# Assignment2\_BIT302\_I Kadek Bagus Paradhita Utama(E1700866)\_I Nengah Wahyudi Setiawan(E1700868)

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## BIT302 SOFTWARE ENGINEERING ASSIGNMENT 2



#### **Project Title:**

**Information System for MHS** 

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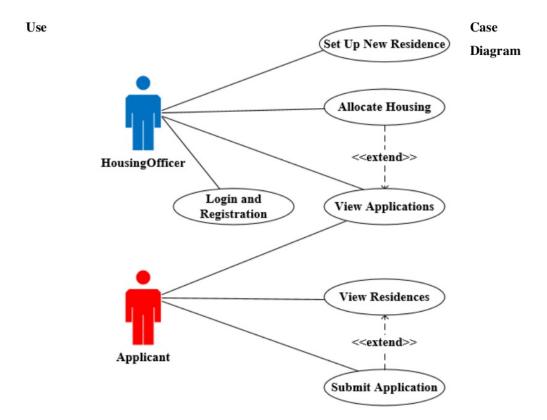
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#### Introduction

Big cities do offer a variety of business or work opportunities and special tourist attractions to explore. Starting from shopping centers, amusement parks, education centers and rows of office buildings with job vacancies offered, all can be found in big cities easily. However, all this luxury is also accompanied by expensive living costs, especially in the residential sector, which will certainly be a big problem for young people who have to live independently, such as students, recent graduates and job seekers.

Proposals to overcome the housing crisis in big cities have actually been proposed in the United States, Canada and Hong Kong in a variety of different ways. Meanwhile, young people in Kuala Lumpur also face a similar problem. Therefore, the Kuala Lumpur City Hall (DBKL) has proposed a scheme to help young people to rent affordable accommodations called Micro Houses.

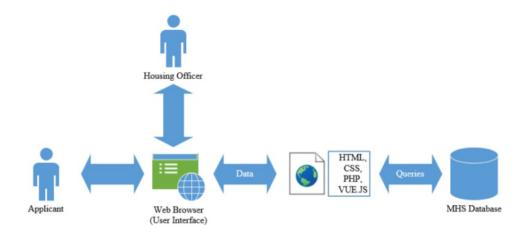
However, maybe not too many people know about this Micro House. Therefore, in this project we are considering creating an information system for MHS (Micro Housing System) for DBKL. Our team has decided to plan and build an information system where home seekers themselves will be able to search and view a list of Micro Houses that are available along with the facilities offered.

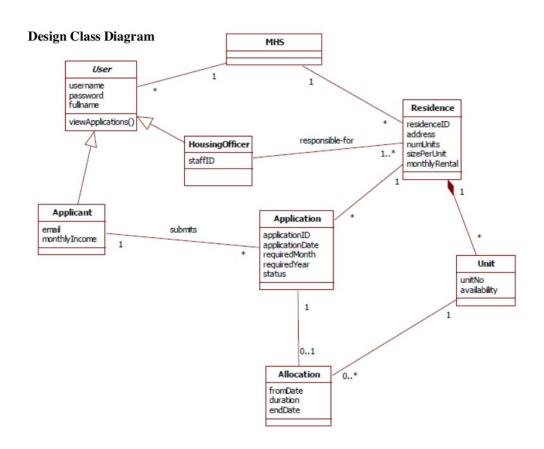


#### Note:

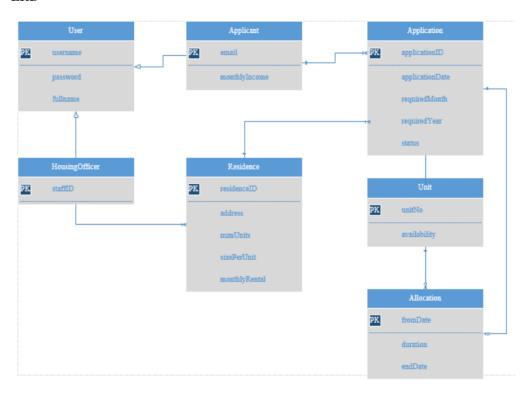
We added the Login and Register to the use case diagram because the Micro Housing System requires a Login and Register page to log in to MHS and register to MHS.

#### **Architectural Design**

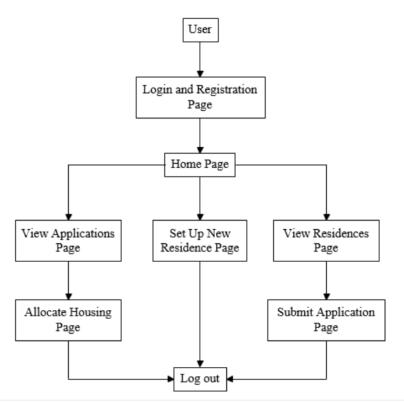




#### **ERD**





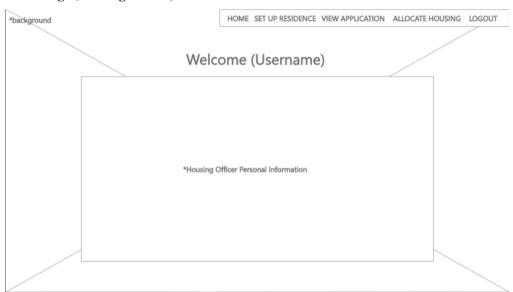


#### Generic User Experience/Wireframe

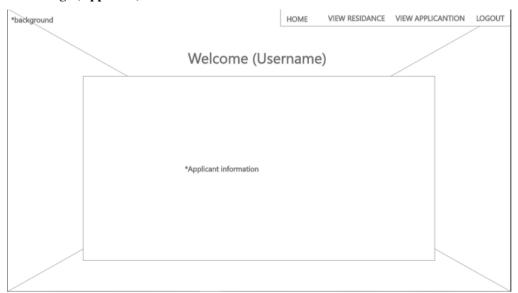
#### 1. Login and Registration Page



#### 2. Home Page (Housing Officer)



#### 3. Home Page (Applicant)



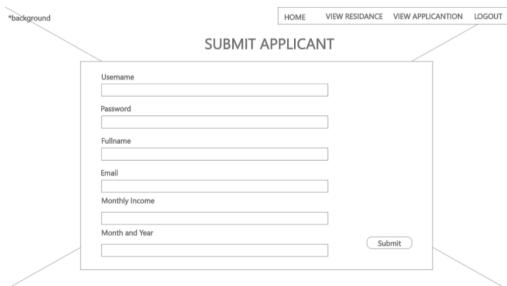
#### 4. Set Up New Residence Page



#### 5. View Residences Page



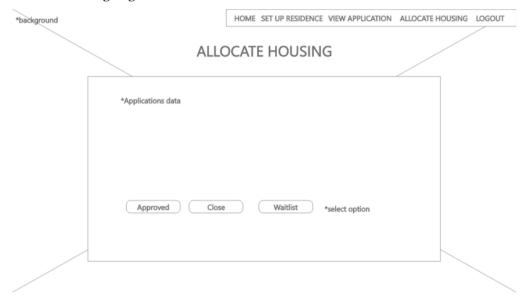
#### 6. Submit Application Page



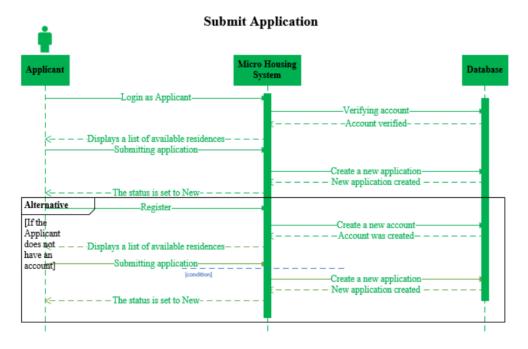
#### 7. View Applications Page

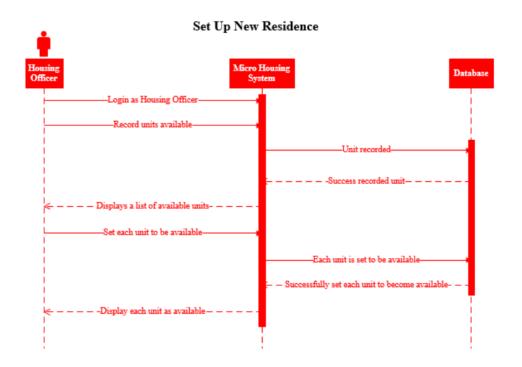


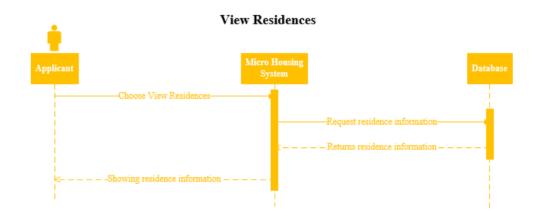
#### 8. Allocate Housing Page



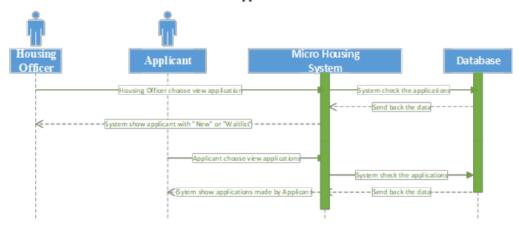
#### **System Sequence Diagram + Contracts**







#### View Application



#### Allocate Housing Micro Housing Database Officer System applicantion to allocate housing and the data is already selected Calculate end Date Taking data-·Showing the data alt If The other application that has same Applicant are set to "Rejected" and if the applicant is no eligible for ental then all applicants are set to "Rejected". applicantion to allocate housing and the data is already selected Calculate end Date Taking data return false data---Showing the data-

#### Contracts

#### Login and Registration - Prepared by Bagus and Wahyudi

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

#### Set Up New Residence – Prepared by Bagus

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

#### View Residences – Prepared by Bagus

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

#### Submit Application – Prepared by Bagus

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

		choosing a	
		residence.	
register()	Use Case –	Applicant wants	Displays a list
	Submit	to submit an	of available
	Application	application for a	residences.
		unit.	

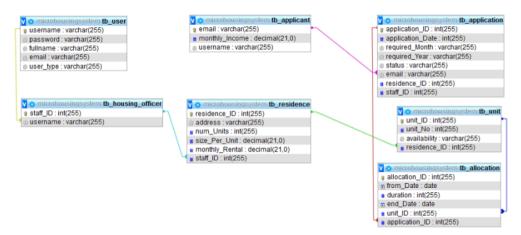
#### View Application – prepared by Wahyudi

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

#### Allocating Housing – prepared by Wahyudi

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

#### Database Design (Data Dictionary)



#### Identification of The Use Cases to be Developed by Member

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

#### **Test Objectives**

The objectives of this test are to check the website to run normally and it run according to the use case. We also check the website function to work properly and the user interface is easy to use.

#### Test Plan & Method & Automated Testing Tool

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

#### **Test Results**

#### • Unit and Integration Testing

We are using the Selenium program to test the code:

1. Registration

```
Clusmps|Nddc:|microhouingsystem/registration.php:\Notepad+-
file Eds Search Vew Frooding Linguage Settings Tools Macro Run Plugins Window ?

| Comparison | Compa
```

#### Selenium Test Result:

```
2. seft/indowSize on 697x728 OK
                                                                                                                                                                                                                                           07:45:10
 4. click on css=.login-right .form-group:nth-child(1) > .form-control OK
                                                                                                                                                                                                                                           07:45:11
 5. type on css=.login-right.form-group:nth-child(1) > .form-control with value Wahyu OK
                                                                                                                                                                                                                                           07:45:12
 6. click on css=.login-right .form-group:nth-child(2) > .form-control OK
 7. type on css=.login-right .form-group:nth-child(2) > .form-control with value 123 OK
8. click on name=full OK
                                                                                                                                                                                                                                           07:45:12

    type on name=full with value Wahyudi Bagus OK

                                                                                                                                                                                                                                           07:45:13
11. type on name=email with value wahyudibagus90@gmail.com OK
                                                                                                                                                                                                                                            07:45:13
12. click on css= form-group.nth-child(5) > input.nth-child(5) OK
13. click on css= btn.nth-child(6) OK
                                                                                                                                                                                                                                            07:45:14
```

#### 2. Login

#### Selenium Test Result:

```
        Log
        Reference

        Running Logiar
        07-42-11

        1. open on http://localhostmicrohousingsystem/login.php OK
        67-42-12

        2. setNindeu/Gize on 697-/228 OK
        87-42-12

        3. clock on name-user of W
        67-42-12

        4. type on name-user with value User1 OK
        67-42-13

        5. clock on name-password OK
        67-42-13

        6. type on name-password will value 12245 OK
        67-42-14

        7. clock on name-type OK
        87-42-14

        8. clock on close 1871-187-064 OK
        67-42-14

        1. clopit completed successfully
        67-42-14
```

#### 3. Logout

#### Selenium Test Result:

```
08:33:55
1. open on http://localhost/mic
                                                                                                                                                                                                                            08:33:56
2. setWindowSize on 697x728 OK
                                                                                                                                                                                                                            08:33:56
                                                                                                                                                                                                                            08:33:56
4. type on name=user with value User1 OK
                                                                                                                                                                                                                            08:33:57
6. type on name=password with value 123456 OK
                                                                                                                                                                                                                            08:33:58

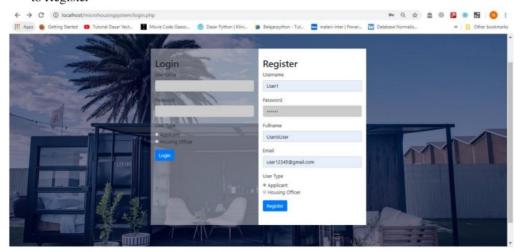
    click on css=.login-left .form-group.nth-child(3) OK

                                                                                                                                                                                                                            08:33:58
8. click on name=type OK
                                                                                                                                                                                                                            08:33:59
9. click on css=.btn:nth-child(4) OK
                                                                                                                                                                                                                            08:33:59
10. click on linkText=LOGOUT OK
                                                                                                                                                                                                                            08:33:59
                                                                                                                                                                                                                            08:34:00
```

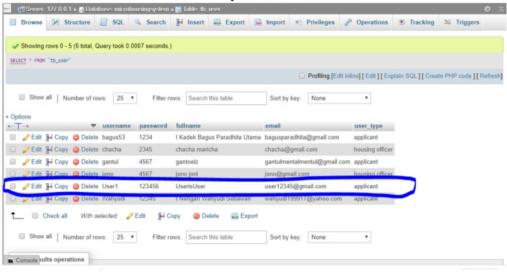
#### • System Testing

**Manual Testing** 

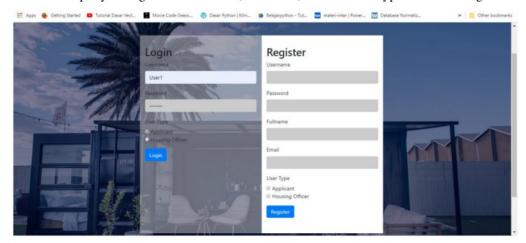
 Input Username, Password, Fullname, Email, and chose User Type then Click Register to Register



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

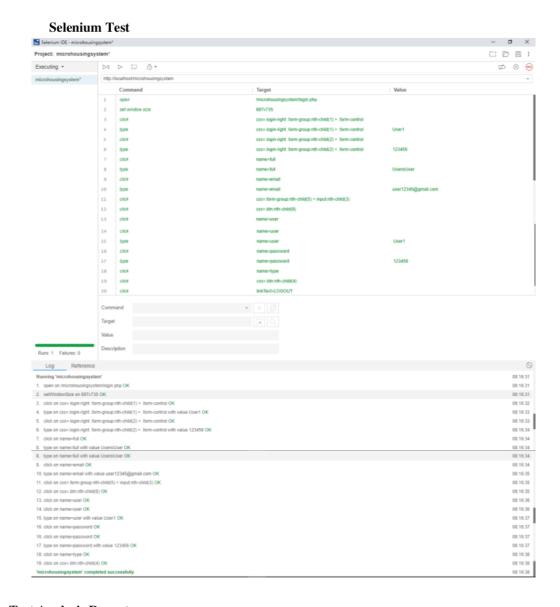


3. Next input your registered Username, Password, and the User Type then click Login



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



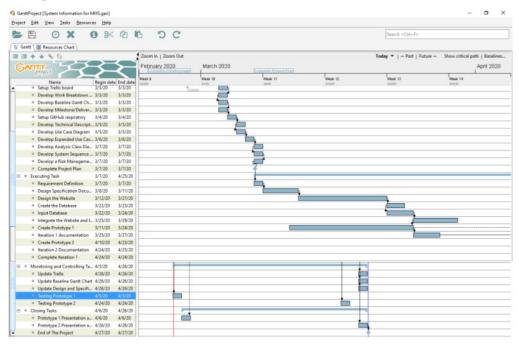


#### **Test Analysis Report**

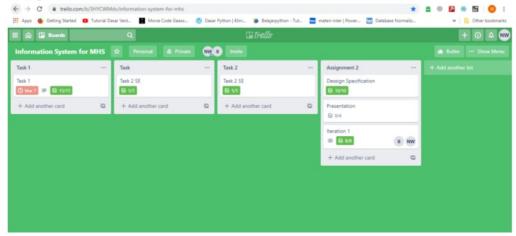
From the testing we can conclude that the program run according to Login and Registration use case because we only manage to make Login and Registration page, we will continue to make the website in Assignment 3. The website run normally without error and the user interface is simple and easy to use.

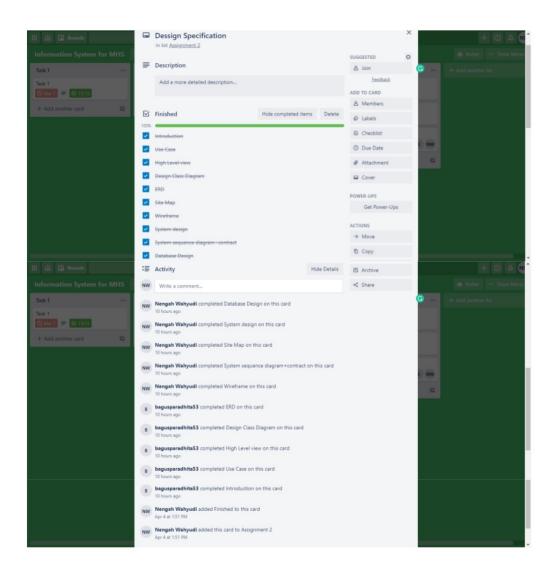
#### Update Gantt Chart/Trello Board

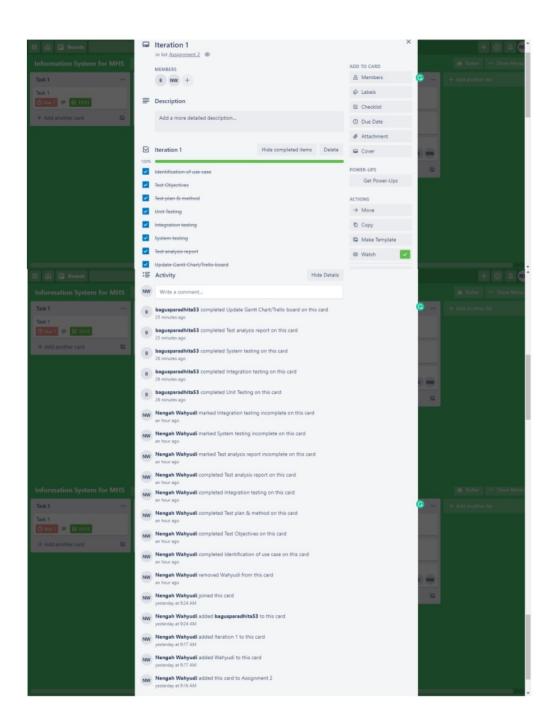
#### 1. Update Gantt Chart

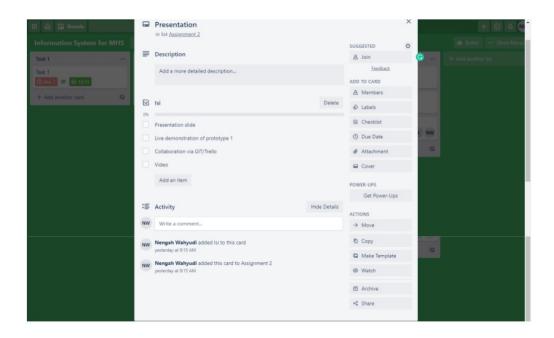


#### 2. Update Trello Board

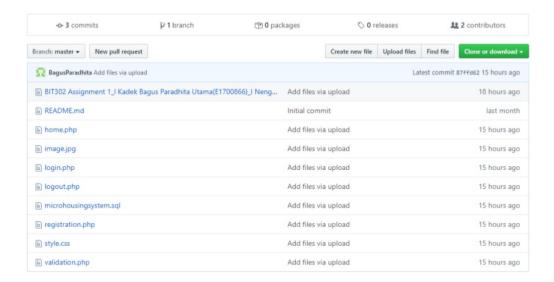








#### **GitHub**



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