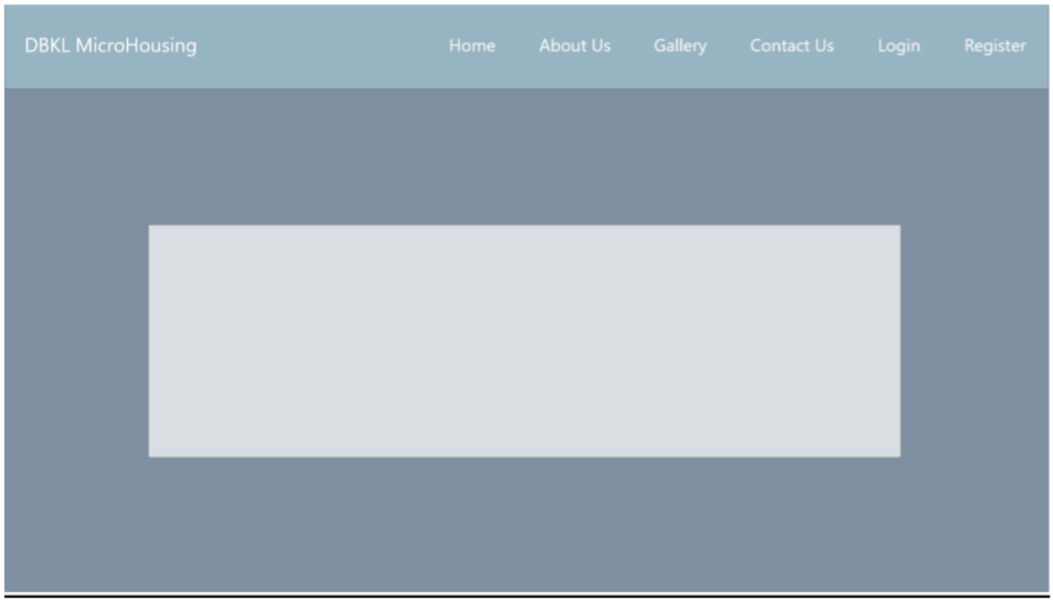


View Applications

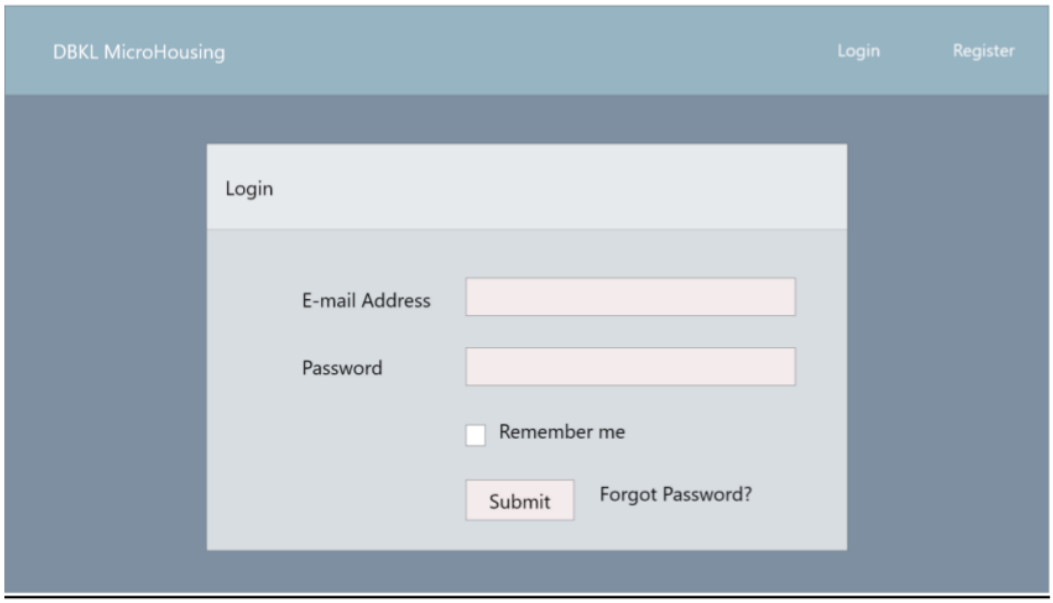


View Residence Housing Officer

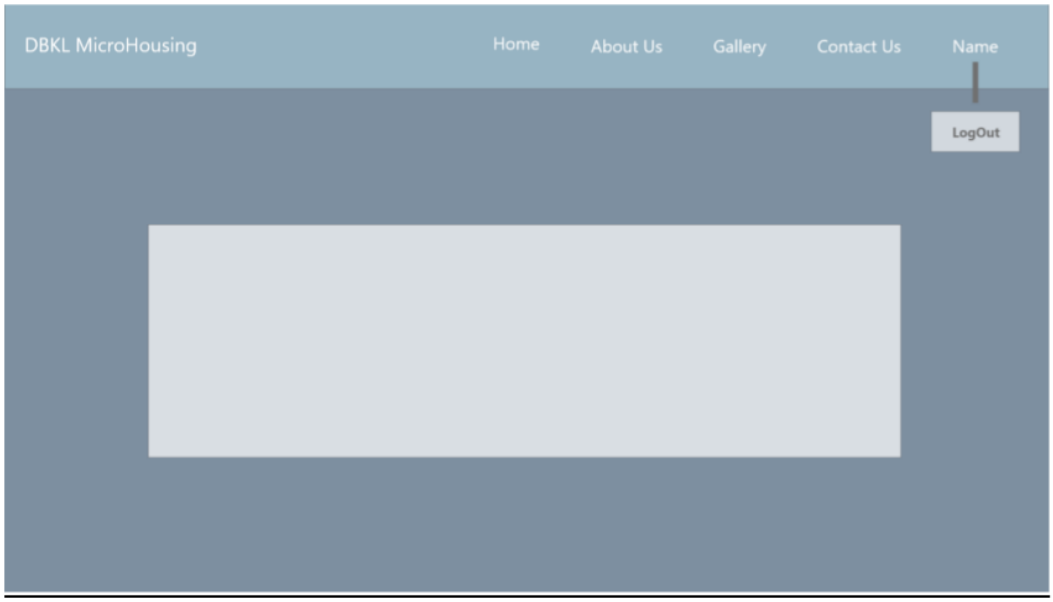
Applicant



Homepage

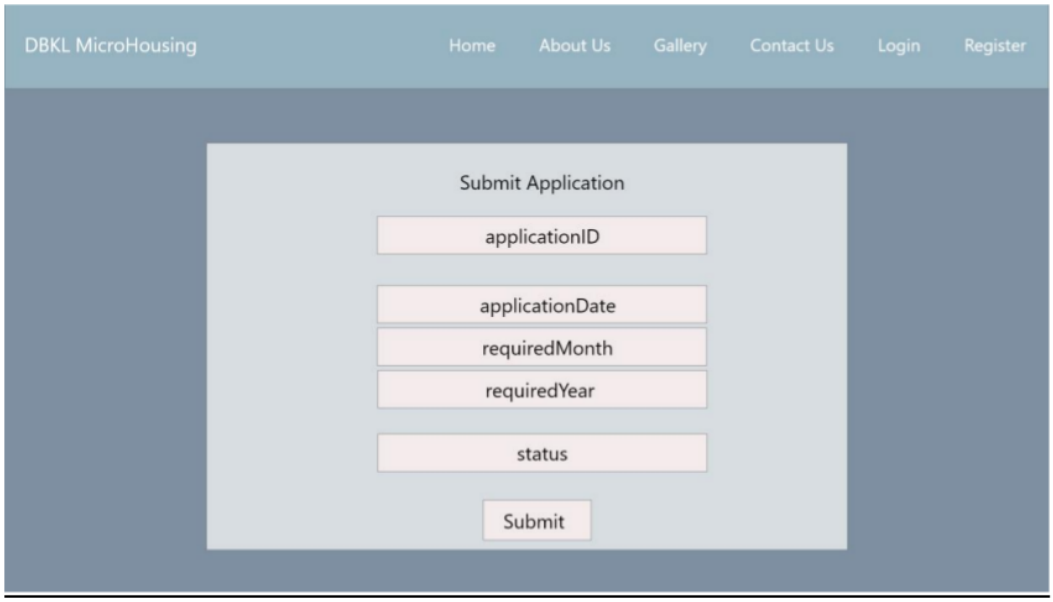


Login

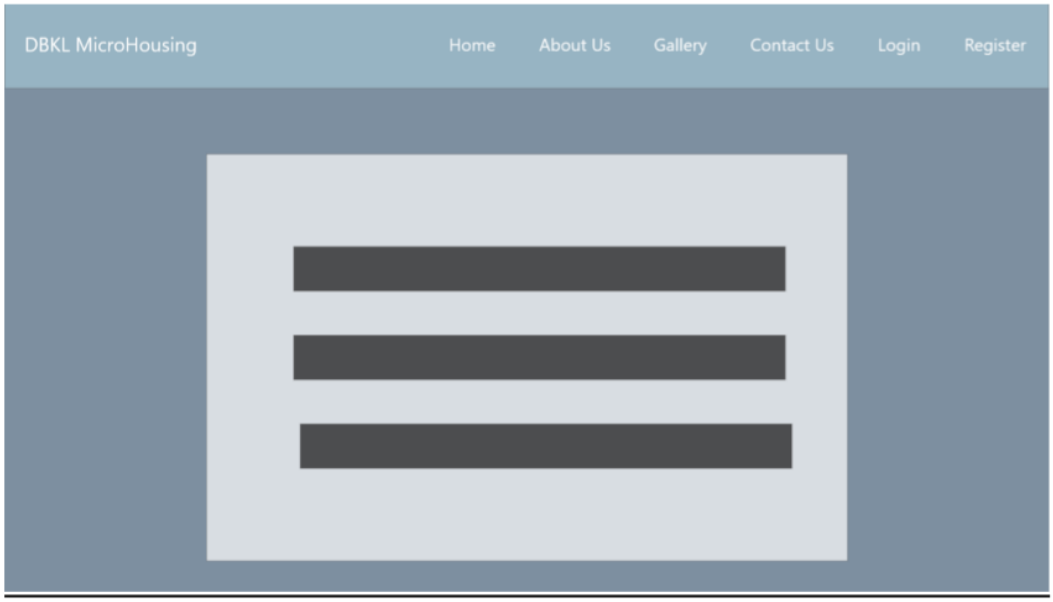


Logout

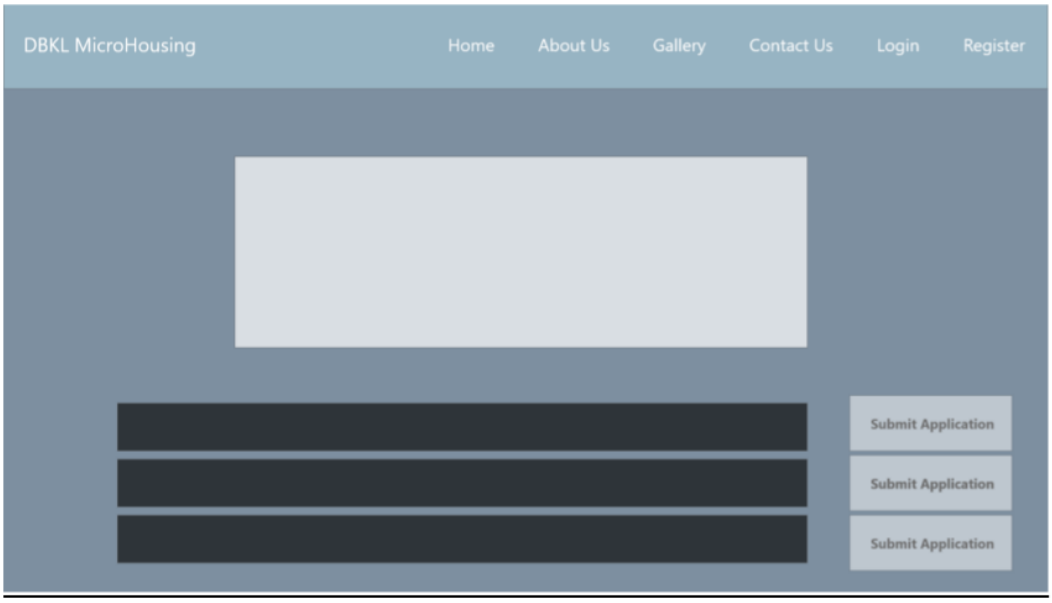
Register



Submit Applications



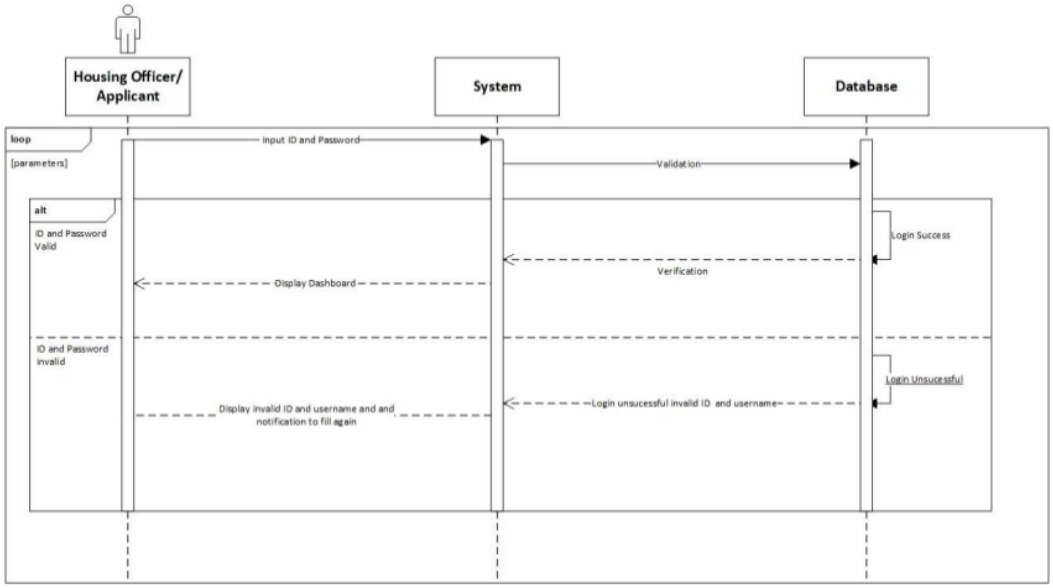
View Applications



View Residence

System Sequence Diagram + Contracts

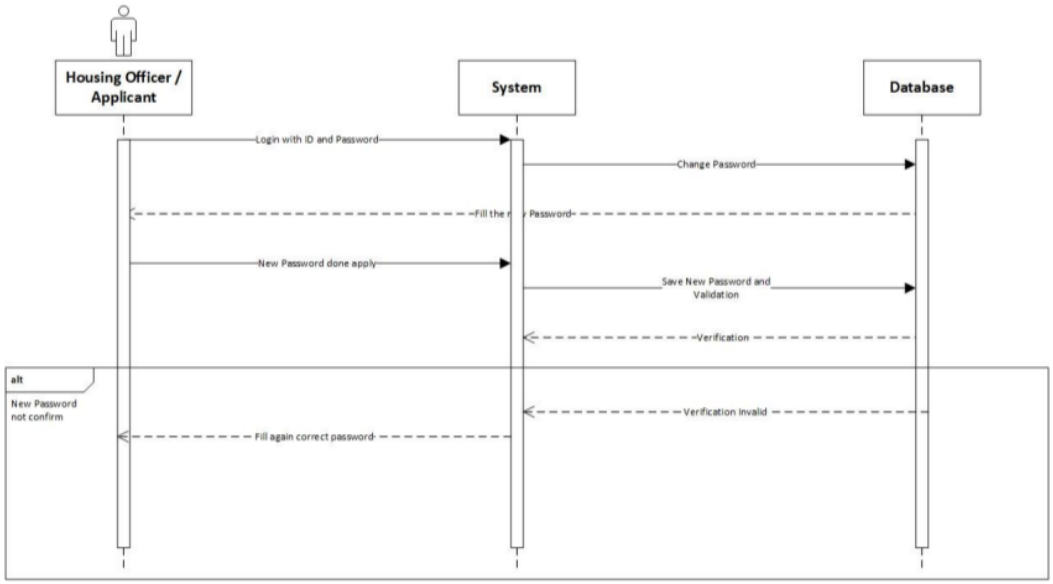
1. Login



Prepared by: Luh Wulandari Maharani

Cross References	Login
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

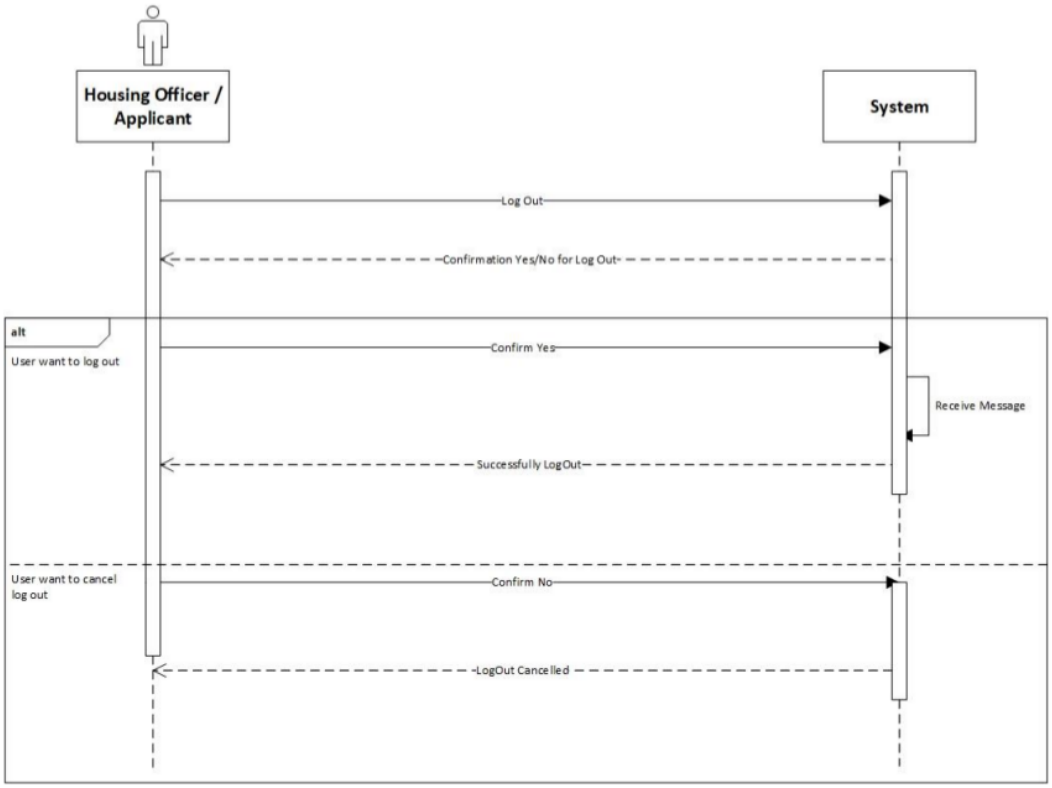
2. Change Password



Prepared by: Luh Wulandari Maharani

Cross References	Change Password
Operation	Enter current password
Responsible	To change the password
Pre-conditions	The new password must be available
Post-conditions	Successfully changed password
Cross References	**Change Password**
Operation	Enter current password
Responsible	To change the password
Pre-conditions	The user must be enter the new password again to confirm
Post-conditions	Fill again the form with the new password

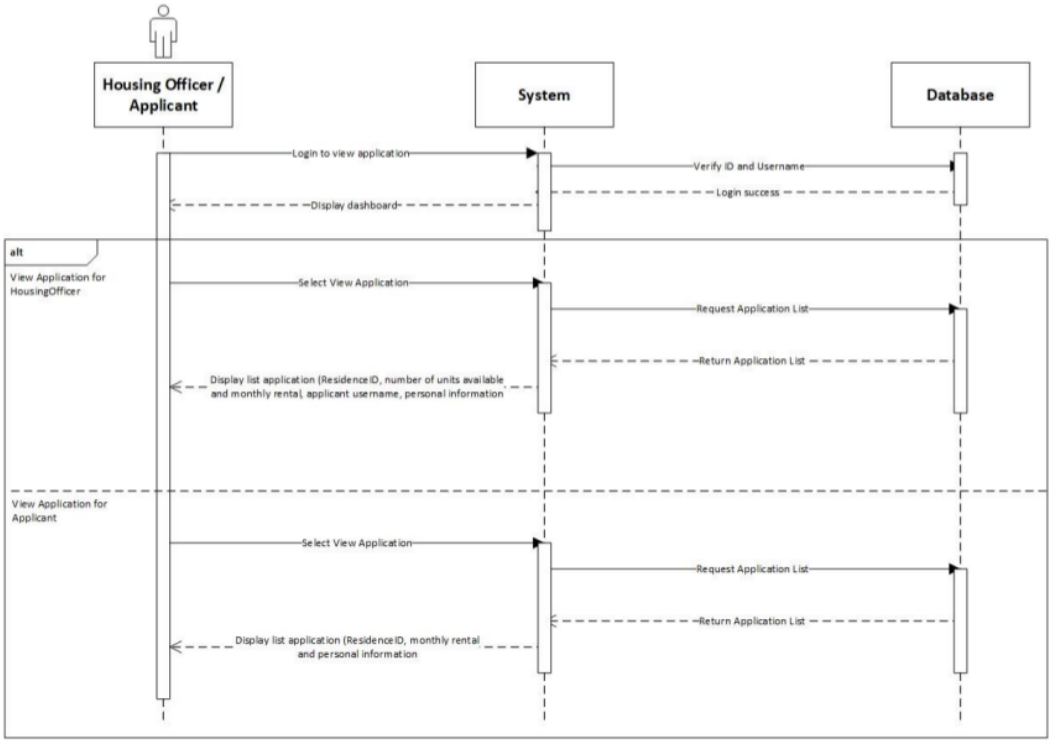
3. Log Out



Prepared by: Luh Wulandari Maharani

Cross References	Log Out
Operation	User want to log out
Responsible	To log out from the system
Pre-conditions	The user accepts that they want to log out
Post-conditions	Successfully log out
Cross References	**Log Out**
Operation	Cancel to log out
Responsible	To cancel log out from the system
Pre-conditions	The user cancel log out by click the “No” option
Post-conditions	Log out cancelled

4. View Applications



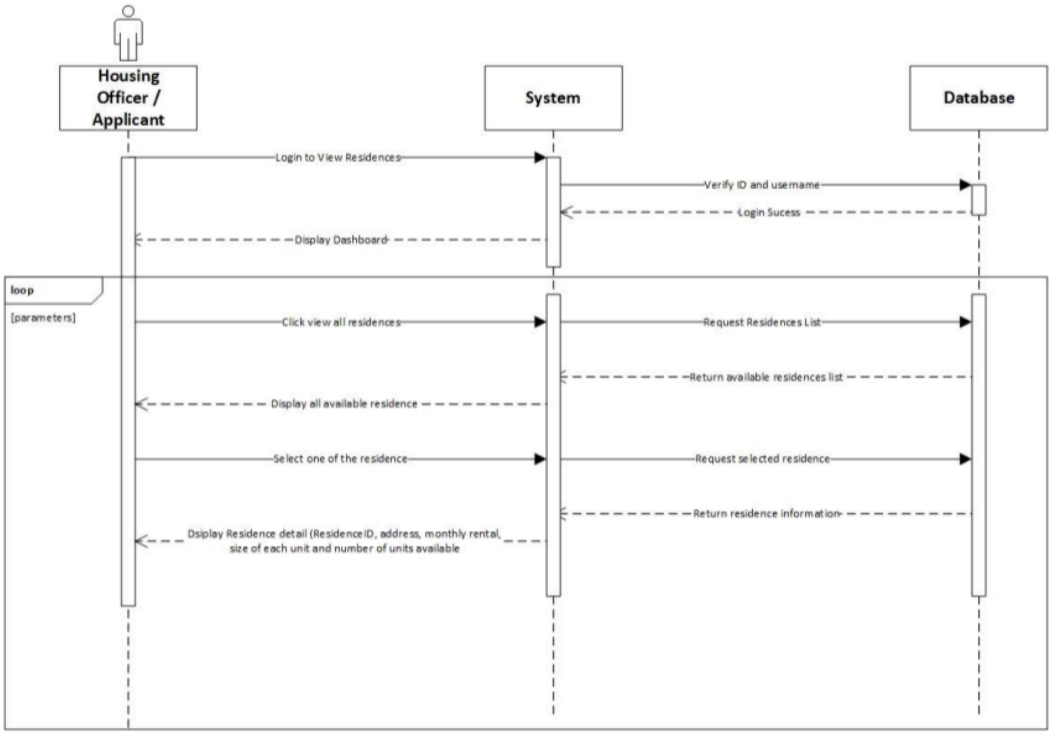
Prepared by: Luh Wulandari Maharani

Cross References	View Applications
Operation	Login with username and password
Responsible	To get access to view the applications
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	View Applications
Operation	View Application in Housing Officer
Responsible	To view a list for the Residence that Housing Officer is responsible
Pre-conditions	The application object must be available
Post-conditions	The list of application with status for the Residence that the Housing Officer is responsible, showing the residence ID, number of units available, monthly rental, application username and personal information

Cross References	View Applications
Operation	View Application in Applicant
Responsible	To view a list of application that have been made for applicant
Pre-conditions	The application object must be available
Post-conditions	The list of application that have been made by the applicant, showing the residence ID, monthly rental and personal information

5. View Residences

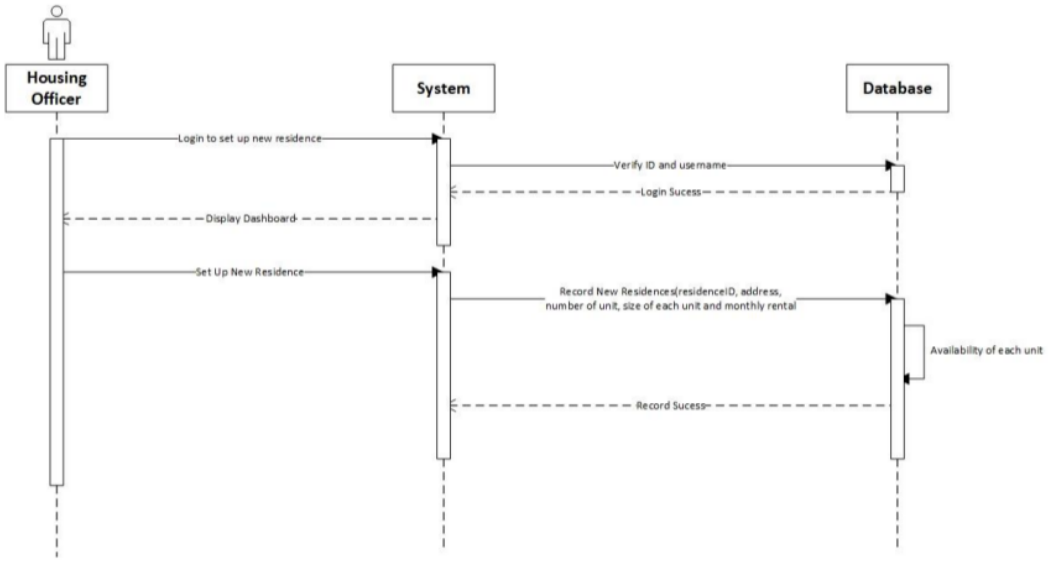


Prepared by: Luh Wulandari Maharani

Cross References	View Residences
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	View Residences
Operation	Click view all residences
Responsible	To get all list of the residences
Pre-conditions	The residence object must be available
Post-conditions	Success to display all residences of all residences
Cross References	**View Residences**
Operation	Select the residence to view
Responsible	To get information about selected residences
Pre-conditions	The residence ID must be available
Post-conditions	Success to display detail information about the selected residences

6. Set Up New Residences

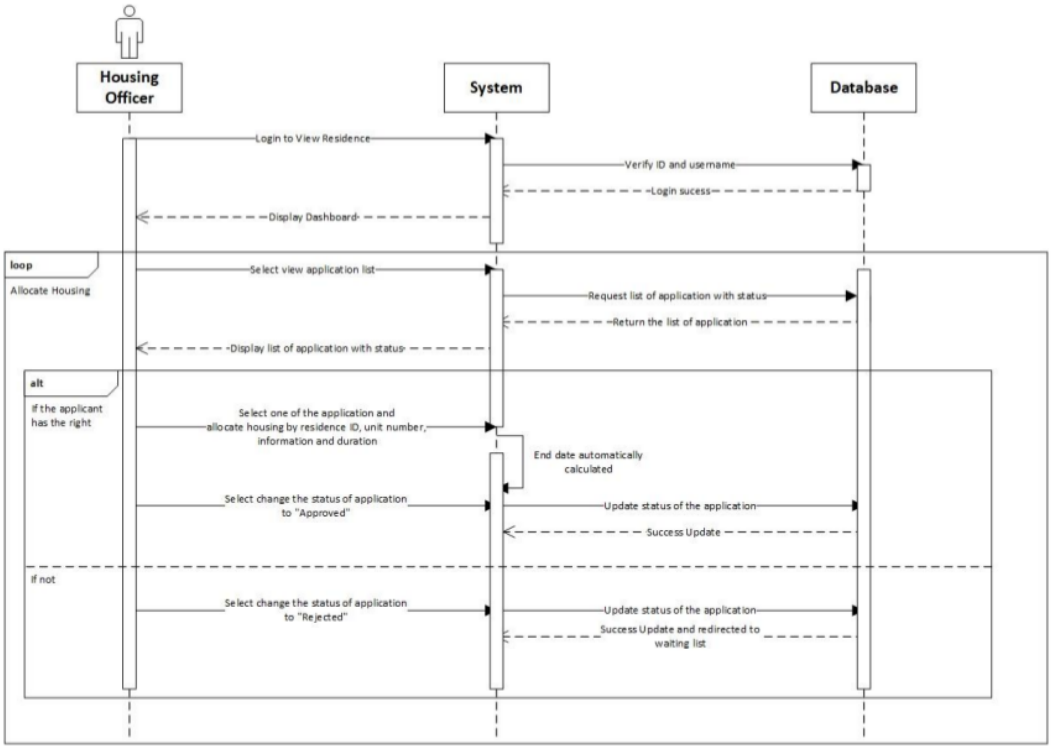


Prepared by: Luh Wulandari Maharani

Cross References	Set Up New Residences
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Set Up New Residences
Operation	Set up new residences
Responsible	To set up the new residences by input the residenceID, address, number of units available, size of each unit and monthly rental
Pre-conditions	Object residenceID, address, number of units available, size of each unit and monthly rental must be available
Post-conditions	New residences was successfully added to the system

7. Allocate Housing

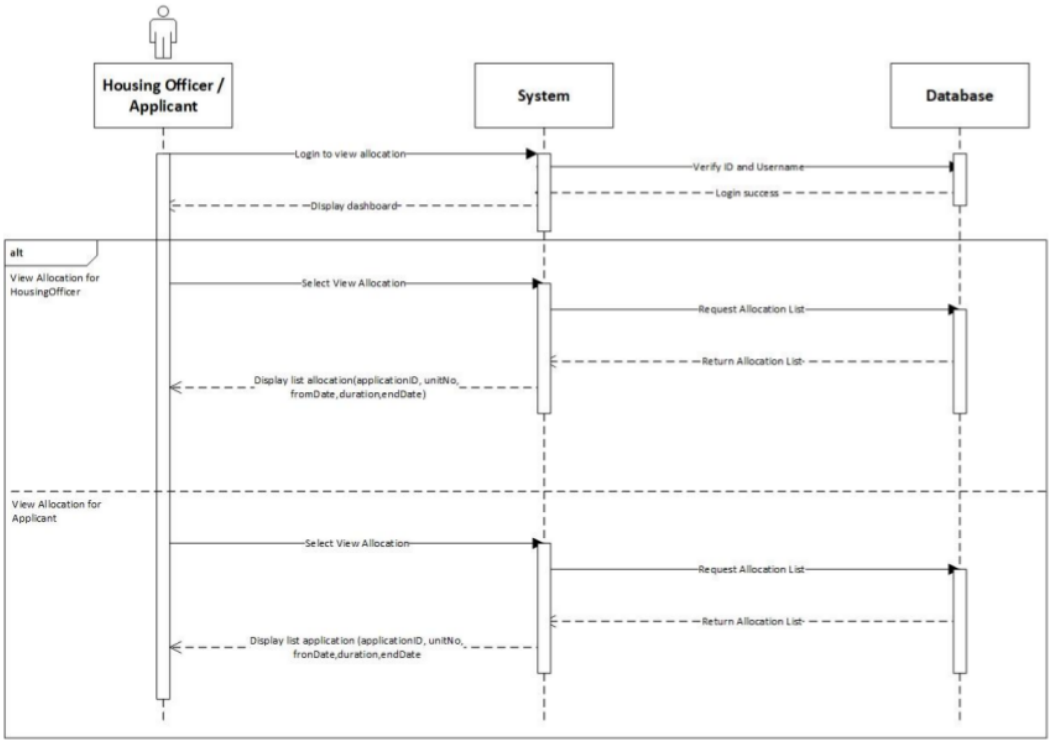


Prepared by: Luh Wulandari Maharani

Cross References	Allocate Housing
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Allocate Housing
Operation	Select view application list
Responsible	To get the list of all application
Pre-conditions	The application object must be available
Post-conditions	Success displayed list of all application with status
Cross References	**Allocate Housing**
Operation	Select one of the application and allocate the housing
Responsible	To allocate the housing for an application
Pre-conditions	Object residenceID, unit number, from date and duration must be available
Post-conditions	Success create allocation object based on data input
Cross References	**Allocate Housing**
Operation	Select to changed status of to be “Approved”
Responsible	To change the status to “Approved”
Pre-conditions	Application object must be available
Post-conditions	Success changed the application status
Cross References	**Allocate Housing**
Operation	Select to changed status of to be “Rejected”
Responsible	To change the status to “Rejected”
Pre-conditions	Application object must be available
Post-conditions	Success changed the application status and redirected to waiting list

8. View Allocation

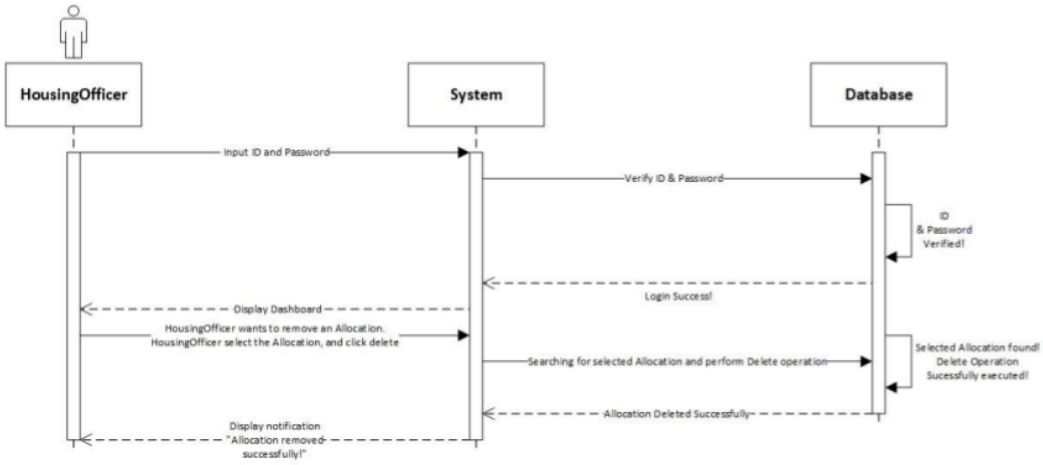


Prepared by: Luh Wulandari Maharani

Cross References	View Allocation
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	View Allocation
Operation	Click view all allocation
Responsible	To get all list of the allocation
Pre-conditions	The application object must be available
Post-conditions	Success to display all allocation of all allocation
Cross References	**View Allocation**
Operation	Select the application to view
Responsible	To get information about selected application
Pre-conditions	The application ID must be available
Post-conditions	Success to display detail information about the selected residences

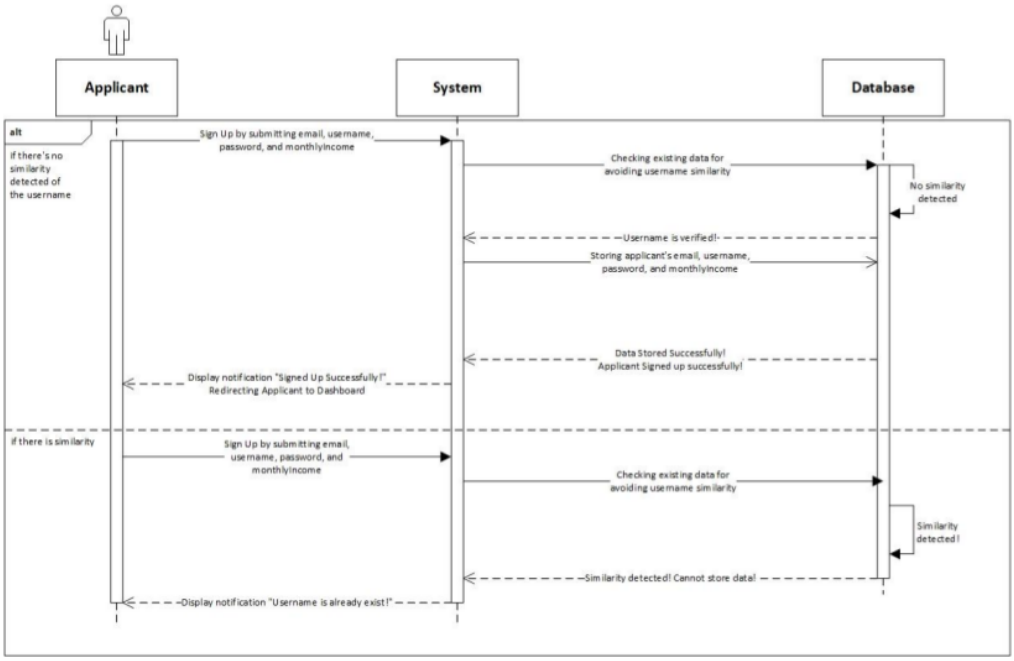
9. Delete Allocation



Prepared by: Luh Wulandari Maharani

Cross References	Delete Allocation
Operation	Login with ID and username
Responsible	To access dashboard, and delete allocations
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard
Cross References	**Delete Allocation**
Operation	Delete Allocation
Responsible	To remove an allocation
Pre-conditions	The allocation object must be available, and the allocation is no longer in place
Post-conditions	Allocation object will be removed successfully

10. Sign Up Applicant

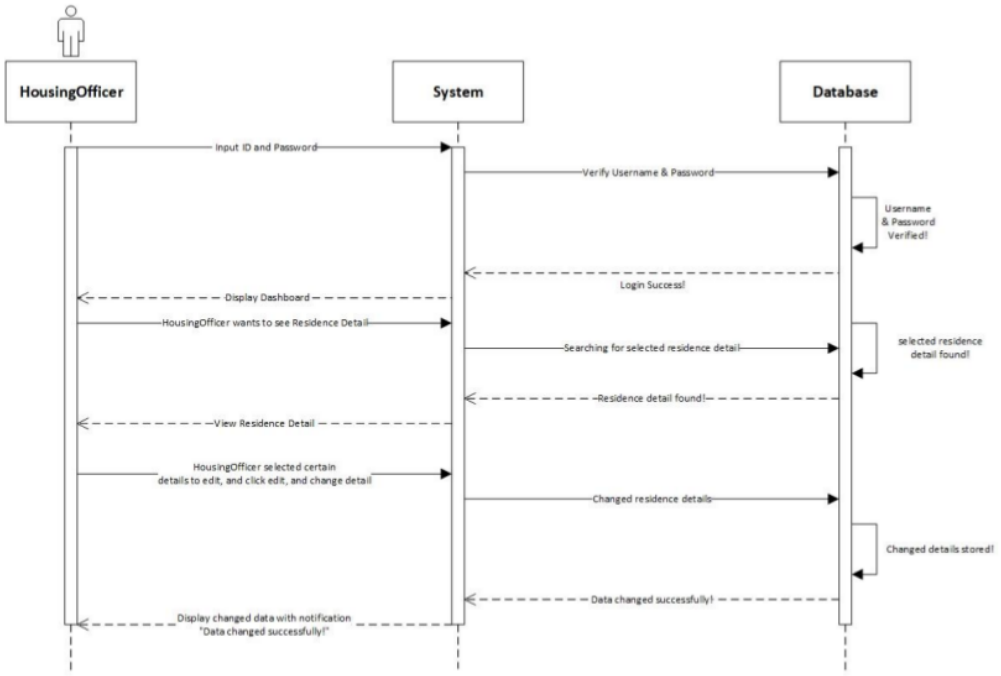


Prepared by: Rivaldo Bagus Soepardhy

Cross References	Sign up Applicant
Operation	Sign up with email, username, password, and monthlyIncome
Responsible	To be registered in system and able to access the main page
Pre-conditions	• Email must be available • Username must be available • Password must be available • MonthlyIncome must be available
Post-conditions	• Username is verified (no similarity detected) • Registered in System • Display dashboard

Cross References	Sign up Applicant
Operation	Sign up with email, username, password, and monthlyIncome
Responsible	To be registered in system and able to access the main page
Pre-conditions	• Email must be available • Username must be available • Password must be available • MonthlyIncome must be available
Post-conditions	• Username is not verified (already existed in system) • Applicant must re-enter new username.

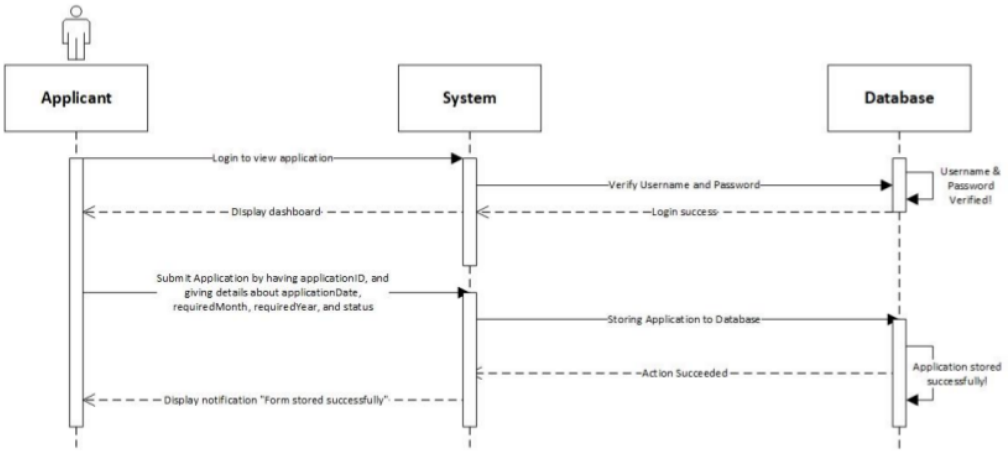
11. Edit Residence



Prepared by: Rivaldo Bagus Soepardhy

Cross References	**Edit Residence Detail**
Operation	Login with username and password
Responsible	To get access to view the applications
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard
Cross References	**Edit Residence Detail**
Operation	Edit residenceID, address, numUnits, sizePerUnit, monthlyRental
Responsible	To change certain Residence Detail
Pre-conditions	We will need **one of** or **all of** the details below: • Email must be available • Username must be available • Password must be available • MonthlyIncome must be available
Post-conditions	Residence Detail changed successfully

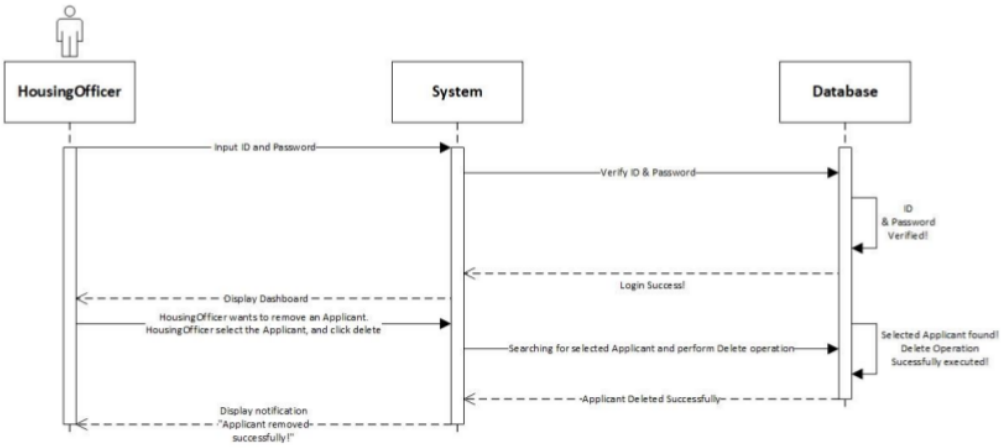
12. Submit Application



Prepared by: Rivaldo Bagus Soepardhy

Cross References	**Submit Application**
Operation	Login with username and password
Responsible	To get access to view the applications
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard
Cross References	**Submit Application**
Operation	View Residence & Select Residence
Responsible	To submit applicant's application to the database.
Pre-conditions	• Applicant is already logged in to the system • Applicant has already determine the desired residence
Post-conditions	User will view the list of the residence, and then select the desired residence.
Cross References	**Submit Application**
Operation	Submit applicationID, applicationDate, requiredMonth, requiredYear, and status
Responsible	To submit applicant's application to the database
Pre-conditions	Applicant has already selected the residence. We will need **all of** the details below: • applicationID will be given by system automatically • applicationDate must be available • requiredMonth must be available • requiredYear must be available • status will be given by system automatically
Post-conditions	Application will be stored successfully, and will be on waiting list for the approval & arrangement by HousingOfficer.

13. Delete Applicant

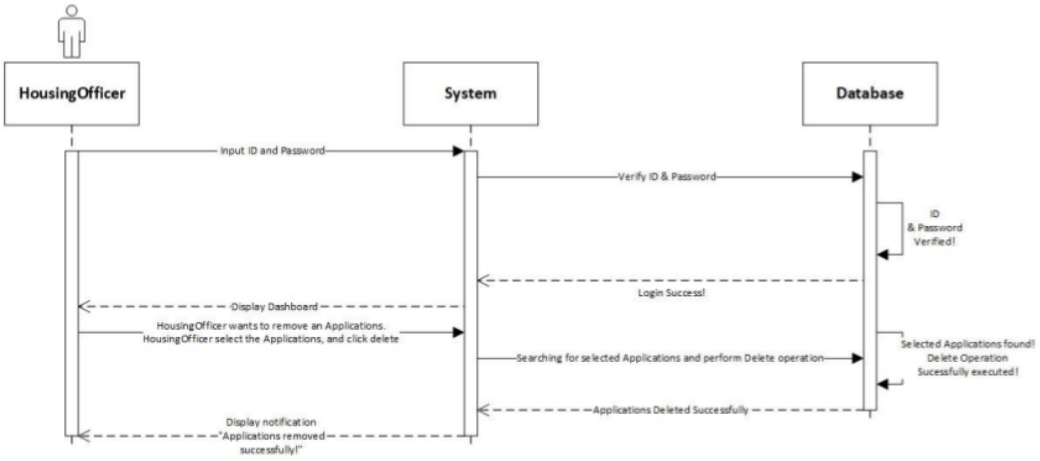


Prepared by: Rivaldo Bagus Soepardhy

Cross References	Delete Applicant
Operation	Login with ID and username
Responsible	To access dashboard, and delete applicant
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Delete Applicant
Operation	Delete Applicant
Responsible	To remove an applicant
Pre-conditions	The applicant object must be available, and the applicant is no longer in place (checkout)
Post-conditions	Applicant object will be removed successfully

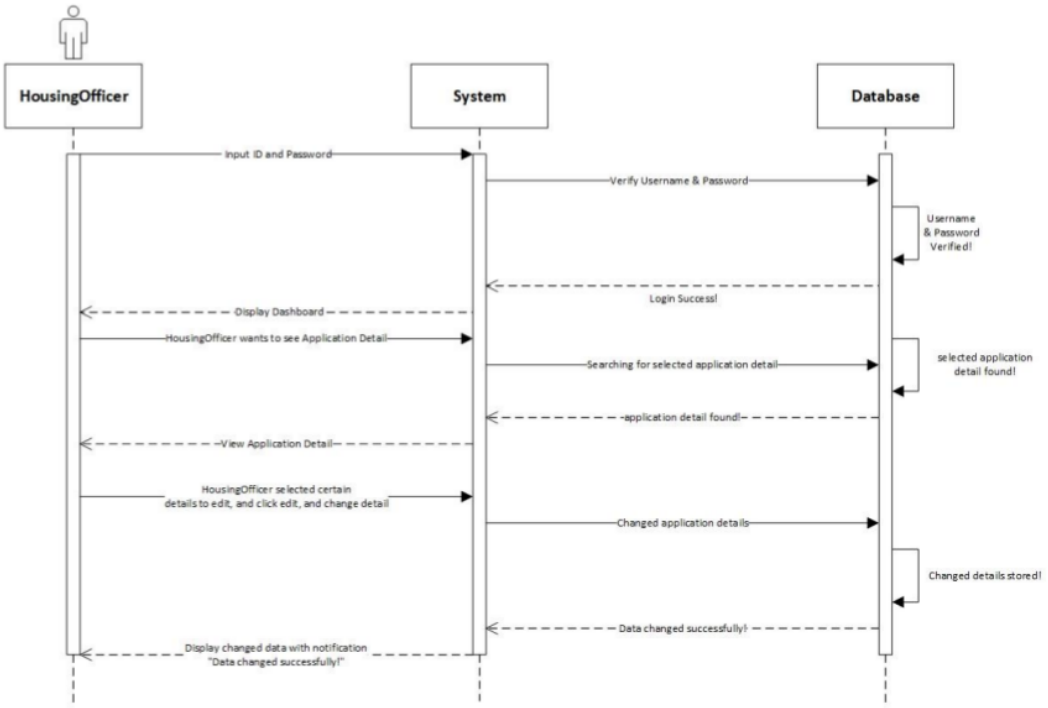
14. Delete Applications



Prepared by: Luh Wulandari Maharani

Cross References	Delete Applications
Operation	Login with ID and username
Responsible	To access dashboard, and delete applicant
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard
Cross References	**Delete Applications**
Operation	Delete Applications
Responsible	To remove an applications
Pre-conditions	The applications object must be available, and the applications is no longer in place (checkout)
Post-conditions	Applications object will be removed successfully

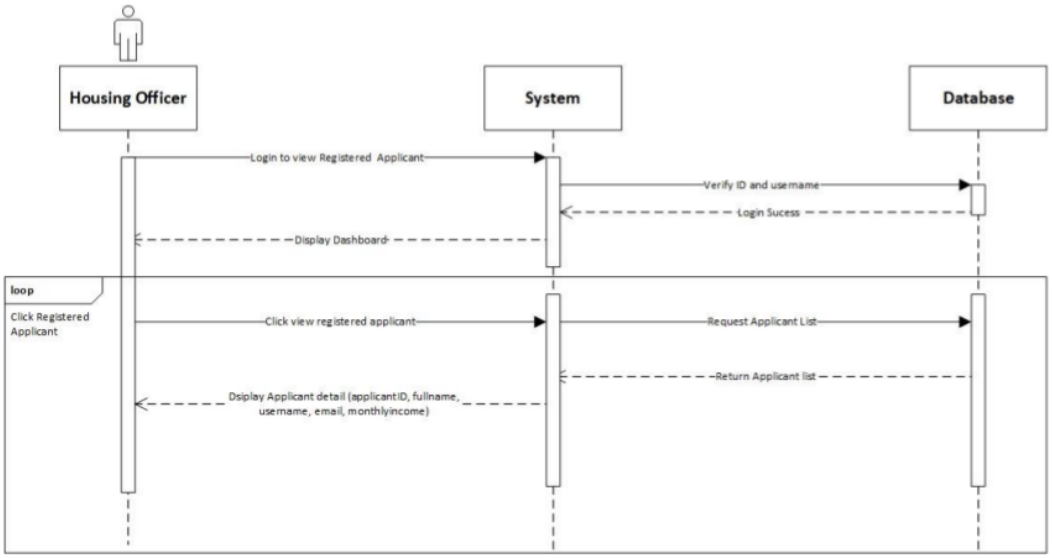
15. Edit Applications



Prepared by: Luh Wulandari Maharani

Cross References	Edit Applications
Operation	Login with username and password
Responsible	To get access to view the applications
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard
Cross References	**Edit Applications Detail**
Operation	Edit status, payment and payment status
Responsible	To change certain Applications Detail
Pre-conditions	We will need **one of** or **all of** the details below: • applicantID must be available • residenceID must be available • requiredMonth must be available • requiredYear must be available
Post-conditions	Applications changed successfully

16. View Applicant

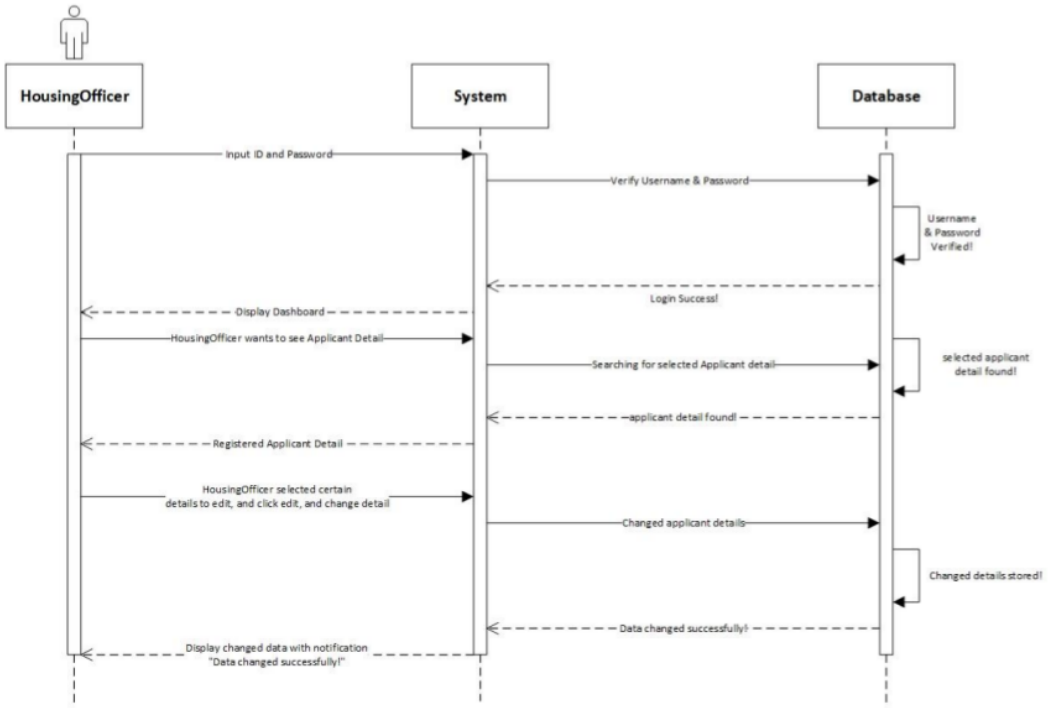


Prepared by: Luh Wulandari Maharani

Cross References	View Applicant
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Registered Applicant
Operation	Click view all registered applicant
Responsible	To get all list of the applicant
Pre-conditions	The applicant object must be available
Post-conditions	Success to display all applicant

17. Edit Applicant

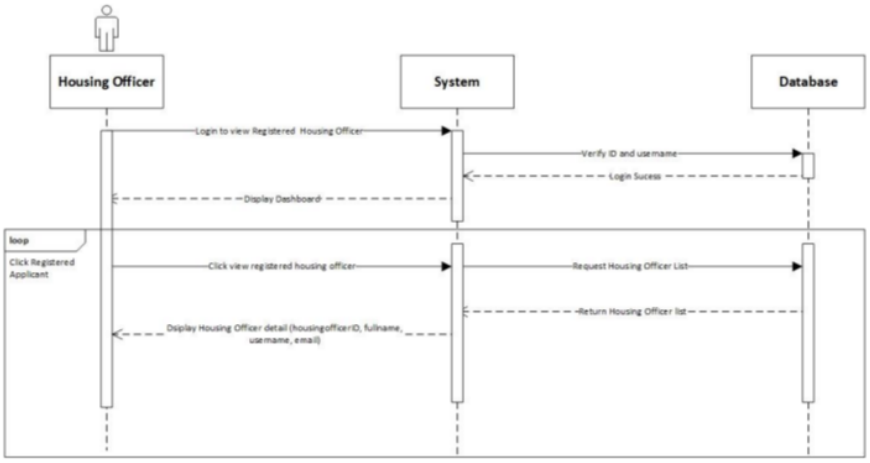


Prepared by: Luh Wulandari Maharani

Cross References	Edit Applicant
Operation	Login with username and password
Responsible	To get access to view the applications
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Edit Applicant
Operation	Edit status, payment and payment status
Responsible	To change certain Applications Detail
Pre-conditions	We will need **one of** or **all of** the details below: • applicantID must be available • fullName must be available • userName must be available • email must be available • monthlyRental must be available
Post-conditions	Applicant changed successfully

18. View Housing Officer

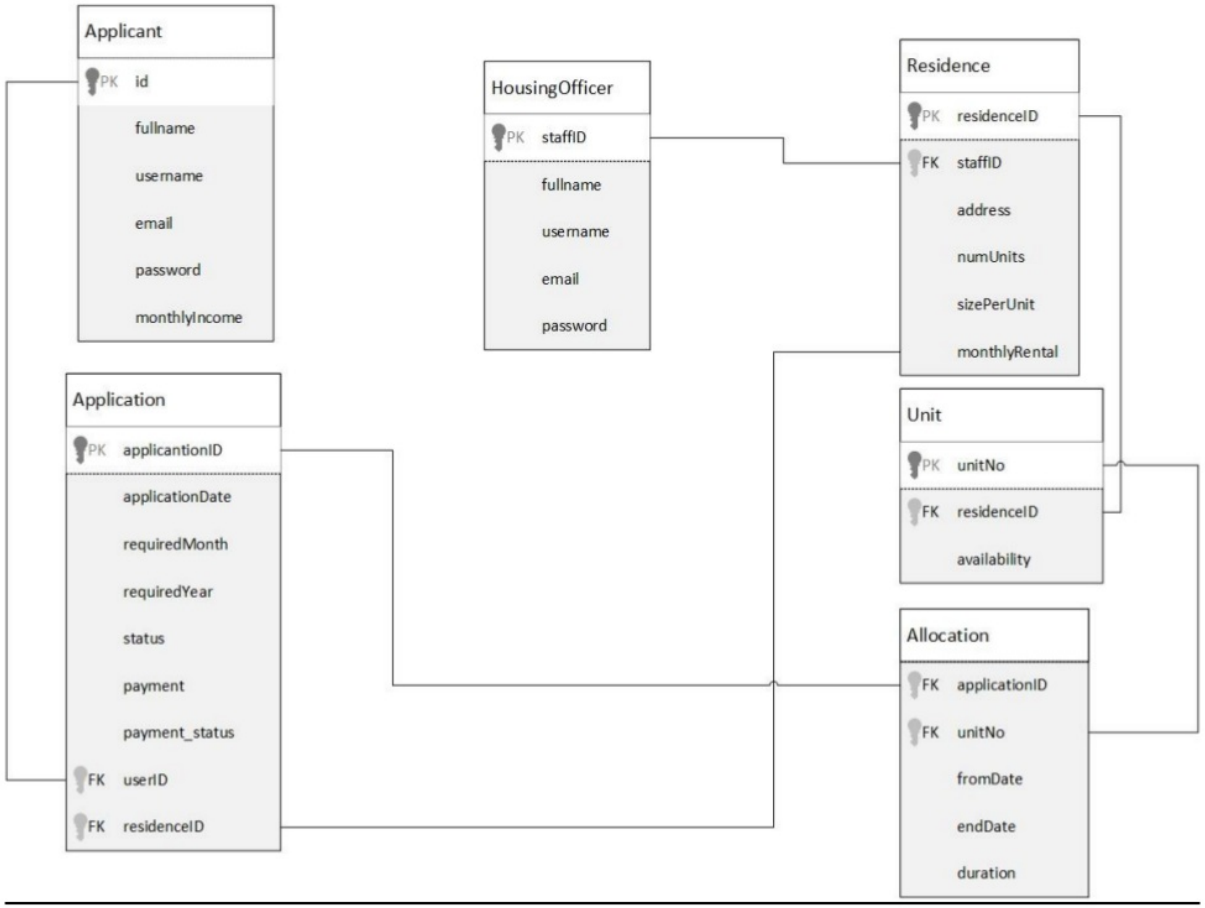


Prepared by: Luh Wulandari Maharani

Cross References	Registered Housing Officer
Operation	Login with ID and username
Responsible	To access the main page
Pre-conditions	• Username must be available • Password must be available
Post-conditions	• Username is matched • Password must be match based on user's password input • Display dashboard

Cross References	Registered Housing Officer
Operation	Click view all registered housing officer
Responsible	To get all list of the housing officer
Pre-conditions	The housing officer object must be available
Post-conditions	Success to display all housing officer

Database Design



Iteration 2

Use Case

Remaining Use Case	Developed By	Testing
Change Password (HousingOfficer)	Aldo	Iteration 2
Change Password (Applicant)	Aldo	Iteration 2
Delete Application (HousingOfficer)	Aldo & Wulan	Iteration 2
Edit Application (HousingOfficer)	Aldo & Wulan	Iteration 2
View Allocation (HousingOfficer)	Aldo & Wulan	Iteration 2
View Allocation (Applicant)	Aldo	Iteration 2
Allocate Housing(HousingOfficer)	Aldo & Wulan	Iteration 2
Delete Allocation(HousingOfficer)	Aldo & Wulan	Iteration 2
View Applicant(HousingOfficer)	Aldo & Wulan	Iteration 2
Edit Applicant(HousingOfficer)	Aldo	Iteration 2
Delete Applicant(HousingOfficer)	Aldo & Wulan	Iteration 2
View Housing Officer (HousingOfficer)	Aldo & Wulan	Iteration 2

Test Objectives

The main reason of the testing of this system is very obvious and inevitable, to find mistakes or errors inside the system. Although there is no such a "perfect system", it does not mean that we keep making systems without consideration and thorough testing. With this testing and a high frequency of testing, it will build confidence of the software quality, thus making us sure, the software will be very robust. Testing is not only about finding errors or mistake, but also to analyze the system and countering any possibility of errors that can possibly happen in the future.

Our previous testing already proved the system has work and fulfill our first objective. Now we are fully testing the functional system from each user:

- As Housing Officer, he/she should be able to do basic CRUD (Create, Read, Update, Delete) operation in the system on certain object, such as residence, allocation, etc. Housing Officer will be able to do some deciding action regarding application, whether to apply or reject it.
- As Applicant, he/she should be able view data only related to his role and application, such as Application Status, Payment, Residence, etc.

Test Plan

For the information system, we will be testing functions that will be performed by Housing Officer and Applicant. We want to make sure that system boundaries are working. For example, Applicant cannot edit or delete data. Login system will also be tested, so that Housing Officer and Applicant will be redirected to their own dashboard. During the testing process, we will test a function with several times of repeat to verify that the function has worked perfectly.

Unit Testing

1. Register for Applicant

This create_users_table function is used to make a users table in the microhousing database and declare each variable which will be used for the register applicant.

```php
public function up()
{
    Schema::create('users', function (Blueprint $table) {
        $table->bigIncrements('id');
        $table->string('name');
        $table->string('username')->unique();
        $table->string('usertype')->nullable();
        $table->string('email')->unique();
        $table->timestamp('email_verified_at')->nullable();
        $table->bigInteger('monthlyincome')->nullable();
        $table->string('password');
        $table->rememberToken();
        $table->timestamps();
    });
```

This registerContoller function is use to validate input from user when registering as an Applicant to the DBKL Microhousing. If applicant input invalid information the system will not accept the information and display an error from invalid input from the applicant.

```php
    protected function validator(array $data)
    {
        return Validator::make($data, [
            'name' => ['required', 'string', 'max:255'],
            'username' => ['required', 'string', 'max:255', 'unique:users'],
            'email' => ['required', 'string', 'email', 'max:255', 'unique:users'],
            'monthlyincome' => ['required', 'string', 'max:255'],
            'password' => ['required', 'string', 'min:8', 'confirmed'],
        ]);
    }
    /**
     * Create a new user instance after a valid registration.
     *
     * @param  array  $data
     * @return \App\User
     */
    protected function create(array $data)
    {
        return User::create([
            'name' => $data['name'],
            'username' => $data['username'],
            'email' => $data['email'],
            'monthlyincome' => $data['monthlyincome'],
            'password' => Hash::make($data['password']),
        ]);
    }
}
```

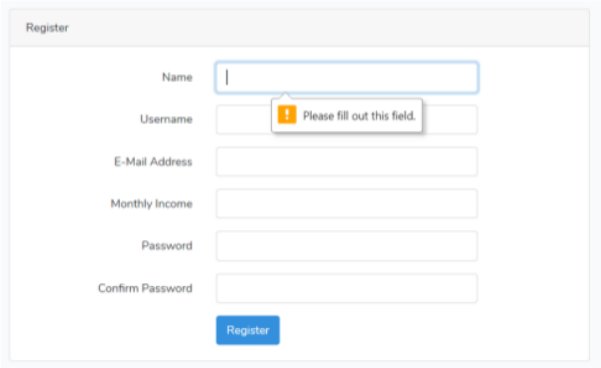
```
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">{{ __('Register') }}</div>

                <div class="card-body">
                    <form method="POST" action="{{ route('register') }}">
                        @csrf

                        <div class="form-group row">
                            <label for="name" class="col-md-4 col-form-label text-md-right">{{ __('Name') }}</label>

                            <div class="col-md-6">
                                <input id="name" type="text" class="form-control @error('name') is-invalid @enderror" name="name" value="{{ old('nam

                                @error('name')
                                    <span class="invalid-feedback" role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                            </div>
                        </div>

                        <div class="form-group row">
                            <label for="username" class="col-md-4 col-form-label text-md-right">Username</label>

                            <div class="col-md-6">
                                <input id="username" type="text" class="form-control @error('username') is-invalid @enderror" name="username" value=

                                @error('username')
                                    <span class="invalid-feedback" role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
```

This $fillable is register the attribute (column name) that we can fill in when inserting or updating to the database.

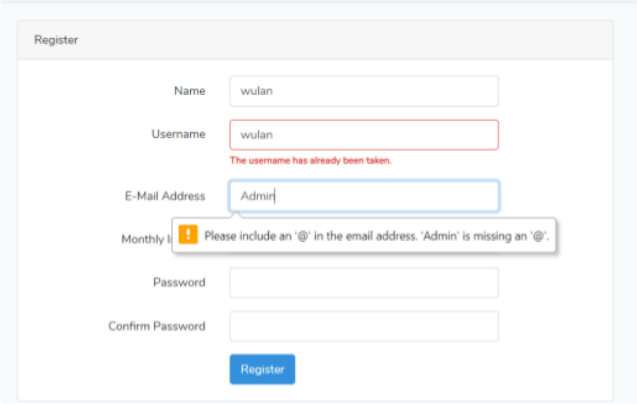
```php
<?php

namespace App;

use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;

class User extends Authenticatable
{
    use Notifiable;

    /**
     * The attributes that are mass assignable.
     *
     * @var array
     */
    protected $fillable = [
        'name','username', 'email','monthlyincome', 'password',
    ];

    /**
     * The attributes that should be hidden for arrays.
     *
     * @var array
     */
    protected $hidden = [
        'password', 'remember_token',
    ];

    /**
     * The attributes that should be cast to native types.
     *
     * @var array
     */
    protected $casts = [
        'email_verified_at' => 'datetime',
    ];
```

a) Applicant input blank information

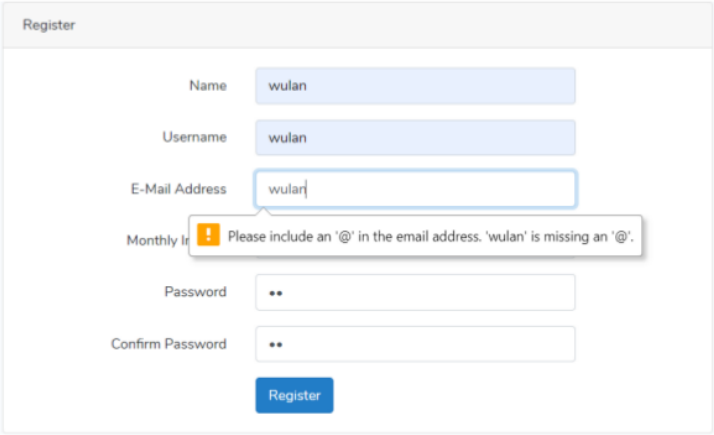
The required rule function was complete successfully.

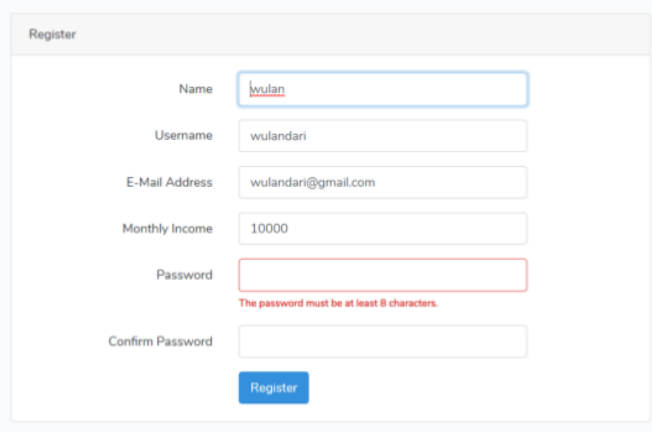


b) Applicant input wrong email or username (username already in the database / not unique) unique() function is for username and email was complete successfully.



c) Applicant input invalid email and password (too short) class email and password that has class for display error which is @enderror were complete successfully.





If applicant input valid information, the system will enter the applicant's information to the database 'microhousing' automatically.

d) Password Hashing

When register, the applicant's password will be saved in the database, and the password will be hashed so that won't be easy to read by others.

username	usertype	password 1
aldobagus	Housingofficer	$2y$10$raEeBv7zHvNblSqH0bNiOegCjPfVFefJg7m5iNk6Yir...
wulan	Applicant	$2y$10$KLgd5f6Lf6hqx1Ts4UbEp.L1YWlBu.ghU.bSpmSNwy4...

2. Login

This loginController function is to validate and separated according to the role as housing officer and as applicant which is will be input manual in usertype (to directed each web page).

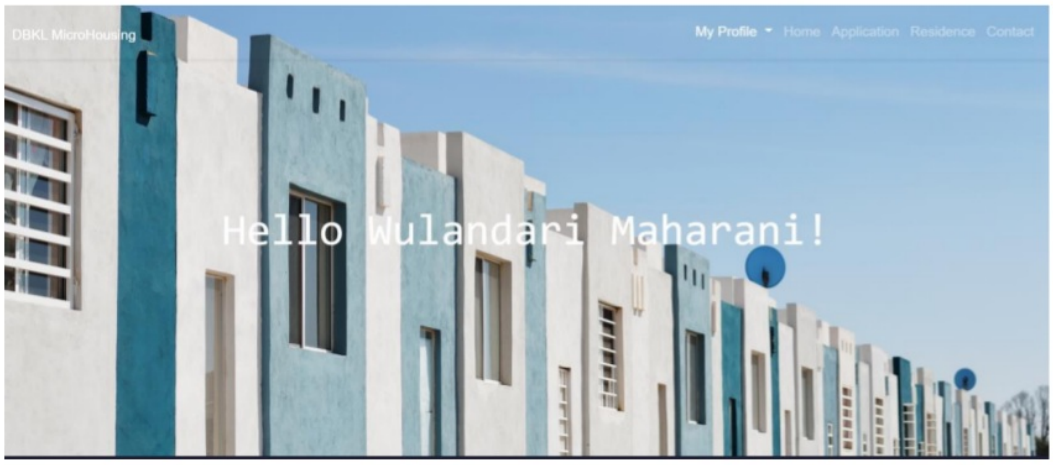
```php
public function login(Request $request)
{
$this->validate($request, [
    'username' => 'required|string',
    'password' => 'required|string|min:6',
]);


$loginType = filter_var($request->username, FILTER_VALIDATE_EMAIL) ? 'email' : 'username';


$login = [
    $loginType => $request->username,
    'password' => $request->password
];


if (auth()->attempt($login)) {
    if(Auth::user()->usertype=='Housingofficer')
    {
        return redirect()->intended('/dashboard');
    }
    else
    {
        return redirect()->intended('/dashboard_user');
    }

}

return redirect()->route('login')->with(['error' => 'Email/Password salah!']);
}
```

This function to make a form for login and the input will be verified whether it is in the database.

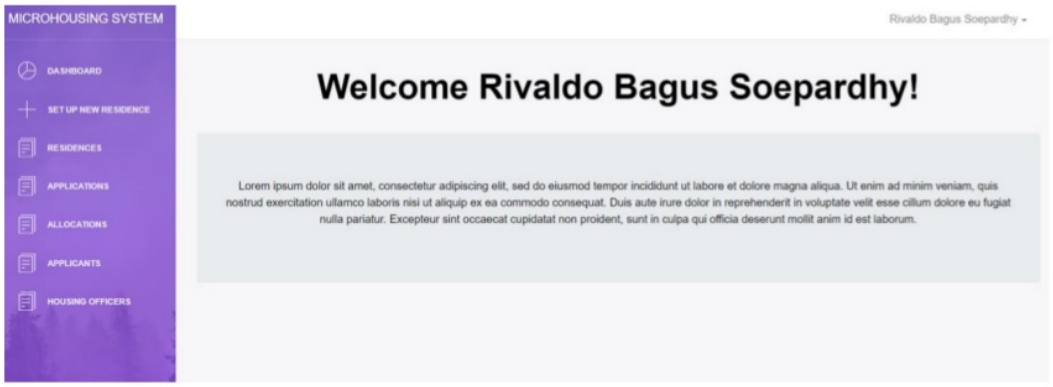
```blade
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">{{ __('Login') }}</div>
                <div class="card-body">
                    <form method="POST" action="{{ route('login') }}">
                        @csrf
                        <div class="form-group row">
                            <label for="username" class="col-md-4 col-form-label text-md-right">Username/Email</label>
                            <div class="col-md-6">
                                <input id="username" type="text" class="form-control @error('username') is-invalid @enderror" name="username" value=

                                @error('username')
                                    <span class="invalid-feedback" role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                            </div>
                        </div>

                        <div class="form-group row">
                            <label for="password" class="col-md-4 col-form-label text-md-right">{{ __('Password') }}</label>

                            <div class="col-md-6">
                                <input id="password" type="password" class="form-control @error('password') is-invalid @enderror" name="password" re

                                @error('password')
                                    <span class="invalid-feedback" role="alert">
                                        <strong>{{ $message }}</strong>
                                    </span>
                                @enderror
                            </div>
                        </div>
```

User input invalid username and password, the system will not response and will stay in the login page. User input valid username and password, the system will checking into the database and each user will be direct to their dashboard according to their role.

Applicant Homepage



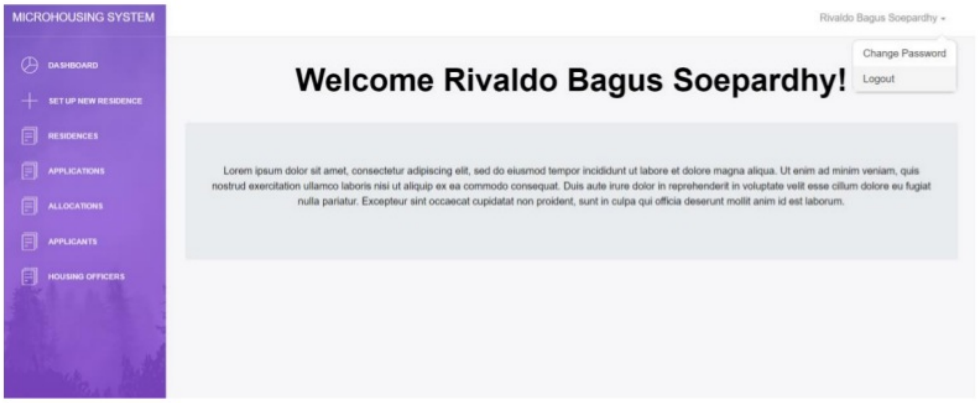
Housing Officer Homepage



3. **LogOut**

This nav bar will delete the user session which is allocate in master.blade.php. so the website cannot access user information again. If this function is remove, so the user will return to the dashboard login page.

```
<li class="nav-item dropdown">
    <a id="navbarDropdown" class="nav-link dropdown-toggle" href="#" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false" v-pre>
        {{ Auth::user()->name }} <span class="caret"></span>
    </a>

    <div class="dropdown-menu dropdown-menu-right" aria-labelledby="navbarDropdown">
        <a class="dropdown-item" href="{{ route('logout') }}"
           onclick="event.preventDefault();
                         document.getElementById('logout-form').submit();">
            {{ __('Logout') }}
        </a>

        <form id="logout-form" action="{{ route('logout') }}" method="POST" style="display: none;">
            @csrf
        </form>
    </div>
</li>
```



Back to dashboard page

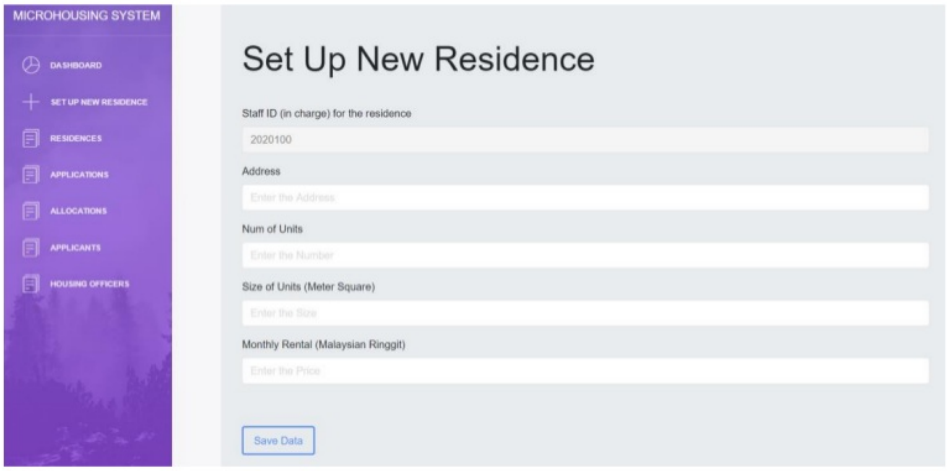
4. **Set Up New Residence**

In this test, the set up new residence will be able to add residence and each variable will input to 'microhousing' database in residence table.

```php
public function addresidences()
{
    return view('Housingofficer.addresidences');
}
public function store(Request $request)
{
    $residences = new Residences();
    $residences->address = $request->input('address');
    $residences->numunits = $request->input('numunits');
    $residences->sizeperunits = $request->input('sizeperunits');
    $residences->monthlyrental = $request->input('monthlyrental');

    $residences->save();
    return view('Housingofficer.addresidences')->with('Housingofficer.addresidences',$residences);
}
```

This addresidence.blade.php which is form to input the data

```php
@extends ('layouts.master')

@section('title')
    Set Up New Residence
@endsection


@section('content')

    <div class="container">
        <div class="jumbotron">
        <h1> Set Up New Residence</h1><br>
            <form action="{{ route ('addedData')}}" method="POST" enctype="multipart/form-data">
            {{csrf_field()}}
                <div class="form-group">
                    <label> Address </label>
                    <input type="text" name="address" class="form-control" placeholder="Enter the Address">
                </div>

                <div class="form-group">
                    <label> Num of Units </label>
                    <input type="text" name="numunits" class="form-control" placeholder="Enter the Number">
                </div>

                <div class="form-group">
                    <label> Size of Units </label>
                    <input type="text" name="sizeperunits" class="form-control" placeholder="Enter the Size">
                </div>

                <div class="form-group">
                    <label> Monthly Rental </label>
                    <input type="text" name="monthlyrental" class="form-control" placeholder="Enter the Price">
                </div>
                <br><br>
                <button type="submit" name="submit" class="btn btn-primary"> Save Data </button>

</body>
</html>
```



For the num of unit connected to unit database and make a model for the declaration of unit table

```php
namespace App;

use Illuminate\Database\Eloquent\Model;

class Unit extends Model{
    protected $table='unit';
    protected $primaryKey = 'unitNo';
    protected $fillable=['availability','residenceID'];
}
```

And adding unit function into to addresidence.blade.php for calculate the num of units

```php
public function store(Request $request){
    $residences = new Residences();
    $residences->admin_id = $request->input('admin_id');
    $residences->address = $request->input('address');
    $residences->numunits = $request->input('numunits');
    $residences->sizeperunits = $request->input('sizeperunits');
    $residences->monthlyrental = $request->input('monthlyrental');

    $residences->save();
    for ($x = 1; $x <= $residences->numunits;$x++){
        $units = new Unit();
        $units->availability = "Available";
        $units->residenceID = $residences->residenceID;
        $units->save();
    }
    return view('Housingofficer.addresidences')->with('Housingofficer.addresidences',$residences);
}
```

5. View Residence Detail

This test, viewresidence.blade.php function runs properly, displaying all the residence in the database. Residence data in the database will be stored in row that is will be send to the housingofficer's page.

```
@extends ('layouts.master')

@section('title')
    View Residences
@endsection


@section('content')
<div class="container-fluid">
                <div class="row">
                    <div class="col-md-12">
                        <div class="card strpied-tabled-with-hover">
                            <div class="card-header ">
                                <h4 class="card-title">View Residences</h4>
                            </div>
                            <div class="card-body table-full-width table-responsive">
                                <table class="table table-hover table-striped">
                                    <thead>
                                        <th>Residence ID</th>
                                        <th>Address</th>
                                        <th>Number of Units</th>
                                        <th>Size per Unit </th>
                                        <th>Monthly Rental</th>
                                        <th>EDIT</th>

                                    </thead>
                                    <tbody>
                                        @foreach ($residencess as $residence)
                                        <tr>
                                            <td>{{$residence->residenceID}}</td>
                                            <td>{{$residence->address}}</td>
                                            <td>{{$residence->numunits}}</td>
                                            <td>{{$residence->sizeperunits}}</td>
                                            <td>{{$residence->monthlyrental}}</td>

                                            <td>
                                                <a href="/editresidences{{$residence->residenceID}}" class="btn btn-sucess">EDIT</a>
                                            </td>
```

This function to call all the residence which has been inputted and store in the database.

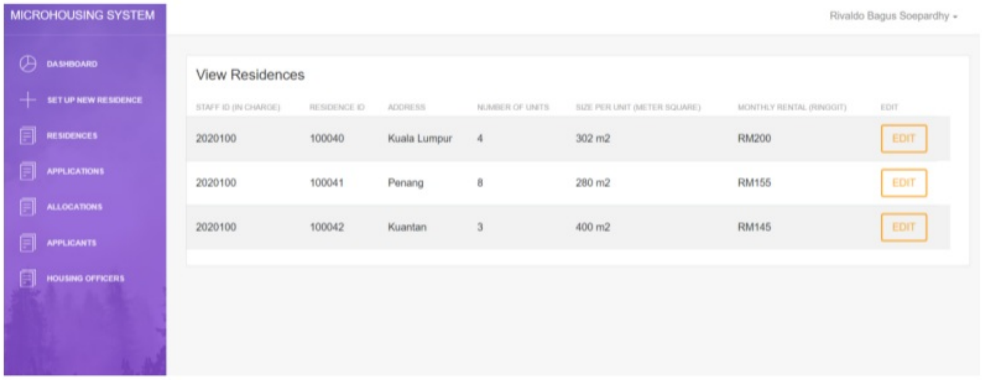
```
public function viewresidences()
{
    $residencess = Residences::all();
    return view('Housingofficer.viewresidences')->with('residencess',$residencess);
}
```

This is the residence data in 'microhousing' database.

· Options

←T→	residenceID	admin_id	address	numunits	sizeperunits	monthlyrental	created_at	updated_at
Edit Copy Delete	100040	2020100	Kuala Lumpur	4	302 m2	RM200	2020-05-03 10:24:19	2020-05-03 10:24:19
Edit Copy Delete	100041	2020100	Penang	8	280 m2	RM155	2020-05-03 10:24:44	2020-05-03 10:24:44
Edit Copy Delete	100042	2020100	Kuantan	3	400 m2	RM145	2020-05-03 10:25:13	2020-05-03 10:25:13

The view residence in the housing officer page



6. Edit Residence Detail

In this test will editresidence.blade.php function runs properly. This function useful for editing the residence, which is already input. For editing we need 'Model' that will receive data input from the residence model and then update the data into the database. This is the Residence.model

```
namespace App;

use Illuminate\Database\Eloquent\Model;

class Residences extends Model
{
    protected $table='residences';
    protected $primaryKey = 'residenceID';
    protected $fillable=['address','numunits','sizeperunits','monthlyrental'];
}
```

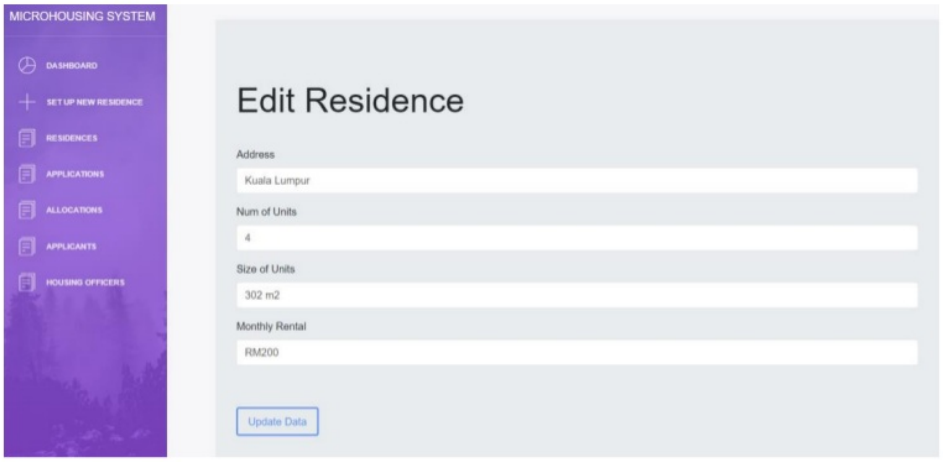
This function is to find the residenceID because when we want to edit every residence has edit button so we will find the residenceID.

```
public function editresidences($residenceID)
{
    $residencess = Residences::find($residenceID);
    return view('Housingofficer.editresidences')->with('residencess',$residencess);
}
```

This is the editresidence.blade.php is form for the edit residence.

```
@section('content')
<div class="container">
    <div class="card-header ">
        <h4 class="card-title">Edit Housing Officer</h4>
    </div>
    <div class="jumbotron">
        <div class="container">
            <div class="row">
                @foreach($housingofficers as $user)
                <div class="col">
                    <form action="/updatehousingofficer{{$user->id}}" method="POST" enctype="multipart/form-data">
                        {{csrf_field()}}
                        {{method_field('PUT')}}
                        <table class="table table-hover">
                            <tr>
                                <th><label> Housing Officer ID</label></th>
                                <td><input type="text" class="form-control" name="id" value="{{$user->id}}" readonly></td>
                            </tr>
                            <tr>
                                <th><label><label> Full Name </label></label></th>
                                <td><input type="text" class="form-control" name="fullname" value="{{$user->fullname}}" required></td>
                            </tr>
                            <tr>
                                <th><label> Username </label></th>
                                <td><input type="text" class="form-control" name="username" value="{{$user->username}}" required></td>
                            </tr>
                            <tr>
                                <th><label> Email </label></th>
                                <td><input type="email" class="form-control" name="email" value="{{$user->email}}" required></td>
                            </tr>
                        </table>
                            <br><br>
                    <button type="submit" name="submit" class="btn btn-primary"> Update Data</button>
                    </form>
                        </div>
                        @endforeach
```

This is display form edit residence



7. View Applications

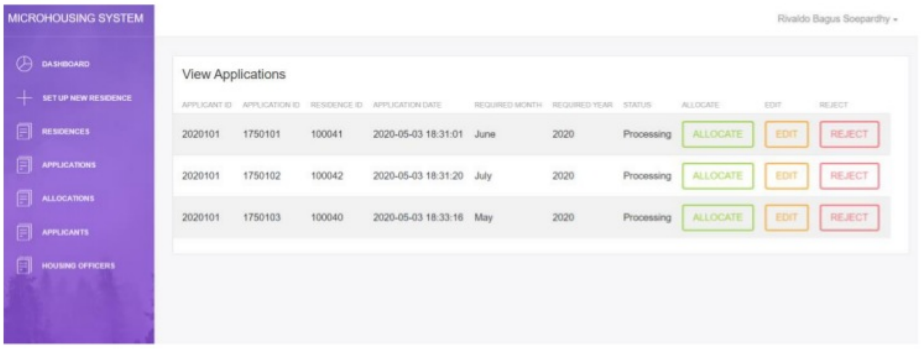
This test, viewapplication.blade.php function runs properly, the applications are displayed in the view application menu for Housing Officer menu, are applications that related to the residence.

```
<div class="container-fluid">
    <div class="row">
        <div class="col-md-12">
            <div class="card strpied-tabled-with-hover">
                <div class="card-header ">
                    <h4 class="card-title">View Applications</h4>
                </div>
                <div class="card-body table-full-width table-responsive">
                    <table class="table table-hover table-striped">
                        <thead>
                            <th>Applicant ID</th>
                            <th>Application ID</th>
                            <th>Residence ID</th>
                            <th>Application Date</th>
                            <th>Required Month</th>
                            <th>Required Year </th>
                            <th>Status</th>
                            <th>ALLOCATE</th>
                            <th>EDIT</th>
                            <th>REJECT</th>
                        </thead>
                        <tbody>
                            @foreach ($applicationss as $app)
                                @foreach ($residencess as $r)
                                    @if($app->residenceID==$r->residenceID)
                                        @if($r->admin_id==Auth::user()->id)
                            <tr>
                                <td>{{ $app->userID}}</td>
                                <td>{{ $app->applicationID}}</td>
                                <td>{{ $app->residenceID}}</td>
                                <td>{{ $app->applicationDate}}</td>
                                <td>{{ $app->requiredMonth}}</td>
                                <td>{{ $app->requiredYear}}</td>
                                <td>{{ $app->status}}</td>
                                <td><a href="/allocatehousing{{$app->applicationID}}" class="btn btn-success">ALLOCATE</a></td>
                                <td><a href="/editapplication{{$app->applicationID}}" class="btn btn-warning">EDIT</a></td>
                                <td><a href="/deleteapplication{{$app->applicationID}}" class="btn btn-danger">REJECT</a></td>
```

This function is to call the table application in the database, which is input by the applicant

```
public function viewapplication(){
    $applicationss = Application::all();
    $residencess = Residences::all();
    return view('Housingofficer.viewapplication')->with('applicationss',$applicationss)->with('residencess',$residencess);
}
```

This display for view applications from input by applicant



8. Edit Applications

In this test will editapplication.blade.php function runs properly. This function useful for editing the applications, which is already input. For editing we need 'Model' that will receive data input from the residence model and then update the data into the database.

This is the Application model

```php
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Application extends Model{
    protected $table='application';
    protected $primaryKey = 'applicationID';
    protected $fillable=['applicantID','residenceID','applicationDate','requiredMonth','requiredYear'];
}
```

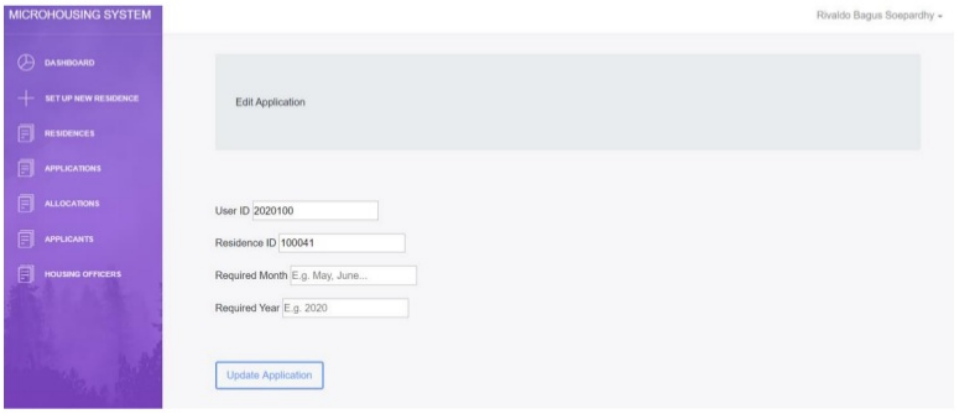
This function is to find the applicationID because when we want to edit every applications has edit button so we will find the applicationID.

```php
public function editapplication($applicationID){
    $applicationss = Application::where('applicationID',$applicationID)->get();
    return view('Housingofficer.editapplication')->with('application', $applicationss);
}
```

This is the editapplication.blade.php is form for the edit application

```
<div class="container">
        <div class="jumbotron">
                    Edit Application
                </div>
            </div>
            <div id="residence" class="row p-5">
                <div class="container">
                    <div class="row">
                        @foreach($application as $r)
                        <div class="col">
                        <form action="/updateapplication{{$r->applicationID}}" method="POST" enctype="multipart/form-data">
                        {{csrf_field()}}
                        {{method_field('PUT')}}
                                <div class="form-group">
                                <label> User ID </label>
                                    <td><input type="text" name="userID" value="{{ Auth::user()->id }}"></td>
                                </div>

                                <div class="form-group">
                                <label> Residence ID </label>
                                    <td><input type="text" name="residenceID" value="{{ $r->residenceID }}"></td>
                                 </div>

                                <div class="form-group">
                                <label> Required Month </label>
                                    <td><input type="text" name="requiredMonth" required="required" placeholder="E.g. May, June..."></td>
                                </div>

                                <div class="form-group">
                                <label> Required Year </label>
                                    <td><input type="text" name="requiredYear" required="required" placeholder="E.g. 2020"></td>
                                </div>
                                <br><br>
                                    <button type="submit" name="submit" class="btn btn-primary"> Update Application </button>
                            </form>
                        </div>
```

This is display form edit applications



9. **Delete Applications**

This test dashboardcontroller, will be able to delete the application which is already input by the applicant

```php
public function deleteapplication($applicationID){
    $applicationss = Application::find($applicationID);
    $applicationss->delete();
    return redirect ('/viewapplications')->with('application',$applicationss);
}
```

10. **Allocate Housing**

In this test will allocatehousing.blade.php function runs properly. This function useful for allocating the residence for every unit in the residences, which is already input. For the allocate we need 'Model' that will receive data input from the allocation model and then update the data into the database.

This is the Allocation model

```php
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;
use Carbon\Carbon;

class Allocation extends Model{
    protected $table='allocation';
    protected $fillable=['unitNo','fromDate','endDate','duration'];
}
```

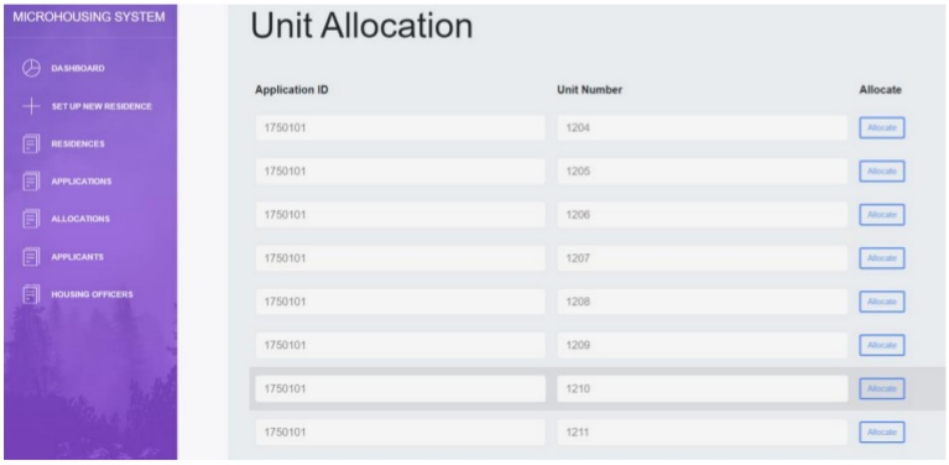
This is the allocationhousing.blade.php is display all the unit which one wants to allocate for every application

```
@extends ('layouts.master')
@section('title')
    Allocation
@endsection
@section('content')
    <div class="container">
        <div class="jumbotron">
        <h1> Unit Allocation </h1><br>
            <table class="table table-borderless table-hover">
            <tr>
                <th>Application ID</th>
                <th>Unit Number</th>
                <th>Allocate</th>
            </tr>
            @foreach ($applicationss as $app)
                @foreach ($units as $u)
            <tr>
                <td><input type="text" name="applicationID" class="form-control" value="{{ $app->applicationID }}" readonly></td>
                <td><input type="text" name="unitNo" class="form-control" value="{{ $u->unitNo }}" readonly></td>
                <td><a class="btn btn-primary btn-sm" href="/confirmallocate/{{ $app->applicationID }}/{{ $u->unitNo }}">Allocate</a></td>
            </tr>
                @endforeach
            @endforeach
            </table>
            <br><br>
        </div>
</div>
@endsection
@section('scripts')
@endsection
```

This function to call the application and unit in the database for allocating house

```
public function allocatehousing($id){
    $applicationss = Application::where('applicationID',$id)->get();
    $units = Unit::where('residenceID', $applicationss[0]->residenceID)->get();
    return view('Housingofficer.allocatehousing')->with('units',$units)->with('applicationss',$applicationss);
}
```

This is display for every unit per applications to allocate



This function in confirmallocate.blade.php to display the form for allocate

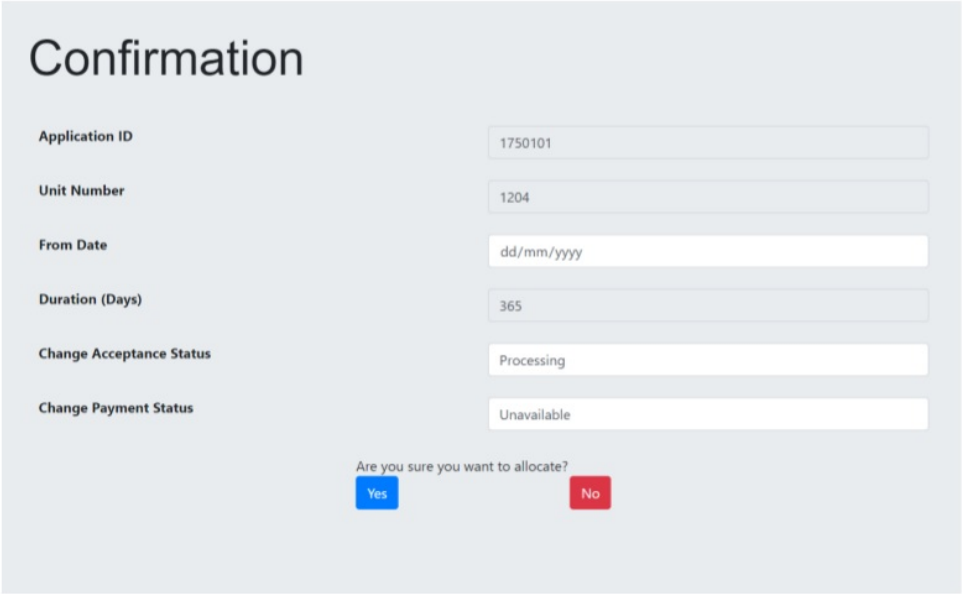
```
<div class="container">
    <div class="jumbotron">
    <h1>Confirmation </h1><br>
        @foreach ($applicationss as $app)
            @foreach ($units as $u)
        <form action="/allocate" method="POST" enctype="multipart/form-data">
        {{csrf_field()}}
            <table class="table table-borderless table-hover">
            <tr>
                <th>Application ID</th>
                <td><input type="text" name="applicationID" class="form-control" value="{{ $app->applicationID }}" readonly></td>
            </tr>
            <tr>
                <th>Unit Number</th>
                <td><input type="text" name="unitNo" class="form-control" value="{{ $u->unitNo }}" readonly></td>
            </tr>
            <tr>
                <th>From Date</th>
                <td><input type="date" name="fromDate" class="date form-control"></td>
            </tr>
            <tr>
                <th>Duration (Days)</th>
                <td><input type="text" name="duration" class="form-control" value="365" readonly></td>
            </tr>
            <tr>
                <th>Change Acceptance Status</th>
                <td><input type="text" name="status" class="form-control" value="{{ $app->status }}"></td>
            </tr>
            <tr>
                <th>Change Payment Status</th>
                <td><input type="text" name="payment_status" class="form-control" value="{{ $app->payment_status }}"></td>
            </tr>
            </table>
            <center>
            <table table table-borderless table-hover>
                <tr>
                    <td>Are you sure you want to allocate?</td>
```

This is the controller for confirmallocate to get unitNo and applicationID in the applications and unit database.

```
public function confirmallocate($applicationID,$unitNo){
    $applicationss = Application::where('applicationID',$applicationID)->get();
    $units = Unit::where('unitNo', $unitNo)->get();
    return view('Housingofficer.confirmallocate')->with('units',$units)->with('applicationss',$applicationss);
```

```php
public function storeallocate(Request $request){
    $allocation = new Allocation();
    $allocation->applicationID = $request->input('applicationID');
    $allocation->unitNo = $request->input('unitNo');
    $allocation->fromDate = new Carbon($request->input('fromDate'));
    $toAdd = new Carbon($request->input('fromDate'));
    $allocation->duration=$request->input('duration');
    $duration = $allocation->duration=$request->input('duration');
    $allocation->endDate = $toAdd->addDays($duration);
    $allocation->save();
    //application changing status
    $applicationID = $allocation->applicationID = $request->input('applicationID');
    $application = Application::find($applicationID);
    $application ->status =  $allocation->status = $request->input('status');
    $application ->payment_status = $allocation->payment_status = $request->input('payment_status');
    $application->save();
    return view('Housingofficer.dashboard');
}
```

This is display for form allocate every applications



If you choose “No” button the system will back to the view applications and for the “Yes” button the system will save to allocation in the database.

11. Submit Application

This test applicationcontroller , will be able to submit application and each variable will input to ‘microhousing’ database in application table.

```php
public function SubmitApplication($id)
{
    $residence = DB::table('residences')->where('residenceID',$id)->get();
    return view('Applicant.SubmitApplication',['residences' => $residence]);
}
public function store(Request $request)
{
    DB::table('application')->insert([
        'requiredMonth' => $request->requiredMonth,
        'requiredYear' => $request->requiredYear,
        'status' => $request->status,
        'residenceID' => $request->residenceID,
        'userID' => $request->userID,
        'payment' => $request->payment,
        'payment_status' => $request->payment_status,
    ]);
    return redirect('/dashboard_user');
}
```

`This is form for the submit application that is submitapplication.blade.php

This is display submit application page

If the applicant input invalid information that is required month and required year (Not fill), the system will display an error.

12. View Residence (Applicant)

In this test, viewresidence.blade.php which is the folder function runs properly, displaying all the residence which is input by the housing officer and all the residence data in the database.

This is form for the view residence in the applicant role

```
<div class="container-fluid contents">
    <div id="home" class="row clearfix" data-ibg-bg="{{ asset('assets/img/15.jpg') }}">
        <div class="title-home">
            Residences
        </div>
    </div>
    <div id="residence" class="row p-5">
        <div class="container">
            <div class="row">
                <div class="col">
                    <table class="table table-borderless table-dark table-hover">
                    <tr>
                        <th>Residence ID</th>
                        <th>Address</th>
                        <th>Number of Units</th>
                        <th>Size Per Unit (Meter Square)</th>
                        <th>Monthly Rental (Malaysian Ringgit)</th>
                        <th></th>
                    </tr>
                    @foreach($residencess as $r)
                    <tr>
                        <td>{{ $r->residenceID}}</td>
                        <td>{{ $r->address}}</td>
                        <td>{{ $r->numunits}}</td>
                        <td>{{ $r->sizeperunits}}</td>
                        <td>{{ $r->monthlyrental}}</td>
                        <td>
                        <a class="btn btn-primary btn-sm" href="/SubmitApplication/{{ $r->residenceID}}">Submit Application</a>
                        </td>
                    </tr>
                    @endforeach
```

This function is to call the table application record in the database

```
public function ViewResidence(){
    $residencess = Residences::all();
    return view('Applicant.ViewResidence')->with('residencess',$residencess);
}
```

This is display view residences

13. View Application

This test ensure the applications that are display the viewapplication which is the function in the applicant folder. The applicantcontroller functioning properly. In this code the applicantID will be login first, the the applicant id will look for, and the application will display the application that has the same applicantID thas has login

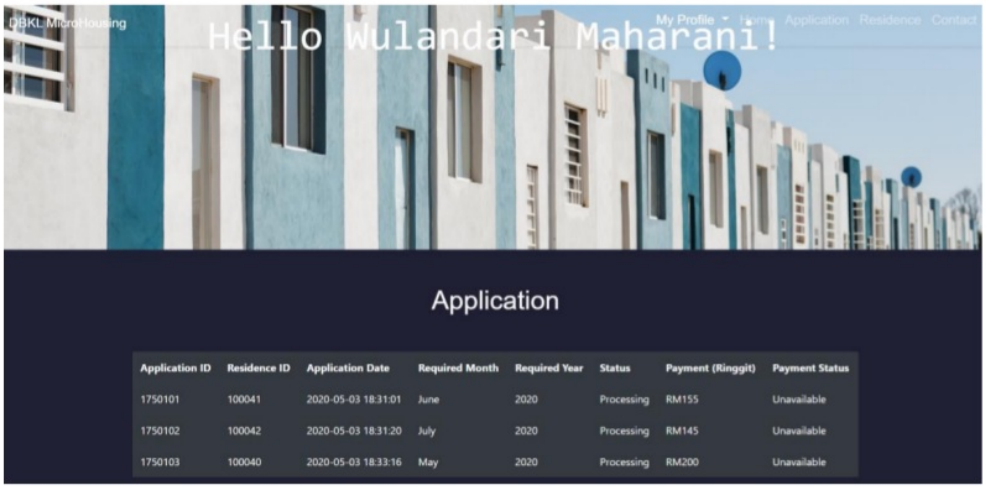
This is the form table will be display in the applicant dashboard

```
<div id="application" class="row p-5">
    <div class="container">
        <div class="row">
            <div class="title-aboutus">
                Application
            </div>
        </div>
        <br>
        <br>
        <div class="row">
            <div class="col">
                <table class="table table-borderless table-hover table-dark">
                    <tr>
                        <th>Application ID</th>
                        <th>Residence ID</th>
                        <th>Application Date</th>
                        <th>Required Month</th>
                        <th>Required Year</th>
                        <th>Status</th>
                        <th>Payment (Ringgit)</th>
                        <th>Payment Status</th>
                    </tr>
                    @foreach($application as $app)
                        @if($app->userID==Auth::user()->id)
                    <tr>
                        <td>{{ $app->applicationID}}</td>
                        <td>{{ $app->residenceID}}</td>
                        <td>{{ $app->applicationDate}}</td>
                        <td>{{ $app->requiredMonth}}</td>
                        <td>{{ $app->requiredYear}}</td>
                        <td>{{ $app->status}}</td>
                        <td>{{ $app->payment}}</td>
                        <td>{{ $app->payment_status}}</td>
                    </tr>
                        @endif
                    @endforeach
                </table>
```

This function is to call the applications, which is in the database and already input by the applicant.

```
public function ViewApplication(){
    $application = Application::all();
    $allocate = Allocation::all();
    return view('Applicant.dashboard_user')->with('application',$application)->with('allocate',$allocate);
}
```

This display the application which is already input

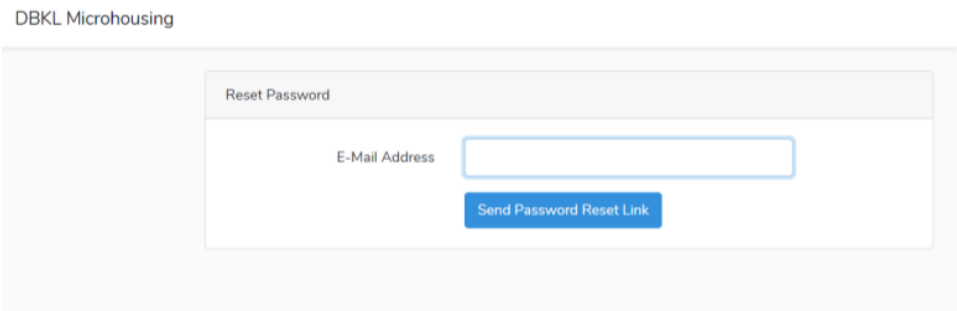


14. Change Password

In this test, reset.blade.php, which is the folder function, runs properly, to reset or change the password.

```
<div class="card-body">
    <form method="POST" action="{{ route('password.update') }}">
        @csrf

        <input type="hidden" name="token" value="{{ $token }}">

        <div class="form-group row">
            <label for="email" class="col-md-4 col-form-label text-md-right">{{ __('E-Mail Address') }}</label>

            <div class="col-md-6">
                <input id="email" type="email" class="form-control @error('email') is-invalid @enderror" name="email" value="{{ $ema

                @error('email')
                    <span class="invalid-feedback" role="alert">
                        <strong>{{ $message }}</strong>
                    </span>
                @enderror
            </div>
        </div>

        <div class="form-group row">
            <label for="password" class="col-md-4 col-form-label text-md-right">{{ __('Password') }}</label>

            <div class="col-md-6">
                <input id="password" type="password" class="form-control @error('password') is-invalid @enderror" name="password" re

                @error('password')
                    <span class="invalid-feedback" role="alert">
                        <strong>{{ $message }}</strong>
                    </span>
                @enderror
            </div>
        </div>

        <div class="form-group row">
            <label for="password-confirm" class="col-md-4 col-form-label text-md-right">{{ __('Confirm Password') }}</label>
```

This is display for change password



15. View Allocation

In this test, viewallocation.blade.php which is the folder function runs properly, displaying all the allocation which is input by the applicant and all the allocation data in the database.

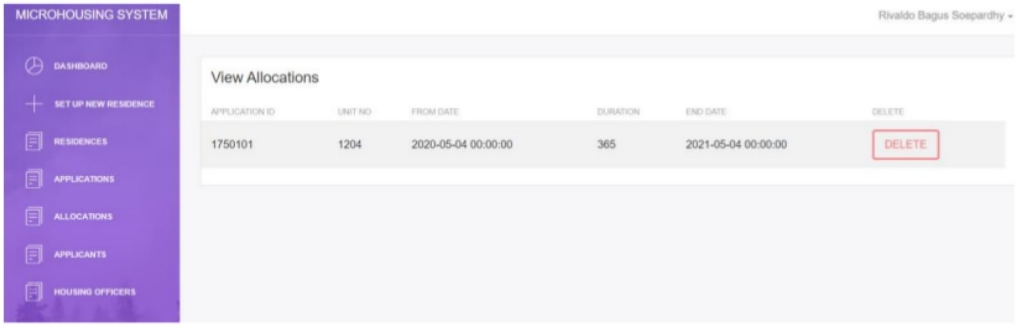
The form for view allocation

```
@section('title')
    View Allocations
@endsection
@section('content')
<div class="container-fluid">
    <div class="row">
        <div class="col-md-12">
            <div class="card strpied-tabled-with-hover">
                <div class="card-header ">
                    <h4 class="card-title"> View Allocations</h4>
                </div>
                <div class="card-body table-full-width table-responsive">
                    <table class="table table-hover table-striped">
                        <thead>
                            <th>APPLICATION ID</th>
                            <th>UNIT NO</th>
                            <th>FROM DATE</th>
                            <th>DURATION</th>
                            <th>END DATE</th>
                            <th>DELETE</th>
                        </thead>
                        <tbody>
                            @foreach ($allocation as $al)
                            <tr>
                                <td>{{ $al->applicationID}}</td>
                                <td>{{ $al->unitNo}}</td>
                                <td>{{ $al->fromDate}}</td>
                                <td>{{ $al->duration}}</td>
                                <td>{{ $al->endDate}}</td>
                                <td><a href="/deleteallocation{{$al->unitNo}}" class="btn btn-danger">DELETE</a></td>
                            </tr>
                            @endforeach
                        </tbody>
                    </table>
                </div>
            </div>
        </div>
```

The function for call the allocation in the database

```
public function viewallocation(){
    $allocation = Allocation::all();
    return view('Housingofficer.viewallocation')->with('allocation',$allocation);
}
```

This is display for view allocation



16. Delete Allocation

This test dashboardcontroller, will be able to delete the allocation which is already input by the housing officer.

```php
public function deleteallocate($applicationID){
    $allocation = Allocation::where('unitNo',$applicationID)->delete();
    return redirect ('/viewallocation')->with('allocation',$allocation);
}
```

17. Registered Applicant

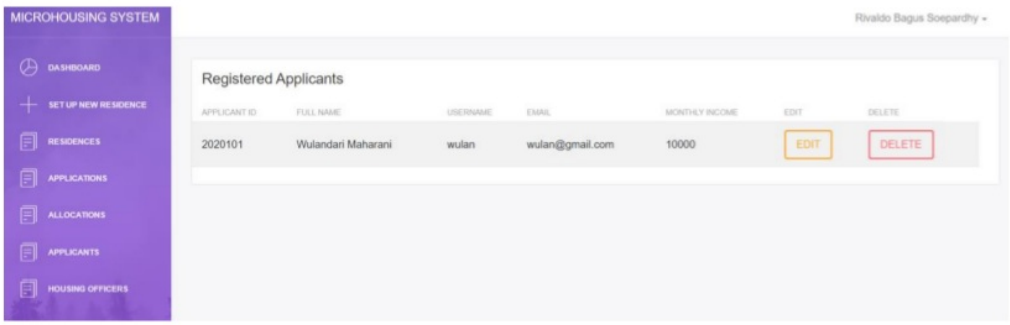
This test, viewapplicant.blade.php function runs properly, the applicant are displayed in Housing Officer menu.This is the form for the view applicant

```blade
@section('title')
    View Applicant
@endsection
@section('content')
<div class="container-fluid">
    <div class="row">
        <div class="col-md-12">
            <div class="card strpied-tabled-with-hover">
                <div class="card-header ">
                    <h4 class="card-title">Registered Applicants</h4>
                </div>
                <div class="card-body table-full-width table-responsive">
                    <table class="table table-hover table-striped">
                        <thead>
                            <th>Applicant ID</th>
                            <th>Full Name</th>
                            <th>Username</th>
                            <th>Email</th>
                            <th>Monthly Income</th>
                            <th>EDIT</th>
                            <th>DELETE</th>
                        </thead>
                        <tbody>
                            @foreach ($applicants as $user)
                            <tr>
                                <td>{{ $user->id}}</td>
                                <td>{{ $user->fullname}}</td>
                                <td>{{ $user->username}}</td>
                                <td>{{ $user->email}}</td>
                                <td>{{ $user->monthlyIncome}}</td>
                                <td><a href="/editapplicant{{$user->id}}" class="btn btn-warning">EDIT</a></td>
                                <td><a href="/deleteapplicant{{$user->id}}" class="btn btn-danger">DELETE</a></td>
                            </tr>
                            @endforeach
                        </tbody>
                    </table>
```

This function is to call the table applicant in the database, which is register by the applicant and will display in the Housing Officer Menu

```
public function viewapplicant(){
    $filter = 'Applicant';
    $applicants = User::where('usertype',$filter)->get();
    return view('Housingofficer.viewapplicant')->with('applicants',$applicants);
}
```

This is display for the registered applicant



18. Edit Applicant

In this test will editapplicant.blade.php function runs properly. This function useful for editing the applicant which is already input and then update the data into the database.

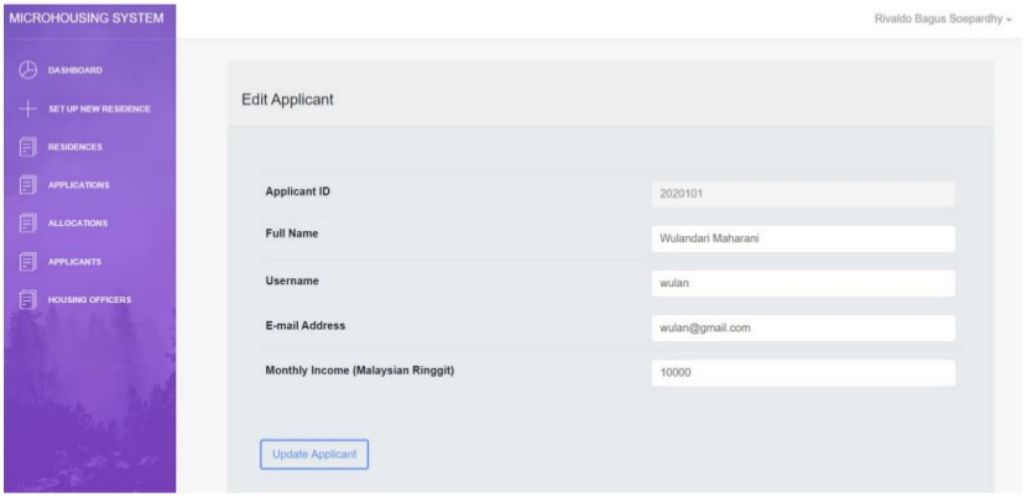
```
@section('title')
    Edit Applicant
@endsection
@section('content')
<div class="container">
        <div class="jumbotron">
                    Edit Applicant
                </div>
            </div>
                <div class="container">
                    <div class="row">
                        @foreach($applicants as $user)
                        <div class="col">
                        <form action="/updateapplicant{{$user->id}}" method="POST" enctype="multipart/form-data">
                        {{csrf_field()}}
                        {{method_field('PUT')}}
                                <div class="form-group">
                                <label> Applicant ID</label>
                                    <td><input type="text" name="id" value="{{$user->id}}" readonly></td>
                                </div>

                                <div class="form-group">
                                <label> Full Name </label>
                                    <td><input type="text" name="fullname" value="{{$user->fullname}}" required></td>
                                 </div>

                                <div class="form-group">
                                <label> Username </label>
                                    <td><input type="text" name="username" value="{{$user->username}}" required></td>
                                </div>

                                <div class="form-group">
                                <label> Monthly Income (Malaysian Ringgit) </label>
                                     <td><input type="text" name="monthlyIncome" value="{{$user->monthlyIncome}}" required></td>
                                </div>
                                <br><br>
                                    <button type="submit" name="submit" class="btn btn-primary"> Update Application </button>
                            </form>
```

This function is to call the table applicant in the database, which is want to edit

```
public function editapplicant($id){
    $applicants = User::where('id',$id)->get();
    return view('Housingofficer.editapplicant')->with('applicants', $applicants);
}
```

```
public function updateapplicant(Request $request,$id){
    $applicants = User::find($id);
    $applicants->fullname = $request->input('fullname');
    $applicants->username = $request->input('username');
    $applicants->monthlyIncome = $request->input('monthlyIncome');
    $applicants->email = $request->input('email');
    $applicants->save();
    return redirect('/viewapplicant')->with('applicants',$applicants);
}
```

The display for editing the applicant



19. Delete Applicant

This test dashboardcontroller, will be able to delete the application which is already input by the applicant in the housing officer menu.

```
public function deleteapplicant($id){
    $applicants = User::find($id);
    $applicants->delete();
    return redirect ('/viewapplicant')->with('applicants',$applicants);
}
```

20. Registered Housing Officer

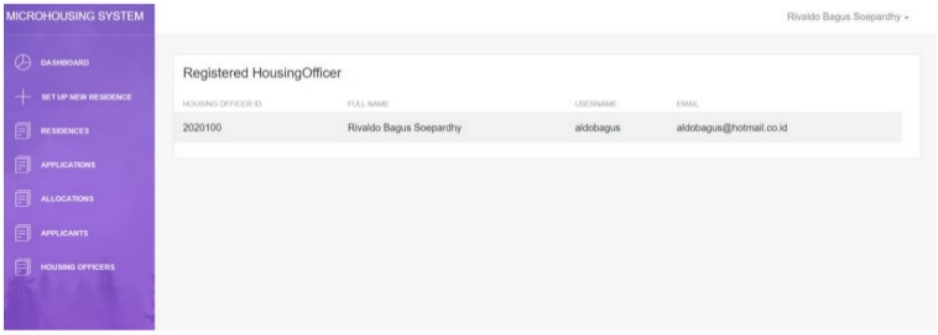
In this test, viewhousingofficer.blade.php function runs properly, the housing officer are displayed in the Housing Officer menu.This is the form for the view Housing Officer

```
@extends ('layouts.master')
@section('title')
    View Admins
@endsection
@section('content')
<div class="container-fluid">
    <div class="row">
        <div class="col-md-12">
            <div class="card strpied-tabled-with-hover">
                <div class="card-header ">
                    <h4 class="card-title">Registered HousingOfficer</h4>
                </div>
                <div class="card-body table-full-width table-responsive">
                    <table class="table table-hover table-striped">
                        <thead>
                            <th>Housing Officer ID</th>
                            <th>Full Name</th>
                            <th>Username</th>
                            <th>Email</th>
                        </thead>
                        <tbody>
                            @foreach ($housingofficers as $user)
                            <tr>
                                <td>{{ $user->id}}</td>
                                <td>{{ $user->fullname}}</td>
                                <td>{{ $user->username}}</td>
                                <td>{{ $user->email}}</td>
                            </tr>
                            @endforeach
                        </tbody>
                    </table>
                </div>
            </div>
        </div>
    </div>
</div>
@endsection
@section('scripts')
```

This function is to call the table housing officer in the database, which is register by the housing and will display in the Housing Officer Menu

```
public function viewhousingofficer(){
    $filter = 'Housingofficer';
    $housingofficers = User::where('usertype',$filter)->get();
    return view('Housingofficer.viewhousingofficer')->with('housingofficers',$housingofficers);
}
public function editapplicant($id){
```

This display for view housing officer in the housing officer menu

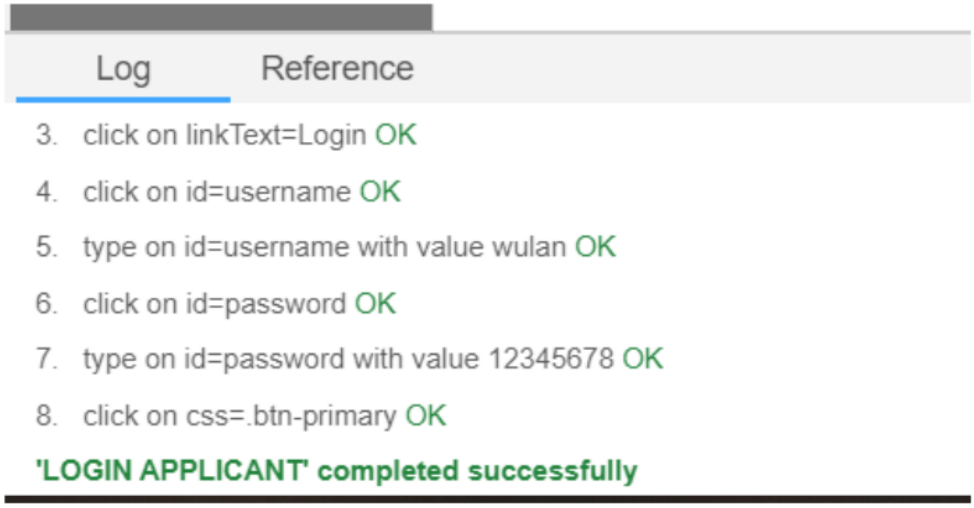


Integration Testing

We use Selenium-Web Driver application. The system will run based on the functions existed in each use case. The result of the testing will be exported in a Python .py file.

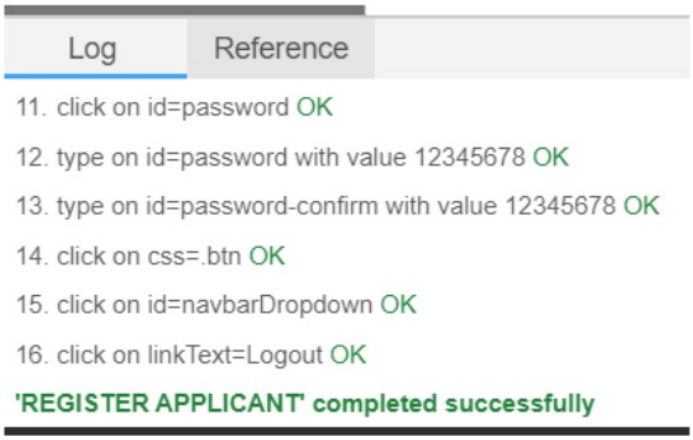
1. Login Applicant

```
def test_lOGINAPPLICANT(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(783, 824)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("wulan")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
```



2. Register Applicant

```
def test_rEGISTERAPPLICANT(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1552, 840)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.LINK_TEXT, "Register").click()
  self.driver.find_element(By.ID, "name").click()
  self.driver.find_element(By.ID, "name").send_keys("foo")
  self.driver.find_element(By.ID, "username").send_keys("foo by foo")
  self.driver.find_element(By.ID, "email").send_keys("foo@gmail.com")
  self.driver.find_element(By.ID, "monthlyincome").click()
  self.driver.find_element(By.ID, "monthlyincome").send_keys("800")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.ID, "password-confirm").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```



3. Submit Application – Applicant

```
def test_sUBMITAPP(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1552, 840)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("wulan")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.LINK_TEXT, "Home").click()
  self.driver.find_element(By.ID, "navbardrop").click()
  self.driver.find_element(By.LINK_TEXT, "Account Details").click()
  self.driver.find_element(By.CSS_SELECTOR, ".close").click()
  self.driver.find_element(By.LINK_TEXT, "Application").click()
  self.driver.find_element(By.LINK_TEXT, "Residence").click()
  self.driver.find_element(By.LINK_TEXT, "Contact").click()
  self.driver.find_element(By.LINK_TEXT, "Residence").click()
  self.driver.find_element(By.CSS_SELECTOR, ".btn-success").click()
  self.driver.find_element(By.CSS_SELECTOR, ".ibg-bg").click()
  self.driver.find_element(By.LINK_TEXT, "Submit Application").click()
  self.driver.find_element(By.NAME, "requiredMonth").click()
  self.driver.find_element(By.NAME, "requiredMonth").send_keys("December")
  self.driver.find_element(By.NAME, "requiredYear").send_keys("2021")
  self.driver.find_element(By.CSS_SELECTOR, ".form-inline").click()
  self.driver.find_element(By.CSS_SELECTOR, ".btn-sm").click()
  self.driver.find_element(By.ID, "navbardrop").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

21. type on name=requiredMonth with value December OK
22. type on name=requiredYear with value 2021 OK
23. click on css=.form-inline OK
24. click on css=.btn-sm OK
25. click on id=navbardrop OK
26. Trying to find linkText=Logout... OK

'SUBMIT APP' completed successfully

applicationID	applicationDate	requiredMonth	requiredYear	status	residenceID	userID
	15:15:15	June	2020	Processing	100040	2020101
	16:09:09	September	2021	Processing	100040	2020103
1750102	2020-04-04 18:32:41	August	2020	Processing	100041	2020104
1750105	2020-04-04 19:26:17	December	2021	Processing	100040	2020101

Click the drop-down arrow to toggle column's visibility.

4. Login & Logout - Housing Officer

```
def test_lOGINLOGOUTADMIN(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1030, 543)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.CSS_SELECTOR, ".form-group:nth-child(3)").click()
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

6. click on css=.form-group:nth-child(3) OK
7. click on id=password OK
8. type on id=password with value 12345678 OK
9. click on css=.btn-primary OK
10. click on id=navbarDropdown OK
11. click on linkText=Logout OK

'LOGIN & LOGOUT ADMIN' completed successfully

5. Set Up New Residence – HousingOfficer

```
def test_setUpNewResidence(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1030, 543)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, ".nav-item:nth-child(3) p").click()
  self.driver.find_element(By.NAME, "address").click()
  self.driver.find_element(By.NAME, "address").send_keys("Jakarta")
  self.driver.find_element(By.NAME, "numunits").send_keys("10")
  self.driver.find_element(By.NAME, "sizeperunits").send_keys("600 m2")
  self.driver.find_element(By.NAME, "monthlyrental").click()
  self.driver.find_element(By.NAME, "monthlyrental").send_keys("3000")
  self.driver.find_element(By.NAME, "submit").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

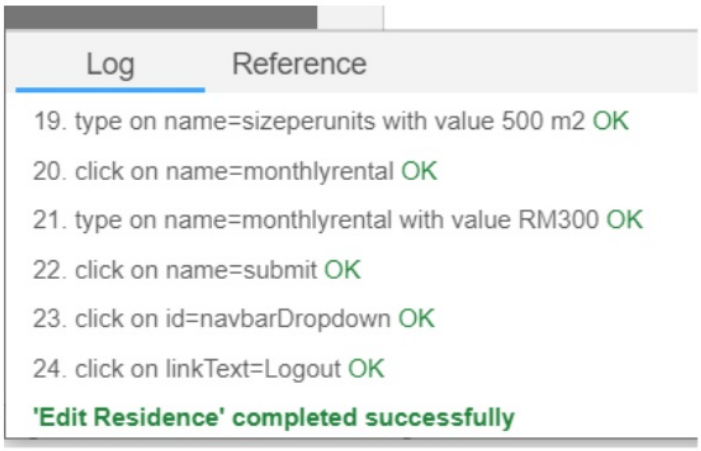
Log Reference

12. type on name=sizeperunits with value 600 m2 OK
13. click on name=monthlyrental OK
14. type on name=monthlyrental with value 3000 OK
15. click on name=submit OK
16. click on id=navbarDropdown OK
17. click on linkText=Logout OK

'SetUpNewResidence' completed successfully

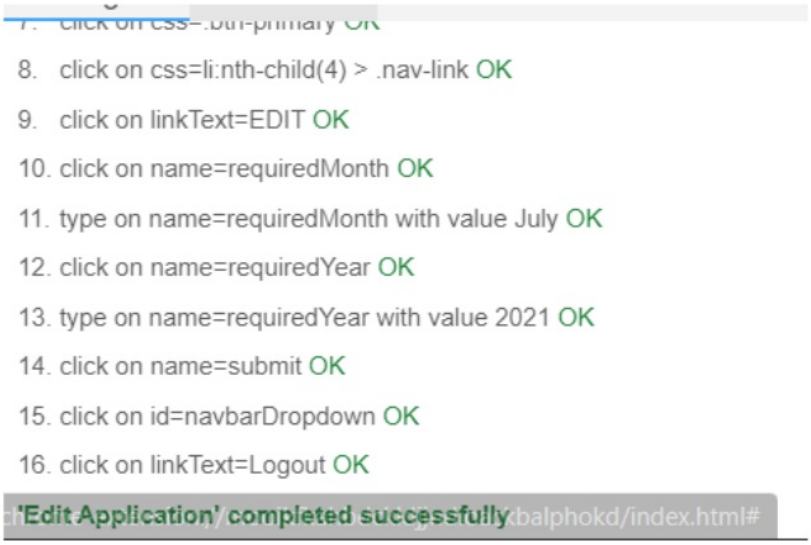
6. Edit Residence – HousingOfficer

```
def test_editResidence(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1030, 543)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, ".nav-item:nth-child(4) > .nav-link").click()
  self.driver.find_element(By.CSS_SELECTOR, "tr:nth-child(2) .btn").click()
  self.driver.find_element(By.NAME, "address").click()
  self.driver.find_element(By.NAME, "address").click()
  self.driver.find_element(By.NAME, "address").click()
  self.driver.find_element(By.NAME, "numunits").click()
  self.driver.find_element(By.NAME, "numunits").send_keys("12")
  self.driver.find_element(By.NAME, "sizeperunits").click()
  self.driver.find_element(By.NAME, "sizeperunits").click()
  self.driver.find_element(By.NAME, "sizeperunits").click()
  self.driver.find_element(By.NAME, "sizeperunits").send_keys("500 m2")
  self.driver.find_element(By.NAME, "monthlyrental").click()
  self.driver.find_element(By.NAME, "monthlyrental").send_keys("RM300")
  self.driver.find_element(By.NAME, "submit").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```



7. Edit Application – HousingOfficer

```
def test_editApplication(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1144, 760)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(4) > .nav-link").cl:
  self.driver.find_element(By.LINK_TEXT, "EDIT").click()
  self.driver.find_element(By.NAME, "requiredMonth").click()
  self.driver.find_element(By.NAME, "requiredMonth").send_keys("July")
  self.driver.find_element(By.NAME, "requiredYear").click()
  self.driver.find_element(By.NAME, "requiredYear").send_keys("2021")
  self.driver.find_element(By.NAME, "submit").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```



8. Delete Application – HousingOfficer

```
def test_deleteApplication(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1144, 760)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(4) > .nav-link")
  self.driver.find_element(By.CSS_SELECTOR, "tr:nth-child(2) .btn-danger")
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

3. click on linkText=Login OK
4. click on id=username OK
5. type on id=username with value aldobagus OK
6. click on id=password OK
7. type on id=password with value 12345678 OK
8. click on css=.btn-primary OK
9. click on css=li:nth-child(4) > .nav-link OK
10. click on css=tr:nth-child(2) .btn-danger OK
11. click on id=navbarDropdown OK
12. click on linkText=Logout OK

'Delete Application' completed successfully

9. Allocate Housing & View Allocation – HousingOfficer

```
def test_allocateHousing(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1146, 762)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(4) > .nav-link").cli
  self.driver.find_element(By.LINK_TEXT, "ALLOCATE").click()
  self.driver.find_element(By.LINK_TEXT, "Allocate").click()
  self.driver.find_element(By.NAME, "fromDate").click()
  self.driver.find_element(By.NAME, "fromDate").send_keys("2020-05-20")
  self.driver.find_element(By.NAME, "status").click()
  self.driver.find_element(By.NAME, "status").send_keys("Approved")
  self.driver.find_element(By.NAME, "payment_status").click()
  self.driver.find_element(By.NAME, "payment_status").click()
  self.driver.find_element(By.NAME, "payment_status").send_keys("Unpaid")
  self.driver.find_element(By.NAME, "submit").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(5) > .nav-link").cli
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

13. type on name=fromDate with value 2020-05-20 OK

14. click on name=status OK

15. type on name=status with value Approved OK

16. click on name=payment_status OK

17. click on name=payment_status OK

18. type on name=payment_status with value Unpaid OK

19. click on name=submit OK

20. click on css=li:nth-child(5) > .nav-link OK

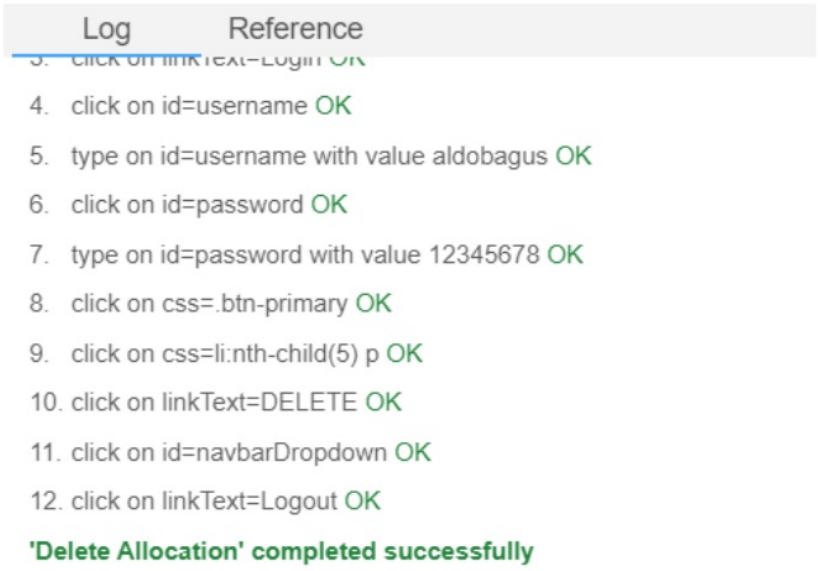
21. click on id=navbarDropdown OK

22. click on linkText=Logout OK

'Allocate Housing' completed successfully

10. Delete Allocation – HousingOfficer

```
def test_deleteAllocation(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1149, 764)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(5) p").click()
  self.driver.find_element(By.LINK_TEXT, "DELETE").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```



11. View & Edit Applicant – HousingOfficer

```
class TestViewEditApplicant():
  def setup_method(self, method):
    self.driver = webdriver.Chrome()
    self.vars = {}

  def teardown_method(self, method):
    self.driver.quit()

  def test_viewEditApplicant(self):
    self.driver.get("http://localhost:8000/")
    self.driver.set_window_size(1153, 767)
    self.driver.find_element(By.LINK_TEXT, "Login").click()
    self.driver.find_element(By.ID, "username").click()
    self.driver.find_element(By.ID, "username").send_keys("aldobagus")
    self.driver.find_element(By.ID, "password").click()
    self.driver.find_element(By.ID, "password").send_keys("12345678")
    self.driver.find_element(By.ID, "password").send_keys(Keys.ENTER)
    self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(6) > .nav-link").cli
    self.driver.find_element(By.CSS_SELECTOR, "tr:nth-child(2) .btn-warning").cl
    self.driver.find_element(By.NAME, "fullname").click()
    self.driver.find_element(By.NAME, "fullname").send_keys("I Putu Senna Hakkin
    self.driver.find_element(By.NAME, "submit").click()
    self.driver.find_element(By.ID, "navbarDropdown").click()
    self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

8. sendKeys on id=password with value ${KEY_ENTER} OK
9. click on css=li:nth-child(6) > .nav-link OK
10. click on css=tr:nth-child(2) .btn-warning OK
11. click on name=fullname OK
12. type on name=fullname with value I Putu Senna Hakkinanda OK
13. click on name=submit OK
14. click on id=navbarDropdown OK
15. click on linkText=Logout OK

'View & Edit Applicant' completed successfully

12. Delete Applicant – HousingOfficer

```
def test_deleteApplicant(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1157, 768)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(6) > .nav-link").cli
  self.driver.find_element(By.CSS_SELECTOR, "tr:nth-child(2) .btn-danger").cli
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

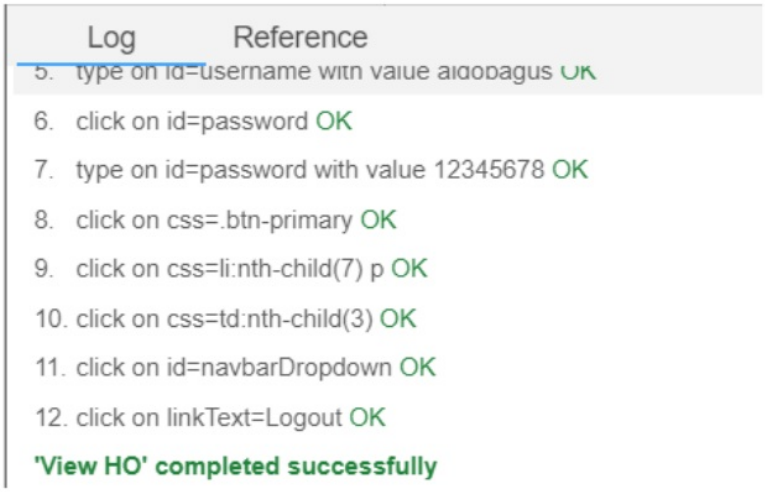
Log Reference

5. type on id=username with value aldobagus OK
6. click on id=password OK
7. type on id=password with value 12345678 OK
8. click on css=.btn-primary OK
9. click on css=li:nth-child(6) > .nav-link OK
10. click on css=tr:nth-child(2) .btn-danger OK
11. click on id=navbarDropdown OK
12. click on linkText=Logout OK

'Delete Applicant' completed successfully

13. View Housing Officer – HousingOfficer

```
def test_viewHO(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1160, 770)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("aldobagus")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, "li:nth-child(7) p").click()
  self.driver.find_element(By.CSS_SELECTOR, "td:nth-child(3)").click()
  self.driver.find_element(By.ID, "navbarDropdown").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```



14. View Allocation – Applicant

```
def test_viewAllocationUser(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1144, 760)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("wulan")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.CSS_SELECTOR, ".row:nth-child(5) > .col").click(
  self.driver.find_element(By.CSS_SELECTOR, ".table:nth-child(2) tr").click()
  self.driver.find_element(By.CSS_SELECTOR, ".row:nth-child(5) > .col").click(
  self.driver.find_element(By.CSS_SELECTOR, ".row:nth-child(5) > .col").click(
  self.driver.find_element(By.CSS_SELECTOR, ".row:nth-child(5) > .col").click(
  self.driver.find_element(By.ID, "navbardrop").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

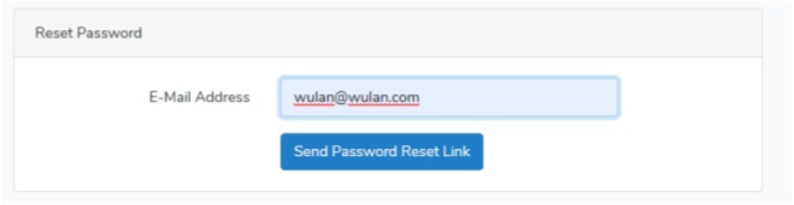
8. click on css=.btn-primary OK
9. click on css=.row:nth-child(5) > .col OK
10. click on css=.table:nth-child(2) tr OK
11. click on css=.row:nth-child(5) > .col OK
12. click on css=.row:nth-child(5) > .col OK
13. click on css=.row:nth-child(5) > .col OK
14. click on id=navbardrop OK
15. click on linkText=Logout OK

'View Allocation User' completed successfully

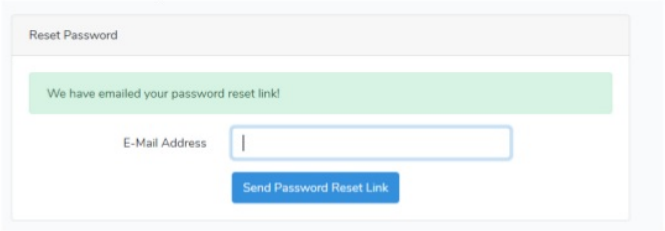
15. Change Password – Applicant / Housing Officer (Same System)

Note : Due to Selenium behavior, we were unable to test through the automated system, as the result, we have to test it manually. We use Mailtrap.io for the need of dummy test of change password

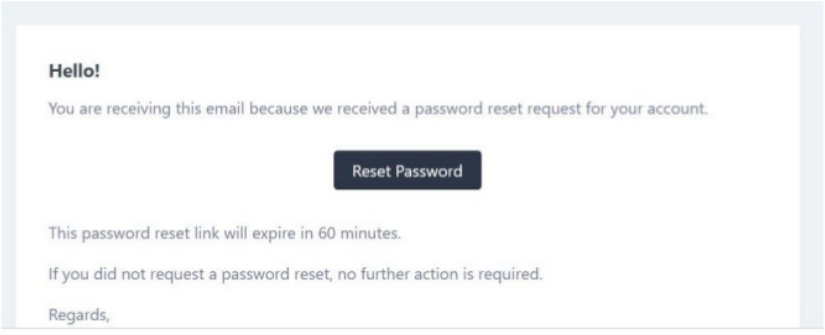
Clicking Change Password



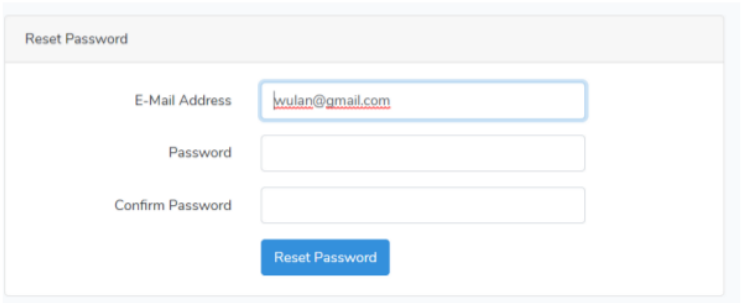
Enter your e-mail address linked to the current account.



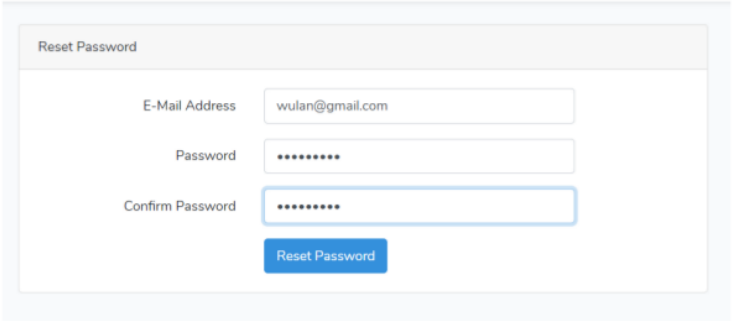
The system will sent an e-email containing link for password-reset



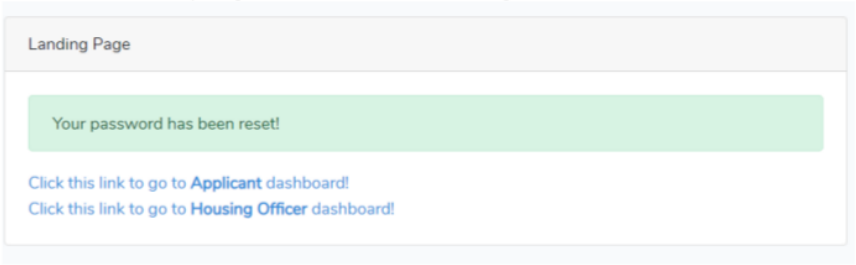
Here we use mailtrap.io for our dummy testing. The email has been received. Clicking the link.



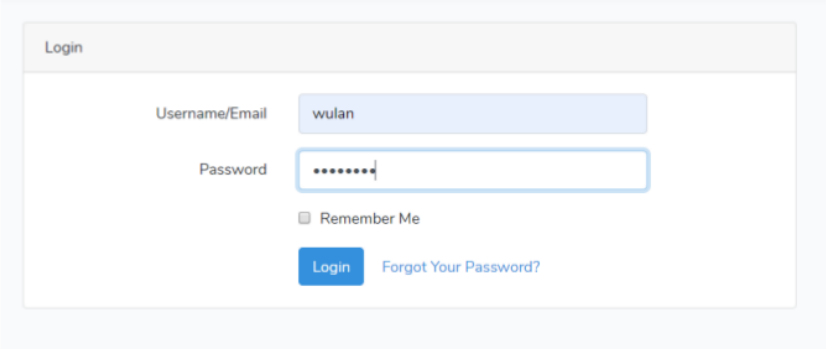
The link will redirect you to a form for changing your password. You just have to fill in the new one you have to use.



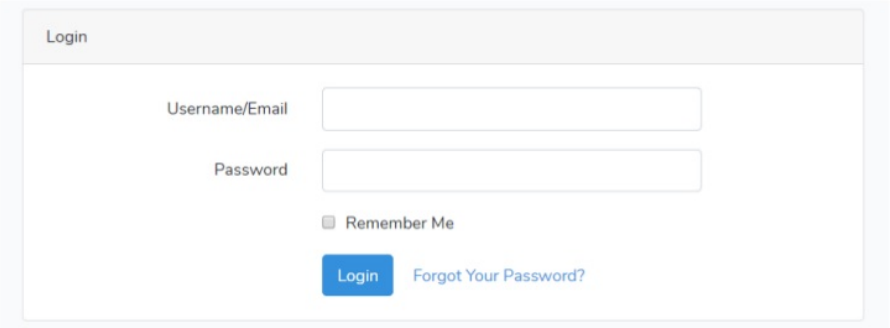
My old password is "12345678". I changed it to "master123"



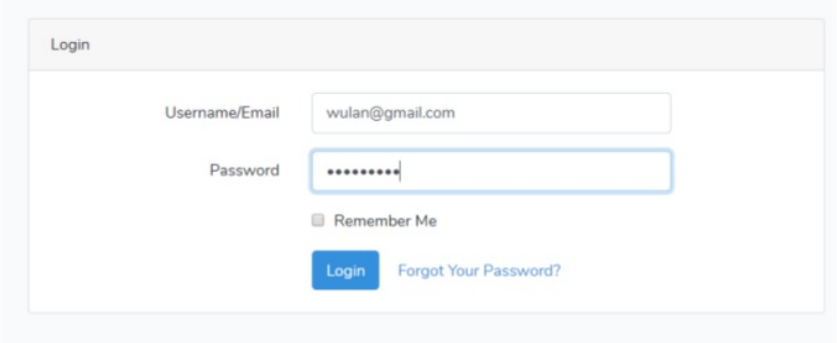
Password has been changed. From here, I try to logout and go to login form.



I try to log in with my old password.



However, the system rejected. This proves the password changes.



Now, I am trying to use my new password "master123"

And the system is logged in.

System Testing

Functional Requirements (updated)

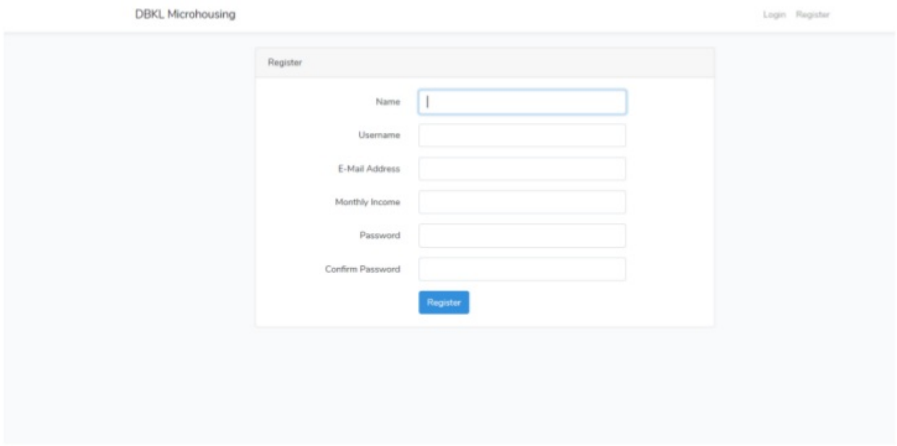
We will test the system according to the functional requirements.

1. Register for Applicant

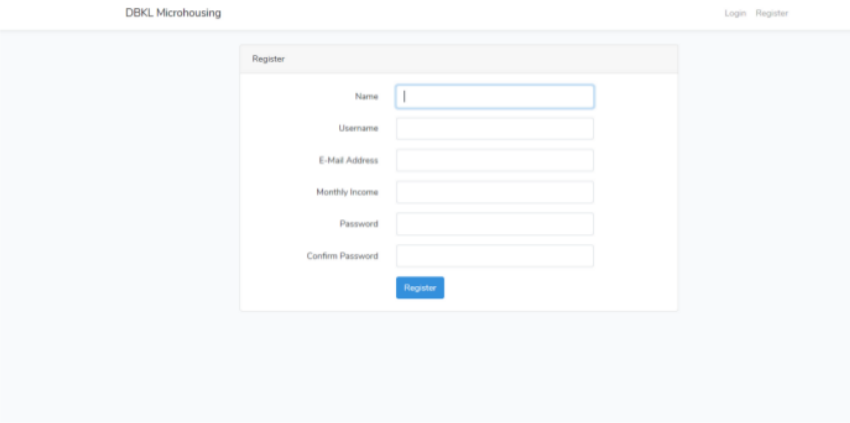
Testing start from the dashboard which is you enter the URL this is the dashboard page and register page.

The dashboard page

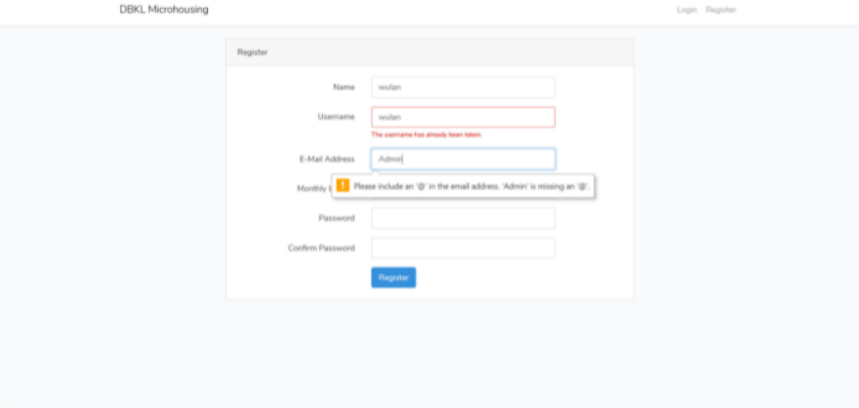
The register page



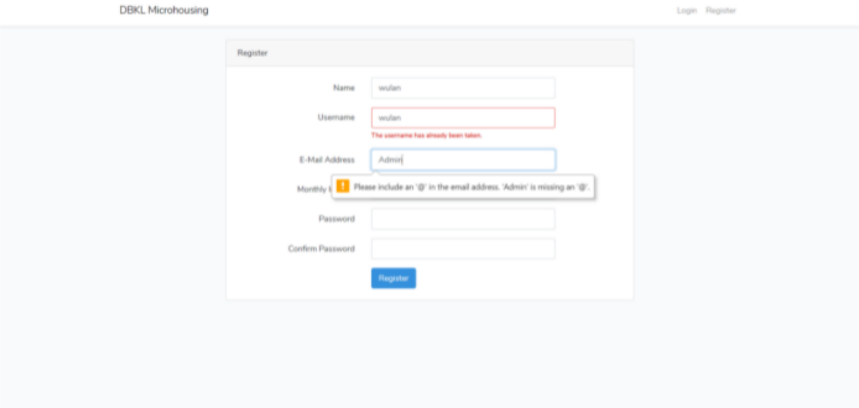
a. Applicant input blank information

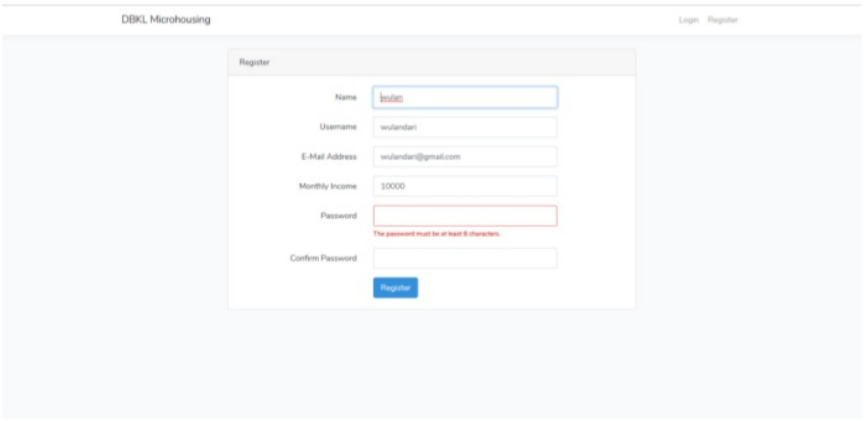


b. Applicant input wrong email or username which is already used



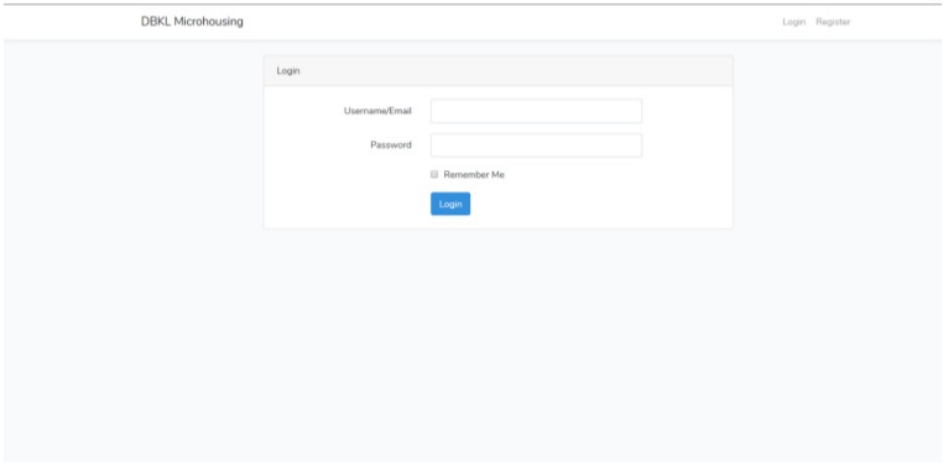
c. Applicant input invalid email and password (too short)





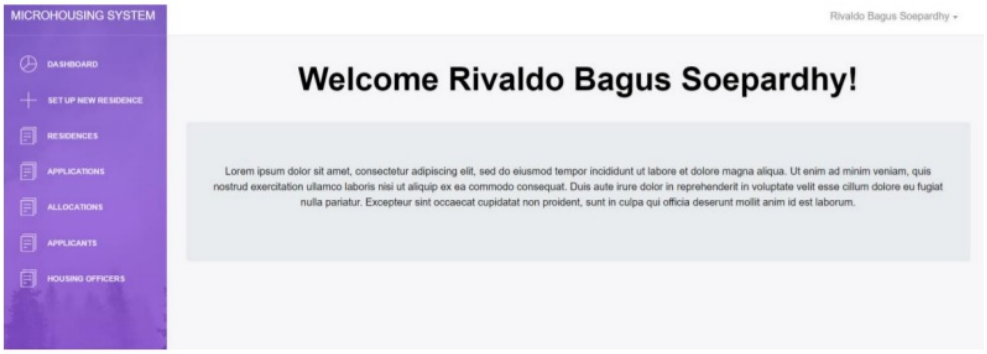
2. **Login**

Login page same location in the dashboard



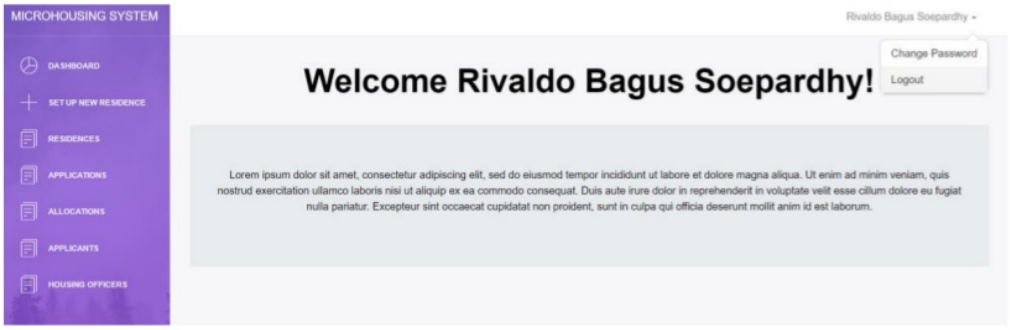
Applicant Homepage

Housing Officer Homepage



3. LogOut

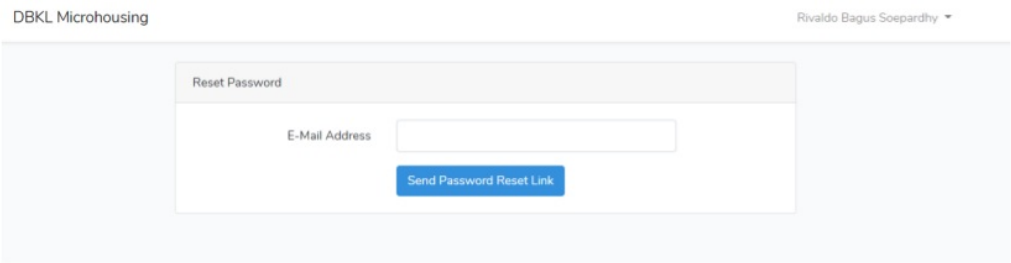
After login there are logout button above the page



Back to the dashboard

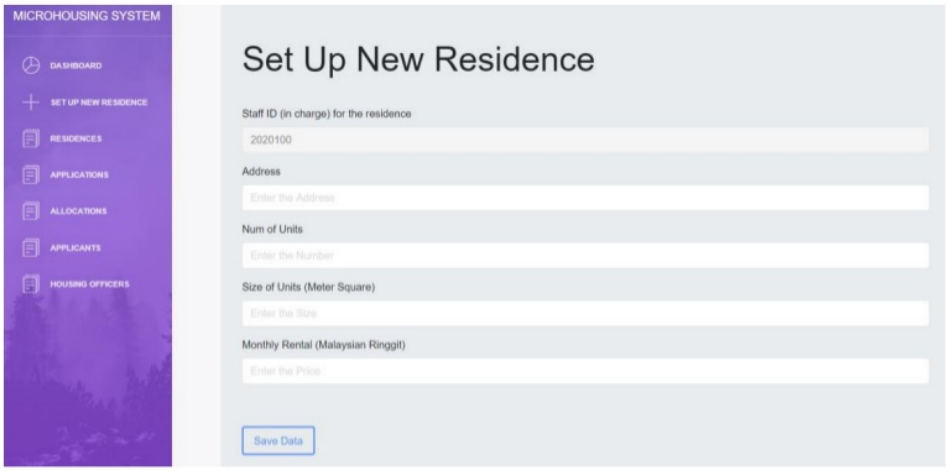
4. **Change Password**

Menu change password for user which will change the password



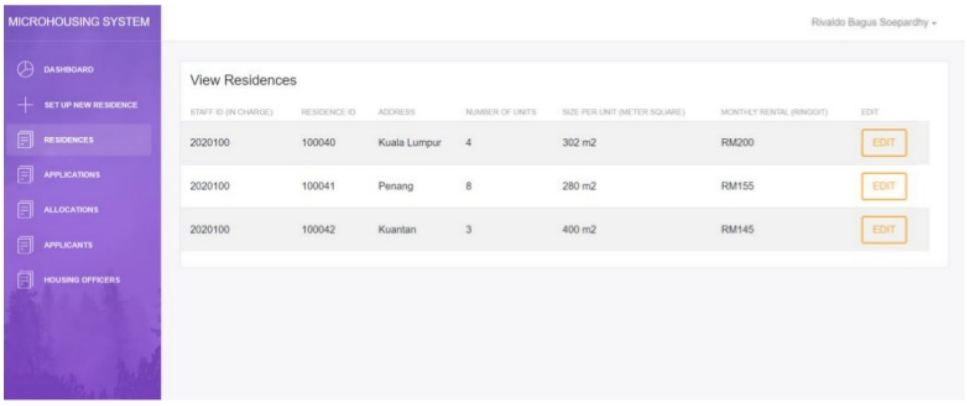
5. **Set Up New Residence**

Set Up New Residence menu located in housingofficer page



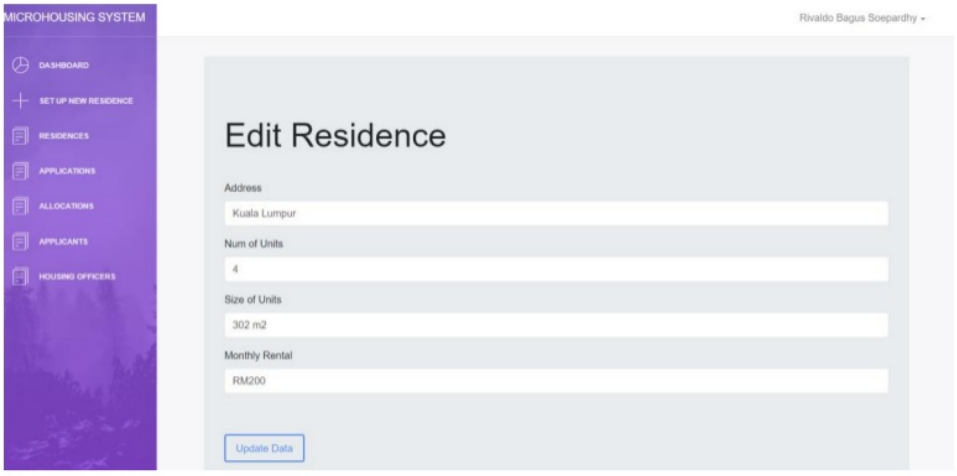
6. **View Residence Detail**

To view residence, which does the housing officer in the housing officer page already input



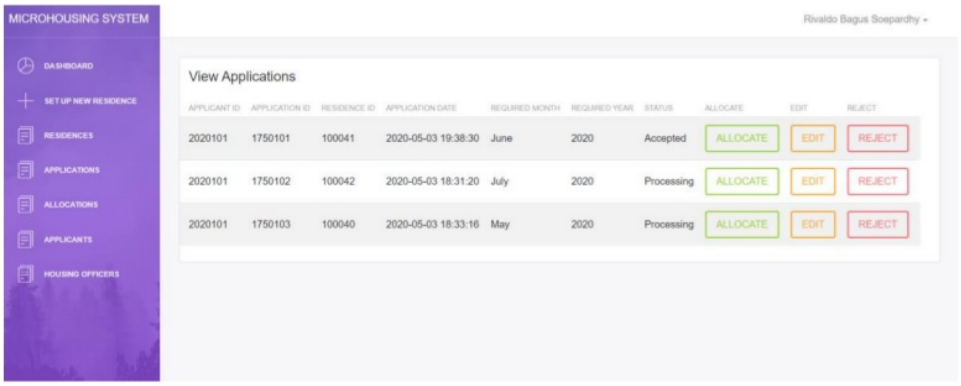
7. **Edit Residence Detail**

To edit the residence and update the data in housing officer page



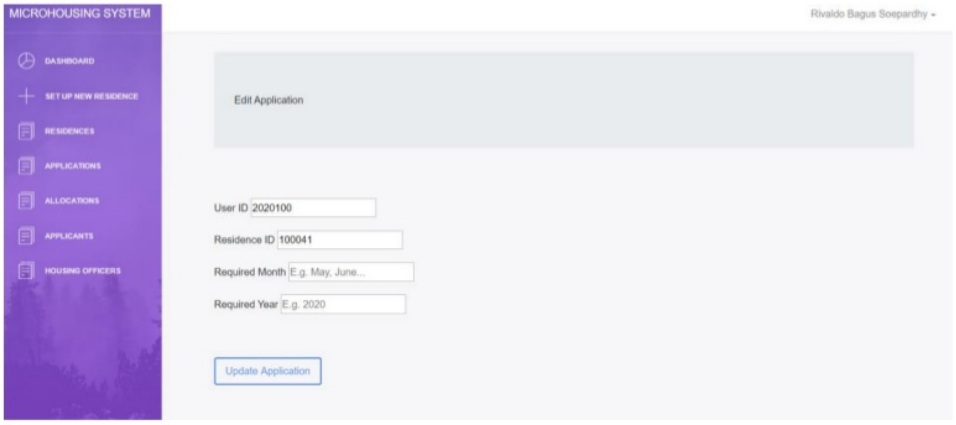
8. **View Applications**

To view the application which does the applicant already input.



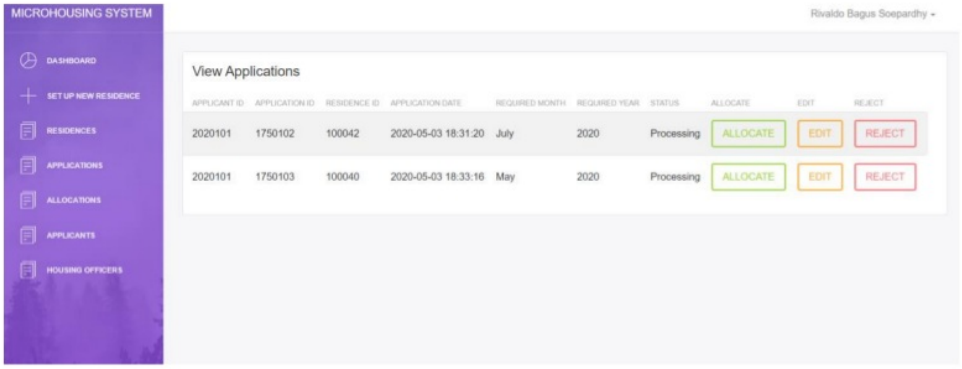
9. **Edit Applications**

To edit the applications and update the data in the database



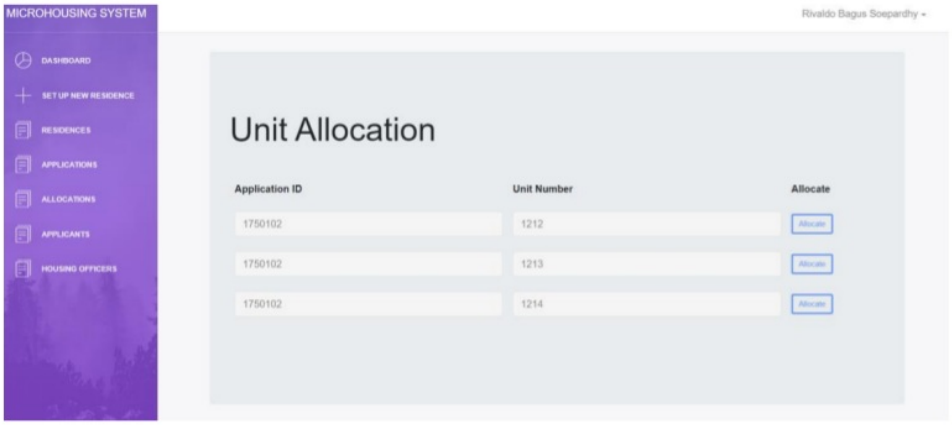
10. Delete Applications

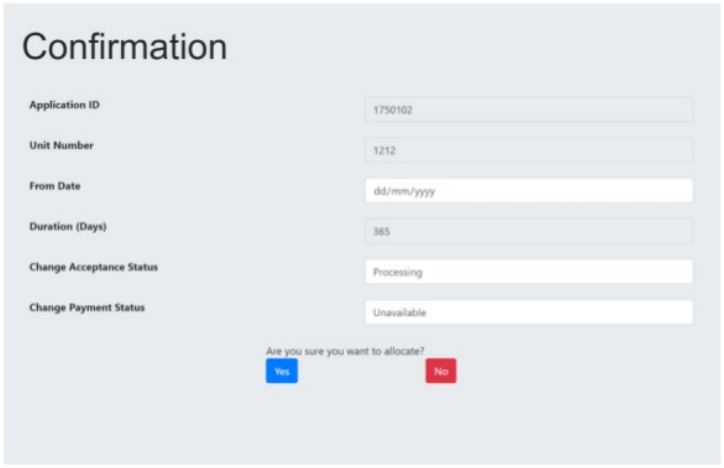
To delete the applications in the database



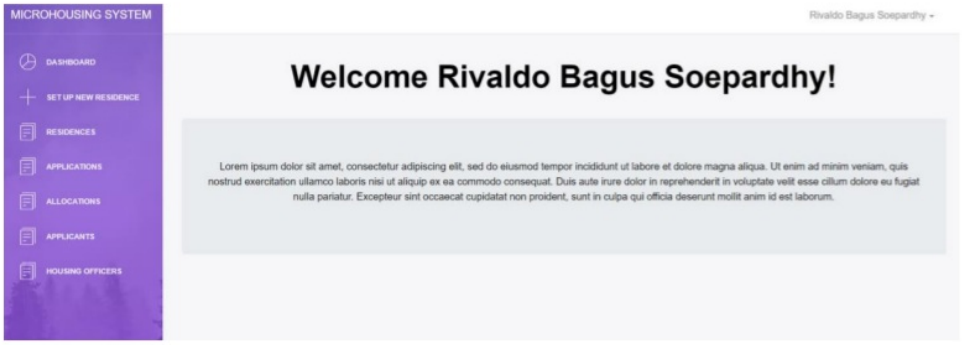
11. Allocate Housing

To allocate the housing for every unit in the residence to every applications



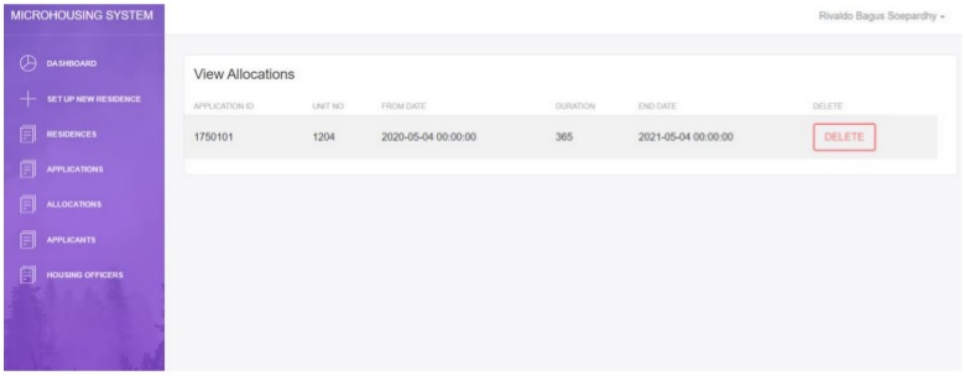


If the housing officer click the “No” button it will be back to dashboard for housing officer



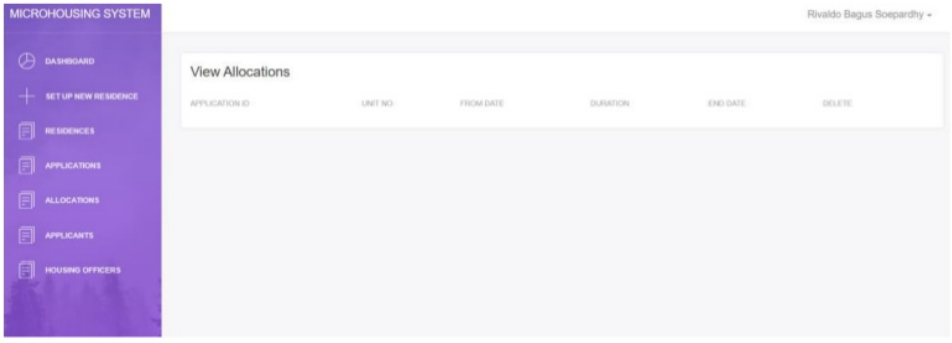
12. View Allocate Housing

To view all the allocation that input by the housing officer



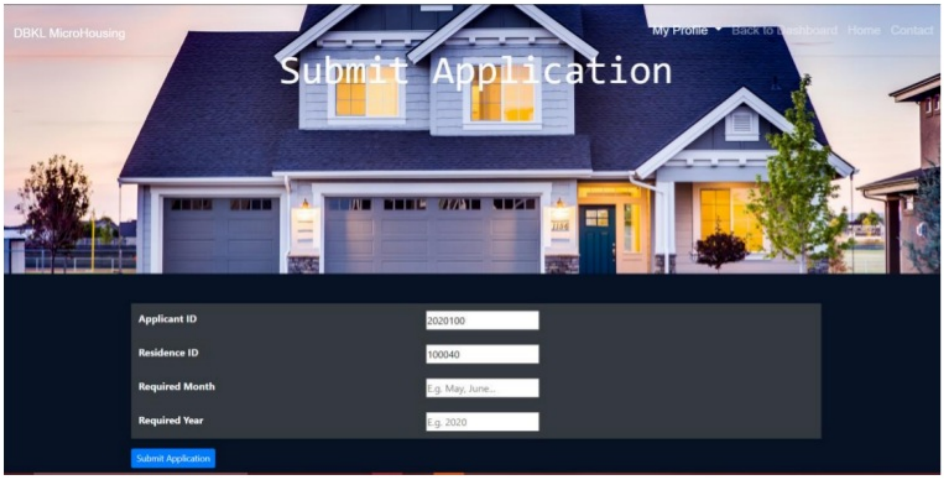
13. Delete Allocate Housing

To delete the allocation in the database

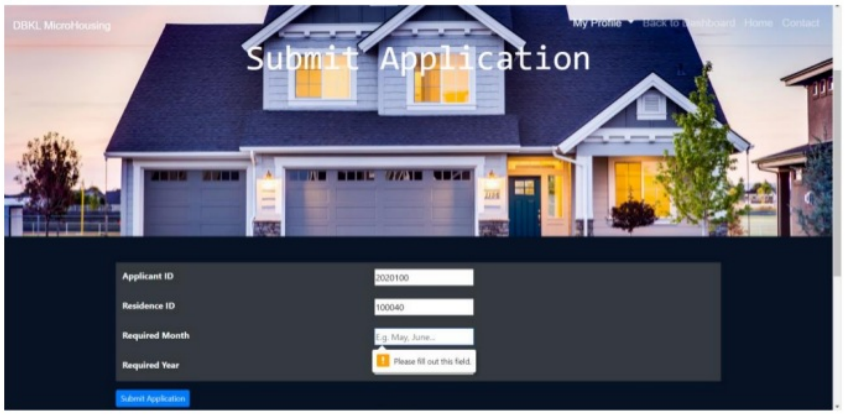


14. Submit Application

To submit the application



a. Applicant did not input the required month or required year

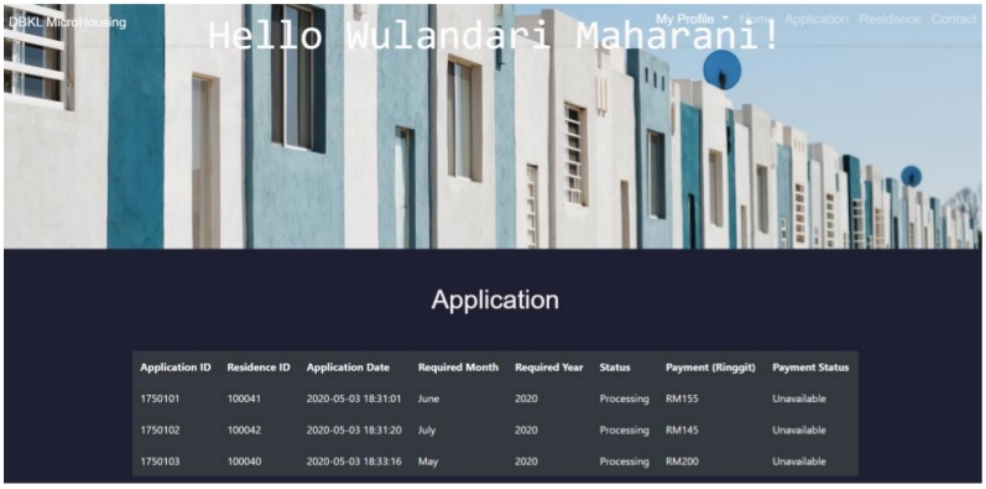


15. View Residence (Applicant)

To view all residence which is already make by the housing officer

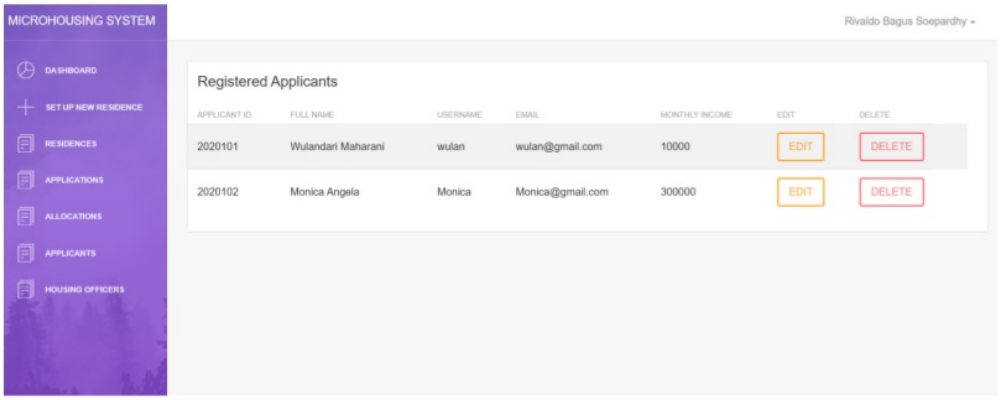
16. View Applications

To view submitted application by the applicant



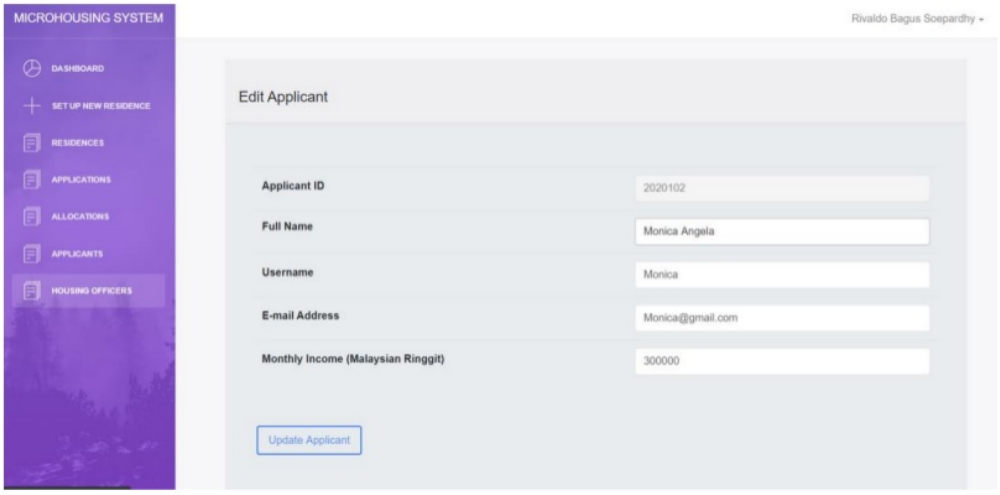
17. Registered Applicant

To display the entire applicant that already registered for every applicant



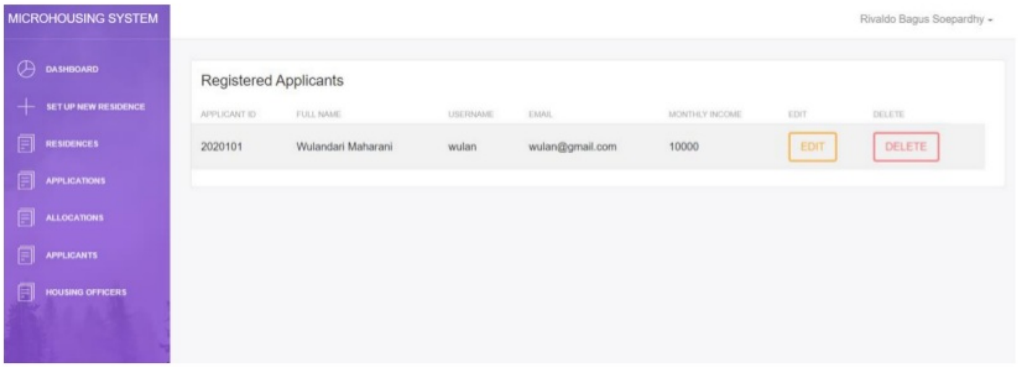
18. Edit Applicant

To edit the applicant in the form



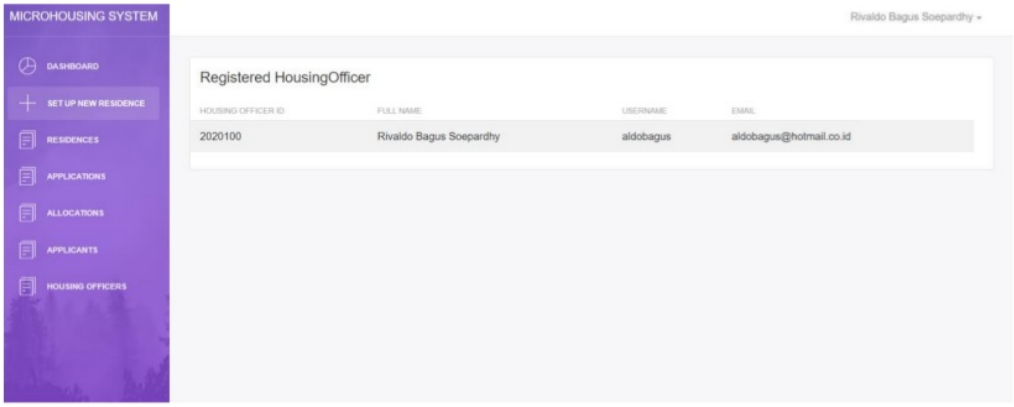
19. Delete Applicant

To delete the applicant when it's not in the system



20. Registered Housing Officer

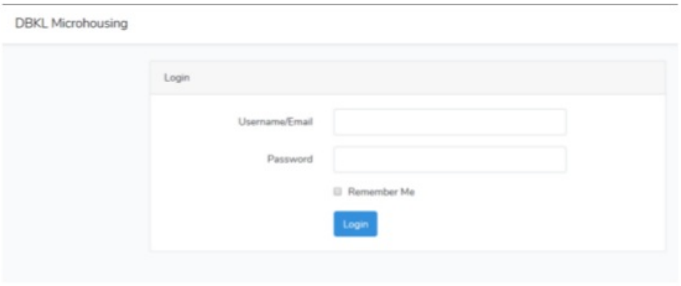
To display the entire housing officer that already registered for every housing officer



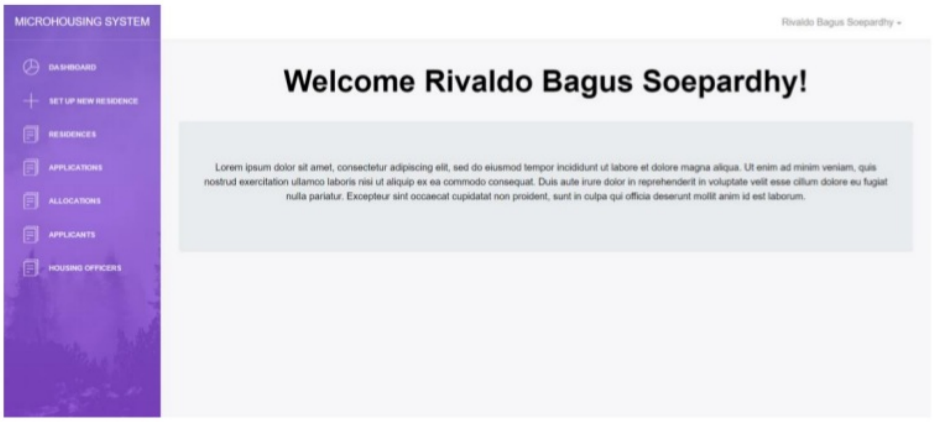
Non-functional Requirements

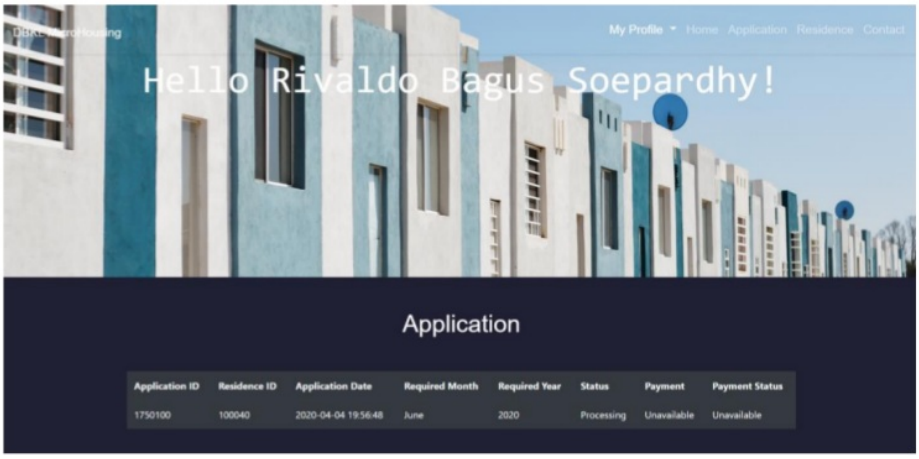
We will test the system according to the non-functional requirements that have been determined previously.

1. Security requirement: using login system for authorization to prevent unauthorized access of certain parties.



2. Usability: the system should be easy to access for Housing Officer and Applicant.





3. Accuracy and precision: Integrity which data has been inputted will still be the data entered. Data will be stored with its real value.

```
def test_sUBMITAPP(self):
  self.driver.get("http://localhost:8000/")
  self.driver.set_window_size(1552, 840)
  self.driver.find_element(By.LINK_TEXT, "Login").click()
  self.driver.find_element(By.ID, "username").click()
  self.driver.find_element(By.ID, "username").send_keys("wulan")
  self.driver.find_element(By.ID, "password").click()
  self.driver.find_element(By.ID, "password").send_keys("12345678")
  self.driver.find_element(By.CSS_SELECTOR, ".btn-primary").click()
  self.driver.find_element(By.LINK_TEXT, "Home").click()
  self.driver.find_element(By.ID, "navbardrop").click()
  self.driver.find_element(By.LINK_TEXT, "Account Details").click()
  self.driver.find_element(By.CSS_SELECTOR, ".close").click()
  self.driver.find_element(By.LINK_TEXT, "Application").click()
  self.driver.find_element(By.LINK_TEXT, "Residence").click()
  self.driver.find_element(By.LINK_TEXT, "Contact").click()
  self.driver.find_element(By.LINK_TEXT, "Residence").click()
  self.driver.find_element(By.CSS_SELECTOR, ".btn-success").click()
  self.driver.find_element(By.CSS_SELECTOR, ".ibg-bg").click()
  self.driver.find_element(By.LINK_TEXT, "Submit Application").click()
  self.driver.find_element(By.NAME, "requiredMonth").click()
  self.driver.find_element(By.NAME, "requiredMonth").send_keys("December")
  self.driver.find_element(By.NAME, "requiredYear").send_keys("2021")
  self.driver.find_element(By.CSS_SELECTOR, ".form-inline").click()
  self.driver.find_element(By.CSS_SELECTOR, ".btn-sm").click()
  self.driver.find_element(By.ID, "navbardrop").click()
  self.driver.find_element(By.LINK_TEXT, "Logout").click()
```

Log Reference

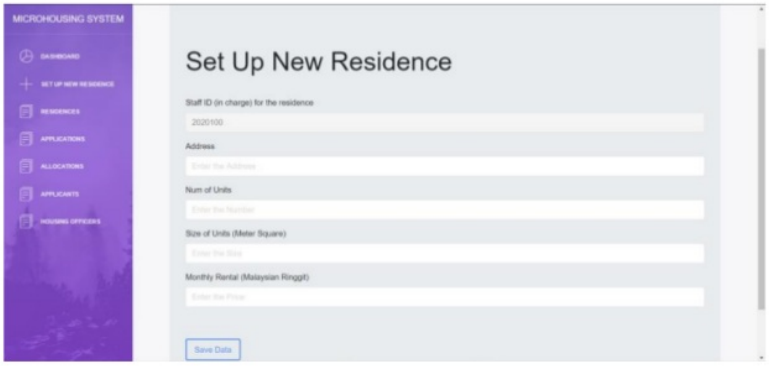
21. type on name=requiredMonth with value December OK
22. type on name=requiredYear with value 2021 OK
23. click on css=.form-inline OK
24. click on css=.btn-sm OK
25. click on id=navbardrop OK
26. Trying to find linkText=Logout... OK

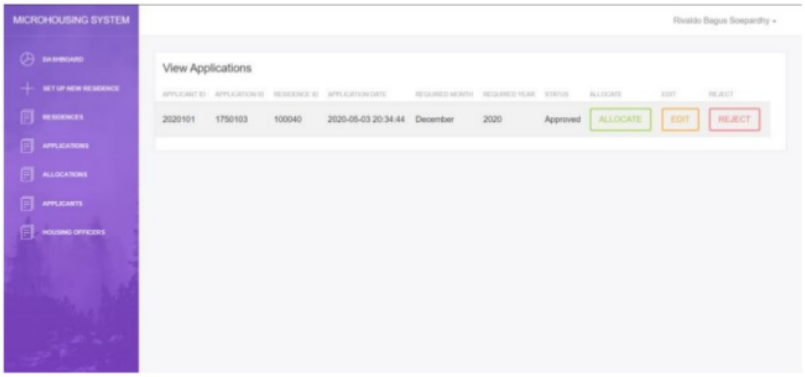
'SUBMIT APP' completed successfully

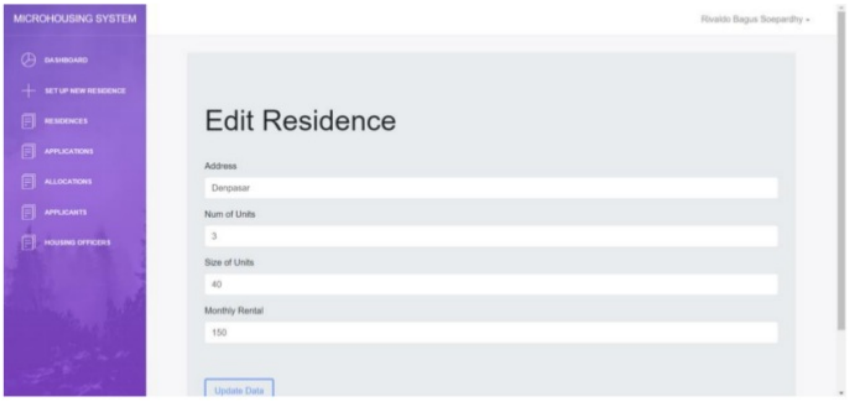
applicationID	applicationDate	requiredMonth	requiredYear	status	residenceID	userID
1750100	2020-04-04 15:15:15	June	2020	Processing	100040	2020101
1750101	2020-04-04 16:09:09	September	2021	Processing	100040	2020103
1750102	2020-04-04 18:32:41	August	2020	Processing	100041	2020104
1750105	2020-04-04 19:26:17	December	2021	Processing	100040	2020101

Click the drop-down arrow to toggle column's visibility.

4. Modifiability: data can only be change by authorized user (HousingOfficer).







Test Analysis Report

After conducting all of the required tests with full functionality, we can say the system is working normally. From unit, integration and system testing, we can say that the system and codes are working fine and has passed the testing process. The scope of our testing is to make sure every functions of the system can work perfectly according what the tasks they are assigned.

Conclusion

Here is our review for the project:

- By Rivaldo Bagus Soepardhy | E1700882

After all of the process of developing, I think we already did a very good job. Although we are inexperience, still new to programming, we still managed to finish the project. From my perspective, supported with all of the testing has been done, we managed to reach our goal in Assignment 1. We must admit that we are still inconsistent in our timing because of our personal interest, lack of skill, and a lot of miscommunication. However, that does not hinder the fact that we can managed to finish the web with very functional system.

Something that went wrong with this project is our timing, skill, and communication. Even though we already try to make schedules (Gantt chart, etc.), we are still left behind due to our lack of skill in coding, resulting in unexpected long work hour, because there are many unexpected obstacles, such as errors, bugs, and false-logic of code. As for our communication, miscommunication still in present. In fact, due to recently Covid19 pandemic, making the communication even harder, because we have to communicate through devices instead of direct meeting. This even lead to more miscommunication, misinterpretation, and misunderstanding.

Although so, things that are went right is our cooperation. With all of the challenge we have in our project, we still managed to keep our cooperation and better understanding in mind. The perseverance from each of us to keep working hard in the project is paying off. We also managed to keep help each other when there is trouble existed. We really understand the meaning of cooperation, because this is the key for our team to finish the project.

Some of the things that I would have done differently is to carefully designing. This is a very critical part as this is our big picture of how our system will become. Inconsistent may present, but we still need to keep the basic design unchanged, to make sure the system will work as what we want to. Time-persistent is also what I would need to keep fighting with, as in this case of condition, communication and personal interest is changed drastically. I may also have just upgrade my skill in coding, so we can be less stressed due to our lack of skill in coding.

- By Luh Wulandari Maharani | E1700873

1. **Did the group meet the objectives defined in Assignment 1?**

   From Assignment 1 our system is running well and beyond our expectations like the system is right - means all the way, the UI looks great and is easily accessed by the user.

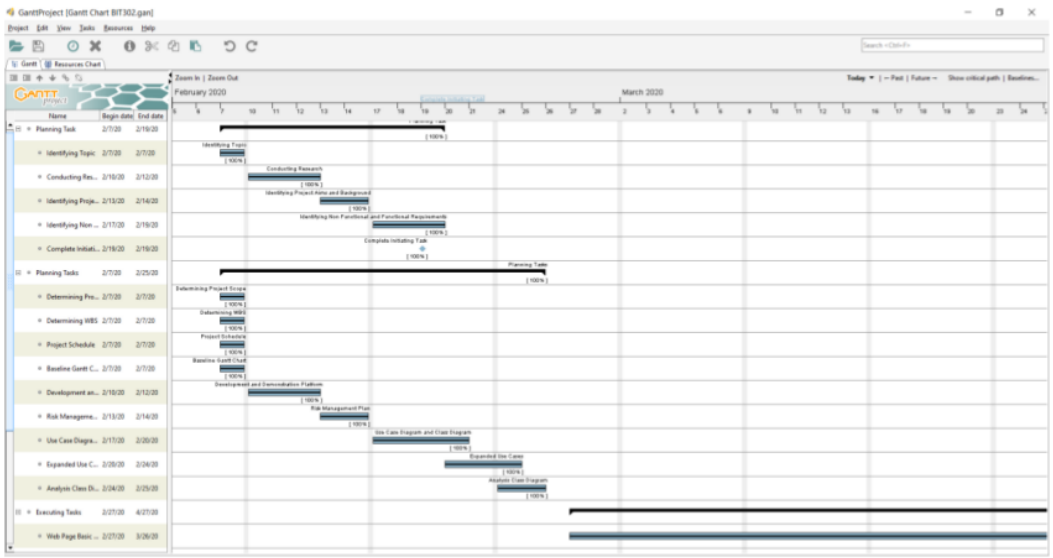
2. **What went wrong and what went right?**

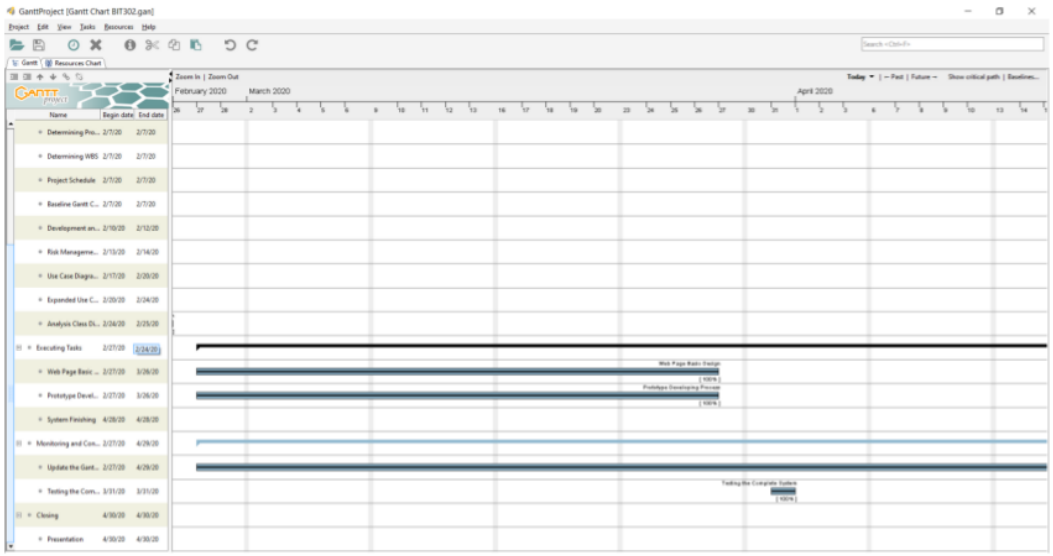
   - What went wrong from our project is we are late one day in making use cases and web design due to a religious ceremony, in a skill I could say I still learning to use laravel here I need time to understand the framework that I use
   - What went right from our project that is we have good cooperation to make this project and communication is very smooth there are no obstacles at all.

3. **What you would have done differently?**

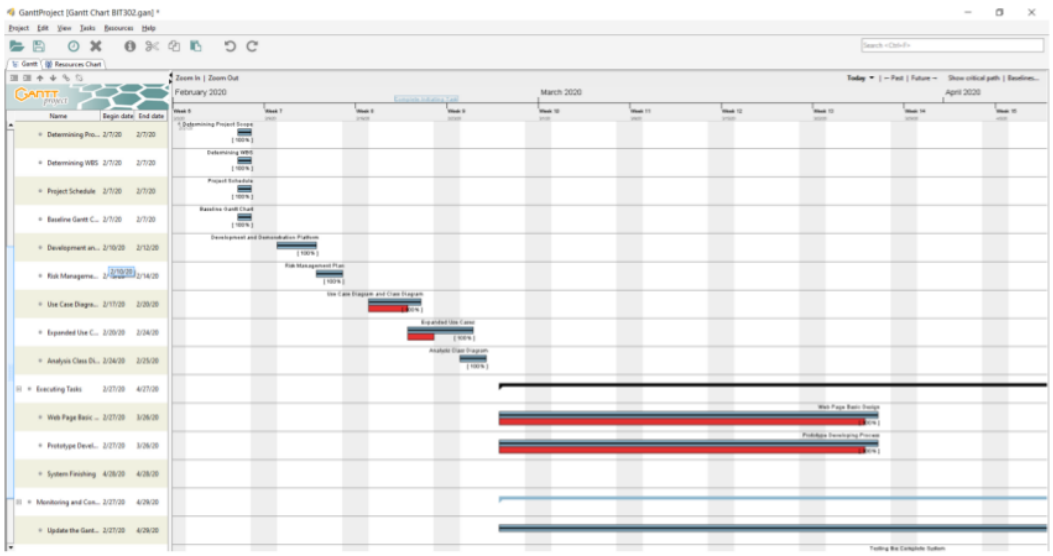
   Although I do not understand and have never touched the framework, I still want to learn to use it in addition to our system project running, I can also add to my experience in the framework.

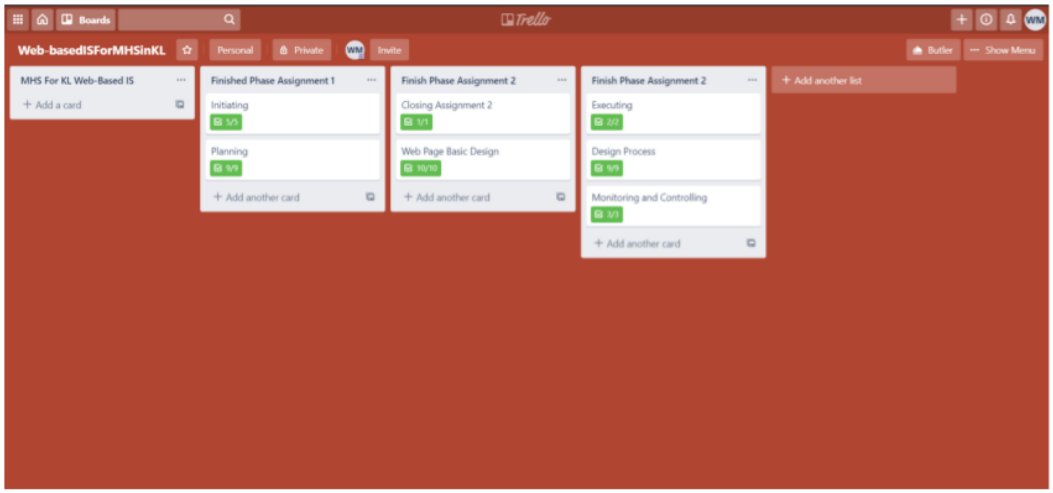
Updated Gantt Chart, Trello Board, GitHub



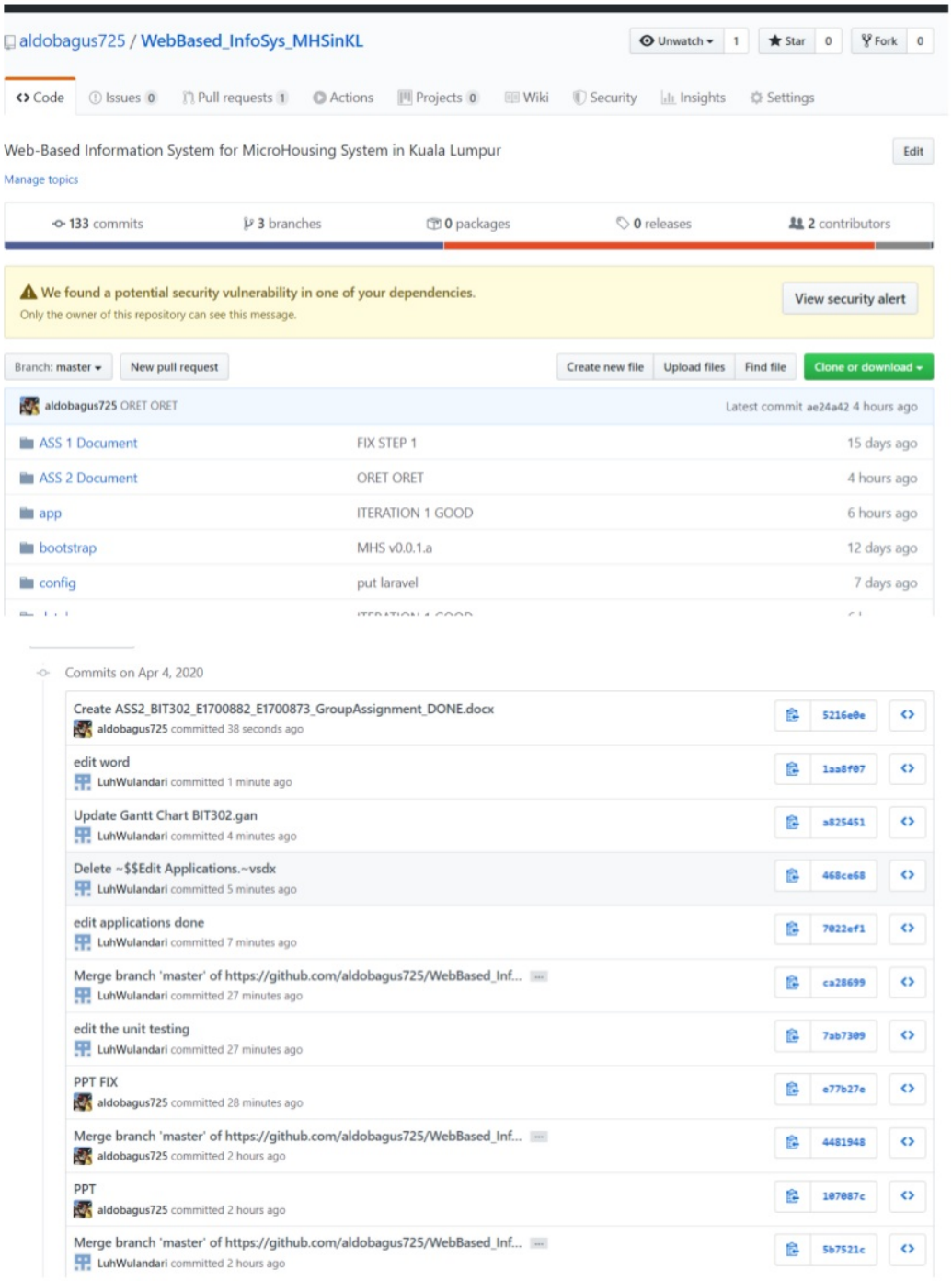


Baseline Gantt Chart





https://github.com/aldobagus725/WebBased_InfoSys_MHSinKL



ASS3_BIT302_E1700882_E1700873_GroupAssignment - revised

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