



# USER GUIDE & TEST CASES

Test case scenarios for Rental Match System

## ABSTRACT

This document will demonstrate how to use the rental match system. It also documents the prerequisites needed to run the system locally on your machine. The test cases are also outlined in the final section of this document.

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# 1 User guide

## 1.1 Software/Tools Pre-requisites

### 1.1.1 Web Browsers

These browser versions will be needed to display the web application.

- Firefox 38
- IE 11
- Google Chrome 54

### 1.1.2 Tools/Kits

In order to run the application locally on any machine you will need the following tools/kits.

- Apache Maven
- Java JDK 1.8

Apache Maven download link: <https://maven.apache.org/download.cgi>

Java JDK 1.8 download link: <https://bit.ly/2NsJMMs>

Please follow the installation guide below to install maven and to ensure that JDK 1.8 is set to JAVA\_HOME variable in your system.

<https://maven.apache.org/install.html>

## 1.2 Deploying the application locally

Open up your command prompt/terminal and go into the ‘Rental-Match-Service’ project folder. Please ensure section 1.1.2 has been fulfilled before proceeding or you will end with build failures.

> rental-match > rental-match-service				
	Name	Date modified	Type	Size
	.settings	01/03/2019 23:41	File folder	
	src	01/03/2019 23:40	File folder	
	target	06/03/2019 20:41	File folder	
	.classpath	01/03/2019 23:41	CLASSPATH File	2 KB
	.project	01/03/2019 23:41	PROJECT File	1 KB
	launch.bat	01/03/2019 15:40	Windows Batch File	2 KB
	launch.sh	01/03/2019 15:40	Shell Script	2 KB
9 oct	launch-dev.bat	01/03/2019 15:40	Windows Batch File	1 KB
	launch-dev.sh	01/03/2019 15:40	Shell Script	2 KB
	pom.xml	06/03/2019 19:37	XML Document	10 KB
	readme.md	01/03/2019 15:40	MD File	1 KB
	rental-match-service.xml	06/03/2019 20:41	XML Document	2 KB

Enter the following in your command prompt/terminal:

Windows: *launch.bat clean install*

Linux/Unix: *./launch.sh clean install*

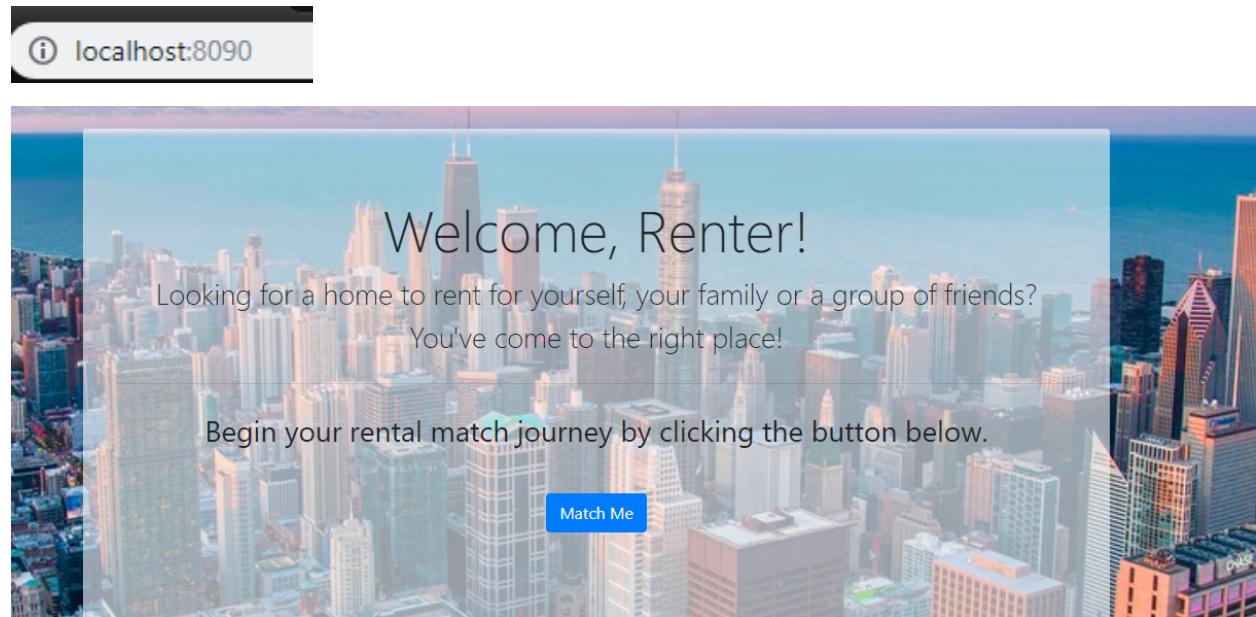
The projects will take a long time to build for the first time as it will be downloading dependencies to your machine.

If you encounter this error, run the launch command one more time.

```
[INFO] [        ] "Launching the application locally..."  
[INFO] [        ] Error: Unable to access jarfile target\
```

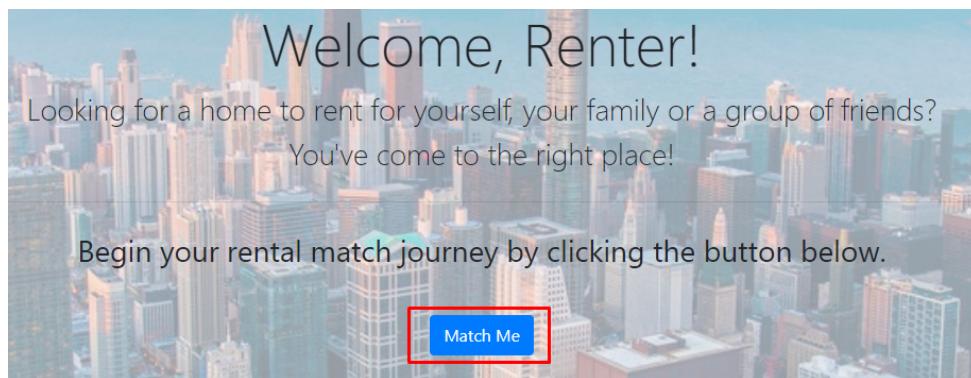
Once the app has finished building and deployed, open up your web browser and enter *localhost:8090*. If the build was successful and the app was deployed successfully, you will be able to view the application in your web browser.

```
2019-03-06 20:41:34.434 INFO 15652 --- [           main] oConfiguration$WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]  
2019-03-06 20:41:34.910 INFO 15652 --- [           main] org.apache.cxf.endpoint.ServerImpl   : Setting the server's publish address to be /  
2019-03-06 20:41:35.259 INFO 15652 --- [           main] o.s.j.e.a.AnnotationMBeanExporter    : Registering beans for JMX exposure on startup  
2019-03-06 20:41:35.316 INFO 15652 --- [           main] s.b.c.e.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8090 (http)  
2019-03-06 20:41:35.344 INFO 15652 --- [           main] com.gameofthrones.service.Application : Started Application in 17.831 seconds (JVM running for 18.402)
```

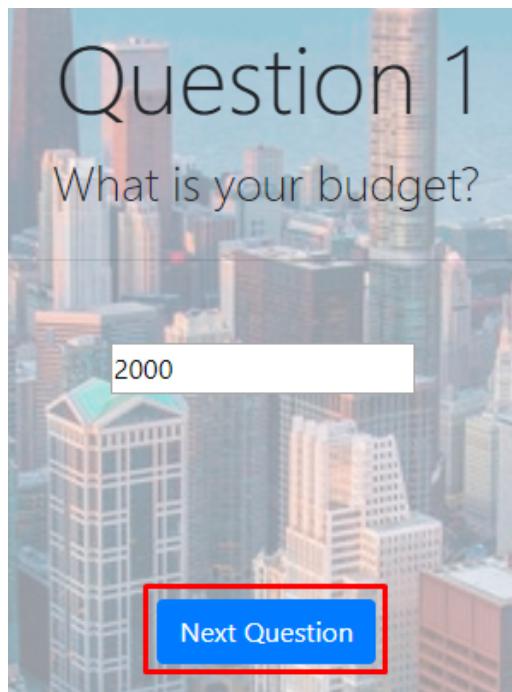


### 1.3 Using the system

Upon accessing localhost:8090 you can click the 'Match Me' button to begin answering a list of questions.



Enter a suitable answer for each question and click 'Next Question'.



After the final question, your results will be displayed. You may click ‘Match Again’ to restart the process.

Here are your results!

ID	Street	No. of rooms	Price	Furnished	Lease Type	Mrt	Bus Stop	Food Court	Child Care	Gym
2	Yishun Ring Road	5	700.0	Y	Single	Y	Y	Y	Y	N
18	Yishun Central	5	500.0	Y	Single	Y	Y	Y	N	N

[Match Again](#)

## 2 Test Cases

In this section, we will take a look at some test cases of our system and an analysis of the output will be given.

### 2.1 Test Case 1

This test case follows the path of a student that is studying at Nanyang Polytechnic and is looking for a place to rent.

<b>Input</b>	<b>Q1: What is your budget?</b> Input: 700 <b>Q2: What is your purpose of stay?</b> Input: Study <b>Q3: What is the location of your place of study/work/leisure?</b> Input: 569830 <b>Q4: Will you be renting with family?</b> Input: No <b>Q5: Do you cook frequently?</b> Input: No <b>Q6: Will you be driving in Singapore?</b> Input: No <b>Q7: Do you exercise frequently?</b> Input: No
<b>Output</b>	Address: Yishun Central Price: 500 Furnished: Y Lease Type: Single room Mrt & Bustop: Y Food Court: Y
<b>Analysis</b>	<p>Based on the results, the system has recommended this listing for our NYP student as it is within the budget and located in the north zone which is close to where the student is studying.</p> <p>As the user is a student, he would need a home that is furnished and ready to move in. At the same time, given that he is renting alone, a listing that is only leasing single rooms is taken into consideration.</p> <p>As the user does not cook much the listing will need a foodcourt nearby.</p>
<b>Screenshot of results</b>	(See Below)

Here are your results!

ID	Street	No. of rooms	Price	Furnished	Lease Type	Mrt	Bus Stop	Food Court	Child Care	Gym
18	Yishun Central	5	500.0	Y	Single	Y	Y	Y	N	N

## 2.2 Test Case 2

This test case follows the path of a white collar employee who is moving in with his family (wife and 2 children) and working at Apple.

<b>Input</b>	<b>Q1: What is your budget?</b> Input: 3000 <b>Q2: What is your purpose of stay?</b> Input: Work <b>Q3: What is the location of your place of study/work/leisure?</b> Input: 569086 <b>Q4: Will you be renting with family?</b> Input: Yes <b>Q4a: How many children?</b> Input: 2 <b>Q4b: How many adults?</b> Input: 2 <b>Q4c: Is your spouse working?</b> Input: No <b>Q5: Do you cook frequently</b> Input: Yes <b>Q6: Will you be driving in Singapore?</b> Input: No <b>Q7: Do you exercise frequently?</b> Input: No
<b>Output</b>	Address: Canberra Street Price: 2500 Furnished: Y Lease Type: Whole Mrt & Bustop: Y Child Care: N Address: Sembawang Close Price: 2700 Furnished: Y Lease Type: Whole Mrt & Bustop: Y Child Care: N
<b>Analysis</b>	Based on the results, the system has recommended these 2 listings to our user with a wife and 2 children. The rental listing has to be for the whole apartment and not just single rooms. As the user is not driving, it has to be near bus stops and mrt. It does not need to have child care as the spouse is a stay at home mom.
<b>Screenshot of results</b>	(See Below)

Here are your results!

ID	Street	No. of rooms	Price	Furnished	Lease Type	Mrt	Bus Stop	Food Court	Child Care	Gym
23	Canberra Street	5	2500.0	Y	Whole	Y	Y	Y	N	N
24	Sembawang Close	5	2700.0	Y	Whole	Y	Y	Y	N	N