

# LITHAN

## Plan, Schedule, Test Community Portal

### Module Project

**Module:** NICF Capstone Project using Java

**Course:** NICF Advanced Certificate in Software & Applications (Development & Deployment)

**Start Date** : 16 Jun 2022

**End Date** : 14 Jul 2022

**Submission Date** : 14 Jul 2022

**Learner Name** : WeeChong, Teo

**Enrollment ID** :

**Presentation Date** : 15 Jul 2022

# Document History

**LITHAN**

Version Number	Effective Date of release	Summary of Included Changes	Author
1	4 <sup>th</sup> March 2016	First Edition	Satya CVS
2	23 <sup>rd</sup> Jul 2018	Changed for Module 6	Shrinivas K R

# Contents

LITHAN

S. No.	Description
01	Different Types of Testing
02	How Different Testing Helps
03	Tests Selected
04	Test Schedule
05	Test Results
06	Testing Tools
07	Project Milestone & Tasks
08	Milestone Feedback & Action Taken
09	Modifications Made Based on Feedback
10	Project Results
11	Proposed Improvements

# 1. Different Types of Testing

Functional Testing	Non-functional Testing
It verifies the operations and actions of an application.	It verifies the behavior of an application.
It is based on requirements of customer.	It is based on expectations of customer.
It helps to enhance the behavior of the application.	It helps to improve the performance of the application.
Functional testing is easy to execute manually.	It is hard to execute non-functional testing manually.
It tests what the product does.	It describes how the product does.
Functional testing is based on the business requirement.	Non-functional testing is based on the performance requirement.

# 1. Different Types of Testing

Functional Testing Types	Non-functional Testing Types
Unit testing	Performance Testing
Integration testing	Load testing
System testing	Stress testing
Sanity testing	Volume testing
Smoke testing	Security testing
Interface testing	Compatibility testing
Regression testing	Install testing
Beta/Acceptance testing	Recovery testing
	Reliability testing
	Usability testing
	Compliance testing
	Localization testing

## 2. How Different Test Helps

### ☐ Unit Testing

- ☐ Perform during development to check individual unit works properly
- ☐ Find problem early in development lifecycle so reduce later cost of testing

### ☐ Integration Testing

- ☐ Test the connectivity or data transfer between unit tested modules
- ☐ Verify the functional and non-functional behaviors of the interfaces are as designed and specified
- ☐ To find defects which may be in the interaction or within the components or systems

### ☐ User Acceptance Testing

- ☐ Last phase of testing to validate the end-to-end business flow meeting the functional requirements
- ☐ All critical defects must be fixed before signed off can be done
- ☐ Ensure final product is ready for release

## 2. How Different Test Helps

### ☐ Stress Testing

- ☐ This a non-functional test to test the stability & reliability of the system in order to determines the system robustness and error handling in heavy load conditions.
- ☐ Objective is to avoids system crash during extreme situations in the production environment.

### ☐ Load Testing

- ☐ Non-functional test to determine a systems performance under real-life load conditions.
- ☐ It will provide application behavior when multiple users access it concurrently with the infrastructure resources.

### ☐ Compatibility Testing

- ☐ Compatibility testing is to check whether the software is capable of running on different device, platform, operating systems etc.
- ☐ To ensure good user experience

# 3. Tests Selected

## Unit Testing

- JUnit5 to perform the test in Eclipse IDE
- To check individual unit works properly
- Find problem early in development lifecycle

The screenshot shows the Eclipse IDE with the `LoginServiceTest.java` file open. The JUnit 5 test runner is visible in the top right, showing a successful run with 4/4 tests passed. The test results are displayed in the bottom left, showing the execution time for each test method. The code in the editor includes annotations like `@Autowired`, `@Test`, and `@AssertTrue`.

```
22 @WebAppConfiguration
23 class LoginServiceTest {
24
25     @Autowired
26     LoginService loginService;
27
28     @Autowired
29     private WebApplicationContext context;
30
31     @Test
32     void testValidUserName() {
33         User loginUser = loginService.findByUserName("john@gmail.com");
34         assertTrue(loginUser instanceof User);
35     }
36
37     @Test
38     void testInvalidUserName() {
39         User loginUser = loginService.findByUserName("notFound@gmail.com");
40         assertNull(loginUser);
41     }
42
43     @Test
44     void testInvalidUser() {
45         User testUser = new User();
46         testUser.setUserName("john@gmail.com");
47         testUser.setPassword("1");
48         Optional<User> loginUser = loginService.isValidUser(testUser);
49         assertFalse(loginUser.isPresent());
50     }
51
52     @Test
53     void testValidUser() {
54         User testUser = new User();
55         testUser.setUserName("john@gmail.com");
56         testUser.setPassword("1");
57         Optional<User> loginUser = loginService.isValidUser(testUser);
58         assertTrue(loginUser.isPresent());
59     }
60 }
61
62
```

The screenshot shows the Eclipse IDE with the `UserServiceTest.java` file open. The JUnit 5 test runner is visible in the top right, showing a successful run with 1/1 tests passed. The test results are displayed in the bottom left, showing the execution time for each test method. The code in the editor includes annotations like `@Autowired`, `@Test`, and `@AssertNotNull`.

```
1 package com.weechong_teo.wdf.service;
2
3 import static org.junit.jupiter.api.Assertions.*;
4
5 @ExtendWith(SpringExtension.class)
6 @ContextConfiguration(classes={WebMvcConfig.class, JpaConfig.class, SecurityConfig.class})
7 @WebAppConfiguration
8 class UserServiceTest {
9
10     @Autowired
11     UserService userService;
12
13     @Autowired
14     private WebApplicationContext context;
15
16     @Test
17     void testSaveProfile() {
18         UserProfile userProfile = new UserProfile();
19         userProfile.setProfileId((long) 130);
20         userProfile.setFirstName("First");
21         userProfile.setLastName("Last");
22         userProfile.setDateOfBirth("1999-09-09");
23         userProfile.setGender("Female");
24         userProfile.setCity("Tokyo");
25         userProfile.setCountry("Japan");
26         assertNotNull(userService.saveUserProfile(userProfile));
27     }
28 }
29
```



# 3. Tests Selected

## ❑ Integration Testing

- ❑ Verify the functional behaviors of the interfaces
- ❑ Check database are updated accordingly
- ❑ Check email is send out

Registration

Email address  
ken@gmail.com

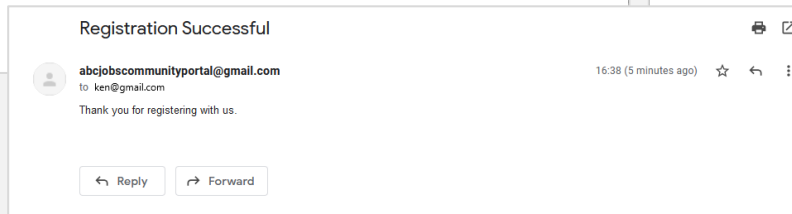
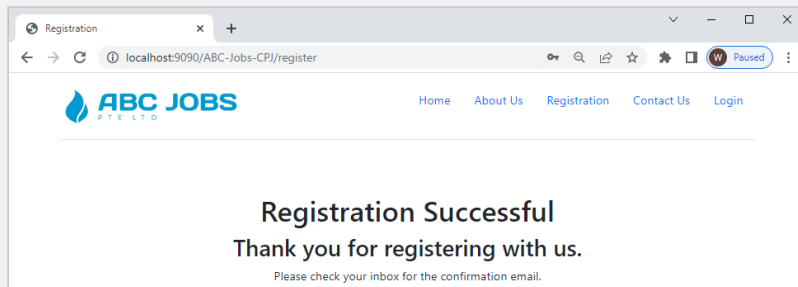
Password  
\*\*\*\*

Confirm Password  
\*\*\*\*

By clicking the submit button below, I hereby agree to and accept the terms and conditions.

**Submit**

[Already have an account? Login here.](#)



MySQL Workbench

Local instance MySQL80

Query 1

```
SELECT * FROM cpj_0122a.user
```

userId	email	password	emailConfirmed	status	createdDate	reset	userProfileId
163	a@w.com	1	0	0	2022-06-09 14:04:58		124
176	ken@gmail.com	1234	0	0	2022-06-27 08:38:26		138
177	monica@gmail.com	1234	0	0	2022-06-27 08:48:53		139

Table: user

Columns:

- userId: int(11) PK
- email: varchar(256)
- password: varchar(256)
- emailConfirmed: char(1)
- status: char(1)
- createdDate: datetime
- reset: varchar(256)
- userProfileId: int

Action Output

Time	Action	Message	Duration / Fetch
2 09:04:27	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
3 09:04:40	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	2 row(s) returned	0.078 sec / 0.000 sec
4 09:09:14	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
5 09:09:33	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

### 3. Tests Selected

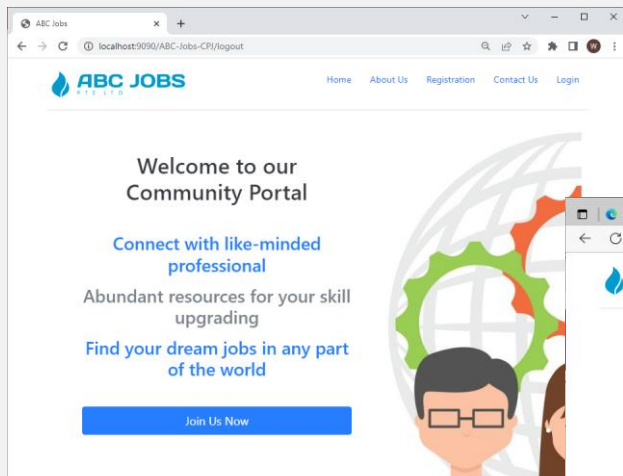
- ☐ Usability Testing

- ☐ To understand the overall user experience and to identify friction points that prevent users from completing tasks
- ☐ TOT – time on task
- ☐ UER – user error rate %
- ☐ TSR – task success rate
- ☐ NPS – net promoter score
- ☐ CSAT – customer satisfaction

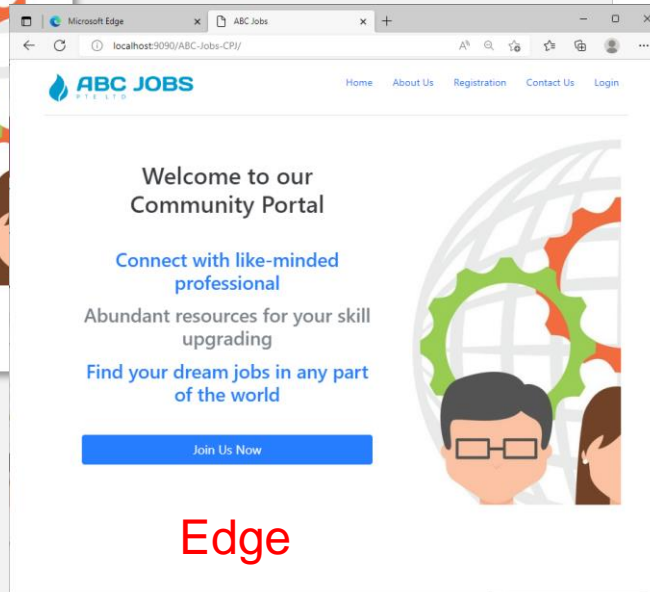
### 3. Tests Selected

#### ☐ Cross Browser Testing

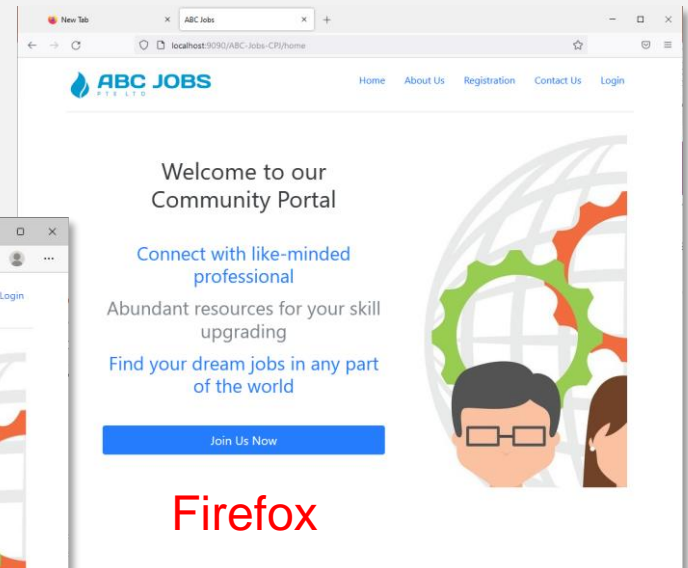
- ☐ To test on different browsers, operating systems, mobile devices to see look and feel and performance.
- ☐ The goal of is to give a good user experience regardless of those devices used



Chrome



Edge



Firefox

## 4. Test Schedule

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Test Schedule			
Test Schedule ID	ACWD-CPJ-0122A		
Product ID/Name	ABC Jobs Pte Ltd – Community Portal		
Product Version	0.1		
Present Owner	Wee Chong, Teo		
Created On	16 June 2022		
Review On	28 June 2022		
Review By	Lithan		
Review Comments	NA		
Current Version	0.1		
Change Details	NA		
Current Status	Approved		
Signing Off Authority	Project manager's name	Project Manager	28 June 2022

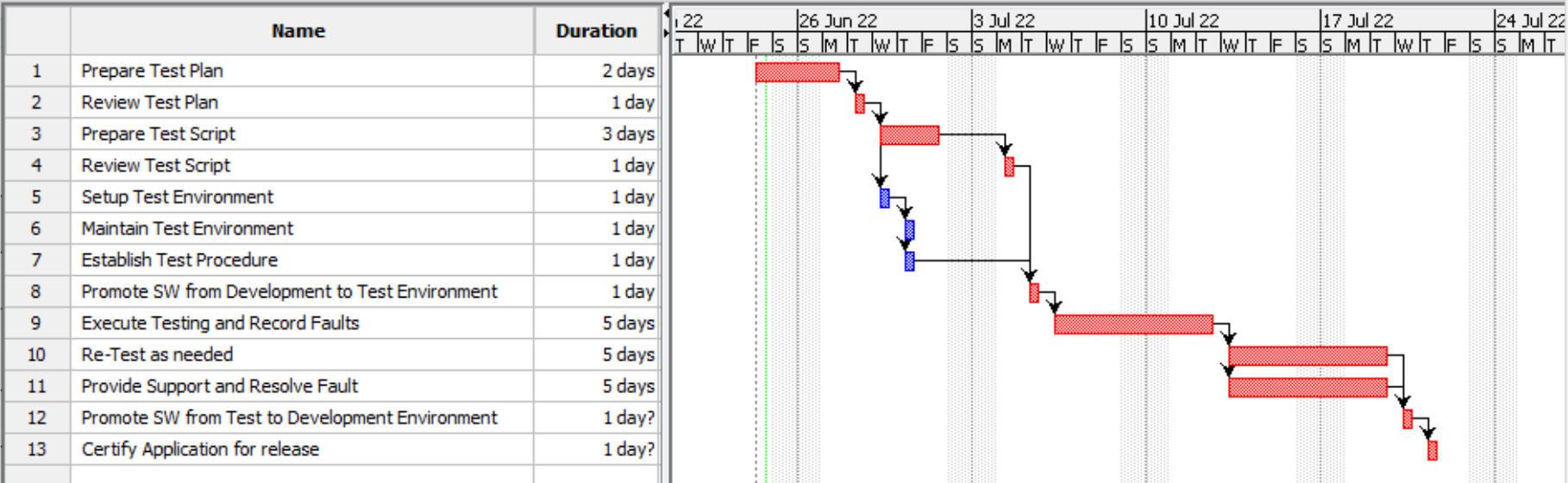
# 4. Test Schedule

	Complexity	Weightage	Functional Points	Total (Weightage*Functional Points)
Registration	M	3	6	18
Login	S	1	3	3
Forget Password	S	1	4	4
Forget Password Change Password	S	1	2	2
Update Profile	M	3	8	24
Search Users	S	1	2	2
Public Profile	S	1	1	1
Send Message	S	1	2	2
Read Message	S	1	1	1
List Message Board (Thread)	S	1	1	1
Post A Thread	M	3	2	6
Read A Thread	S	1	1	1
Post A Job	S	1	1	1
Apply A Job	M	3	2	6
List Job Opportunities and Responses	M	3	1	3
		Total Functional Points		75
		Hour/Functional Point		0.5
		Total Hours		37.5
		Number of Hours/day		8
		Number of Days		4.6875

## 4. Test Schedule

S/N	Task	Resource	Estimate Effort (man-days)
1	Prepare Test Plan	Test Manager	2
2	Review Test Plan	Project Manager, Test Manager, Testers	1
3	Prepare Test Scripts	Testers	3
4	Review Test Scripts	Test Manager, Testers	1
5	Setup Test Environment	Developer, QA Team	1
6	Maintain Test Environment	QA Team	1
7	Establish Test Procedure	Testers, Developer, QA Team	1
8	Promote Software from Development to Test Environment	Developer, QA Team	1
9	Execute Testing and Record Faults	Testers	5
10	Re-execute Tests as needed	Testers	5
11	Provide Support and Resolve Faults	Developer, QA Team	5
12	Promote Software from Test to Development Environment	Developer, QA Team	1
13	Certify Application for release	QA Team	1
	Total		28

# 4. Test Schedule



# 5. Test Results

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Use Case ID	Function
UC0001	Registration
UC0002	Login
UC0003	Forget Password
UC0004	Update Profile
UC0005	Search
UC0006	Search Result
UC0007	Show Public Profile

Use Case ID	Scenario ID	Test Scenario
UC0001	TS0001	Valid new email
	TS0002	Register with existing email
UC0002	TS0003	Valid email and password
	TS0004	Invalid email and/or password
UC0003	TS0005	Valid existing email
	TS0006	Non-existing email
UC0004	TS0007	Update user information
	TS0008	Upload user picture
	TS0009	Add user education
	TS0010	Add user experience
	TS0011	Add user skill
UC0005	TS0012	Search for existing user
	TS0013	Search for non-existing user
UC0006	TS0014	Search produce a list of users
UC0007	TS0015	Show Public Profile page



# 5. Test Results

Scenario ID	Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
TS0001	1	1. Community Portal installed 2. New user	1. Goto Registration page 2. Enter email 3. Enter password 4. Enter confirm password	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234 Confirm Password = 1234	Should go to the registration confirmation page.	As expected.	Pass
TS0002	2	1. Community Portal installed 2. Existing user	1. Goto Registration page 2. Enter email 3. Enter password 4. Enter confirm password	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234 Confirm Password = 1234	Should reject registration due to existing email	As expected.	Pass
TS0003	1	1. Community Portal installed 2. Existing user	1. Goto Login page 2. Enter email 3. Enter password	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234	Should go to the main page after successful login.	As expected.	Pass
TS0004	2	1. Community Portal installed 2. Non-existing user	1. Goto Login page 2. Enter email 3. Enter password	Email = <a href="mailto:gen@gmail.com">gen@gmail.com</a> Password = 1234	Should reject login due to non-existing email and return to login page.	As expected.	Pass
TS0005	1	1. Community Portal installed 2. Existing user	1. Goto Login page 2. Click on Reset Password link 3. Enter email	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a>	Should go to the reset confirmation page.	As expected.	Pass

# 5. Test Results

Scenario ID	Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
TS0006	2	1. Community Portal installed  2. Non-existing user	1. Goto Login page  2. Click on Reset Password link  3. Enter email	Email = <a href="mailto:gen@gmail.com">gen@gmail.com</a>	Should reject reset request due to non-existing email.	As expected.	Pass
TS0007	1	1. Community Portal installed  2. Existing user	1. Goto Profile page after login  2. Click Pencil icon in User Information section  3. Enter user information and submit	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a>  Password = 1234  First Name = Ken  Last Name = Goh  Gender = Male  Date of birth = 01-01-1999  City = Singapore  Country = Singapore	Should go to the profile page to show the updated information.	As expected.	Pass
TS0008		1. Community Portal installed  2. Existing user	1. Goto Profile page after login  2. Click User icon in the left panel  3. Select the picture to upload and submit	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a>  Password = 1234  File = ken.jpg	Should go to the profile page to show the updated information.	Did not show the profile page as expected.  An error page of HTTP Status 500 – Internal Server Error is shown.	Fail

# 5. Test Results

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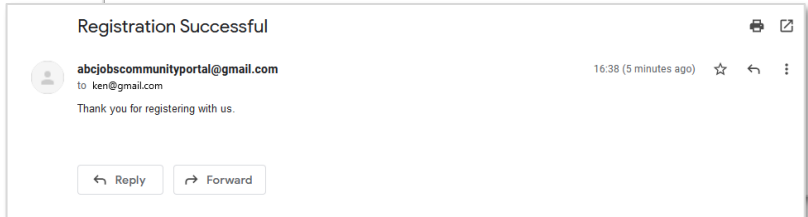
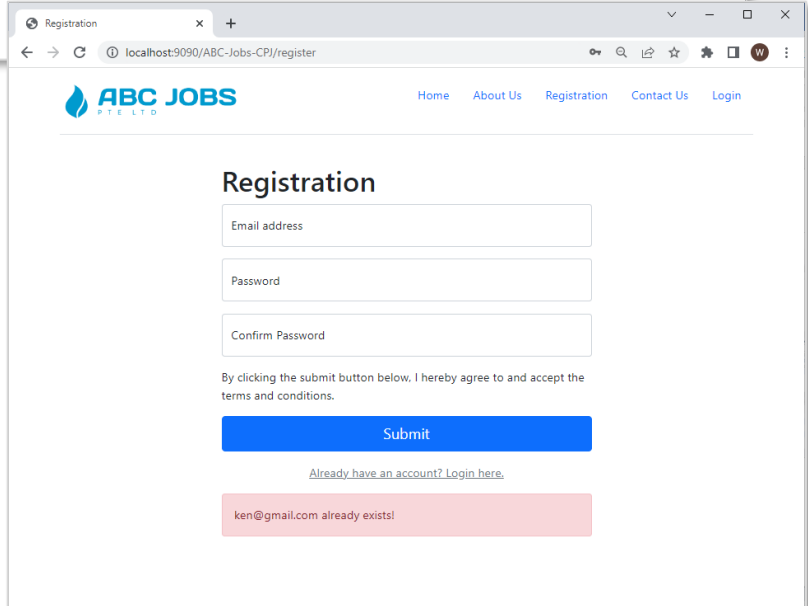
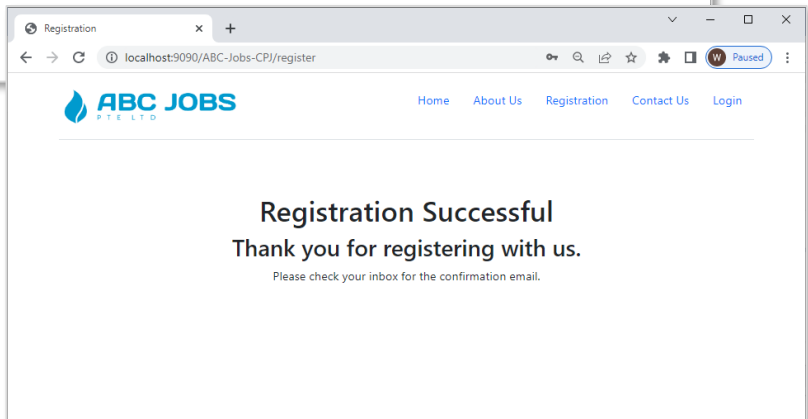
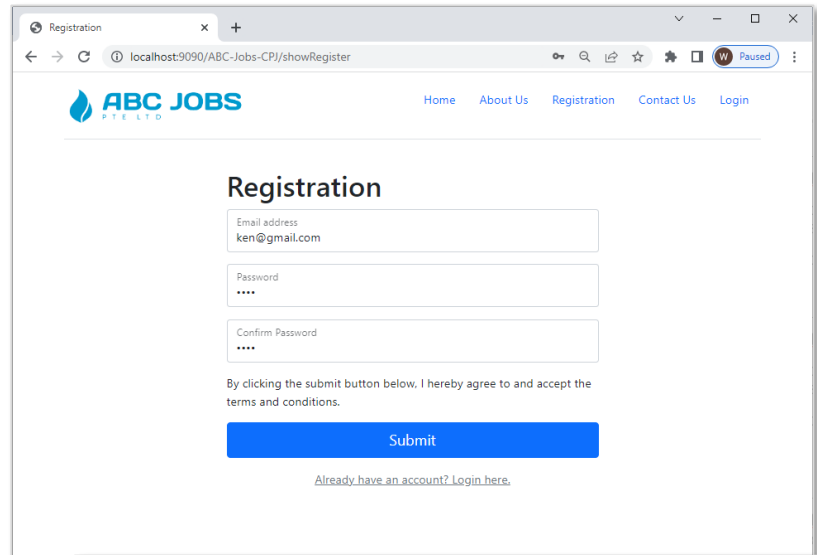
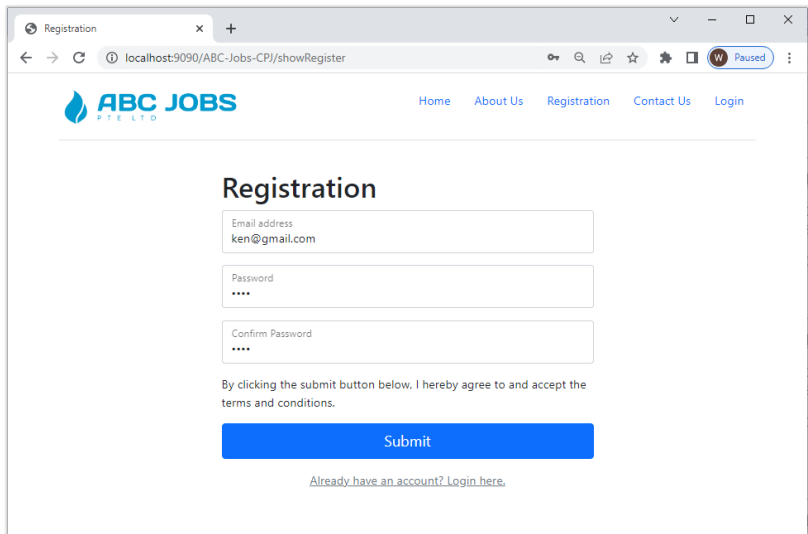
Scenario ID	Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
TS0009		1. Community Portal installed	1. Goto Profile page after login	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234 Year = 2020 Description = Master of Science Institute = NTU	Should go to the profile page to show the updated information.	As expected.	Pass
		2. Existing user	2. Click Plus icon in Education section				
			3. Enter the education information				
TS0010		1. Community Portal installed	1. Goto Profile page after login	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234 Duration = 2020-Present Position = Full Stack Developer Company = Google	Should go to the profile page to show the updated information.	As expected.	Pass
		2. Existing user	2. Click Plus icon in Experience section				
			3. Enter the experience information				
TS0011		1. Community Portal installed	1. Goto Profile page after login	Email = <a href="mailto:ken@gmail.com">ken@gmail.com</a> Password = 1234 Year = 2020 Description = Google Cloud Certified Institute = Google	Should go to the profile page to show the updated information.	As expected.	Pass
		2. Existing user	2. Click Plus icon in Skill section				
			3. Enter the skill information				
TS0012	1	1. A user Monica exists	1. Goto Search page by clicking on the Search link	Login email/password = <a href="mailto:ken@gmail.com">ken@gmail.com</a> /1234 Search text = monica	A record with name Monica should display in a list.	As expected.	Pass
		2. Login successful with an existing user	2. Enter the search text				

# 5. Test Results

Scenario ID	Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
TS0013	2	1. A user Mary does not exist	1. Goto Search page by clicking on the Search link	Login email/password = <a href="mailto:ken@gmail.com">ken@gmail.com</a> /1234	Should display "Nothing found" message.	As expected.	Pass
		2. Login successful with an existing user	2. Enter the search text	Search text = mary			
TS0014	1	1. 3 users located in Singapore exists	1. Goto Search page by clicking on the Search link	Login email/password = <a href="mailto:ken@gmail.com">ken@gmail.com</a> /1234	A list of users located in Singapore should be displayed in a list.	As expected.	Pass
		2. Login successful with an existing user	2. Enter the search text	Search text = singapore			
TS0015	1	1. Login successful with an existing user	1. Click on the name	Login email/password = <a href="mailto:ken@gmail.com">ken@gmail.com</a> /1234	Should display the Public Profile Page with the selected user information.	As expected.	Pass
		2. Search result with a user		Search text = john			

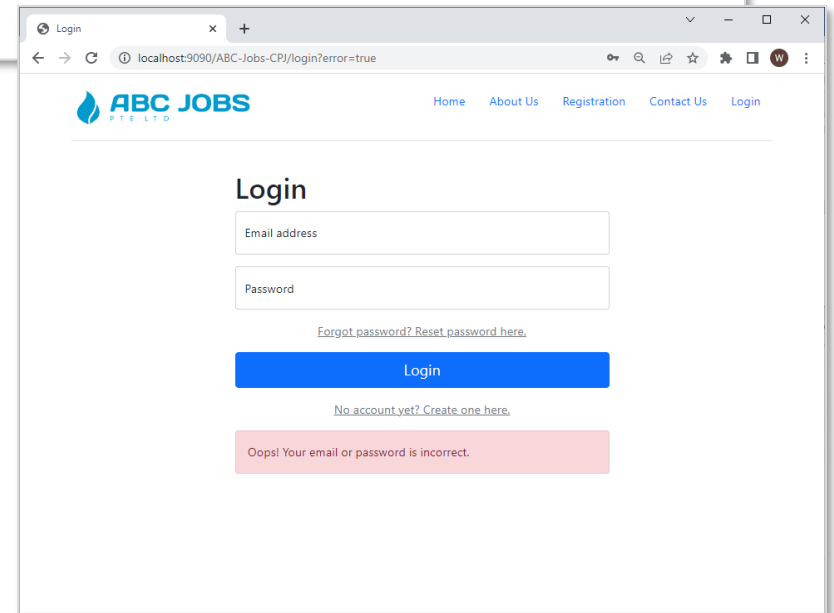
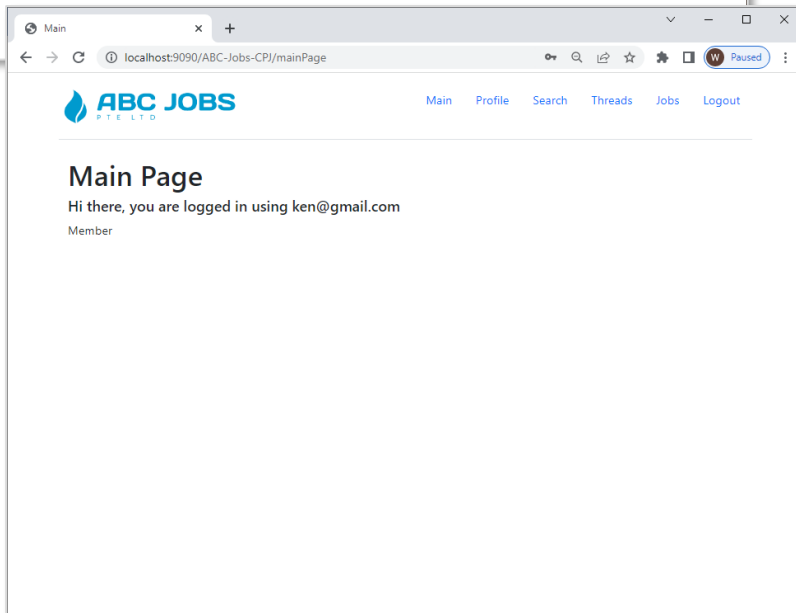
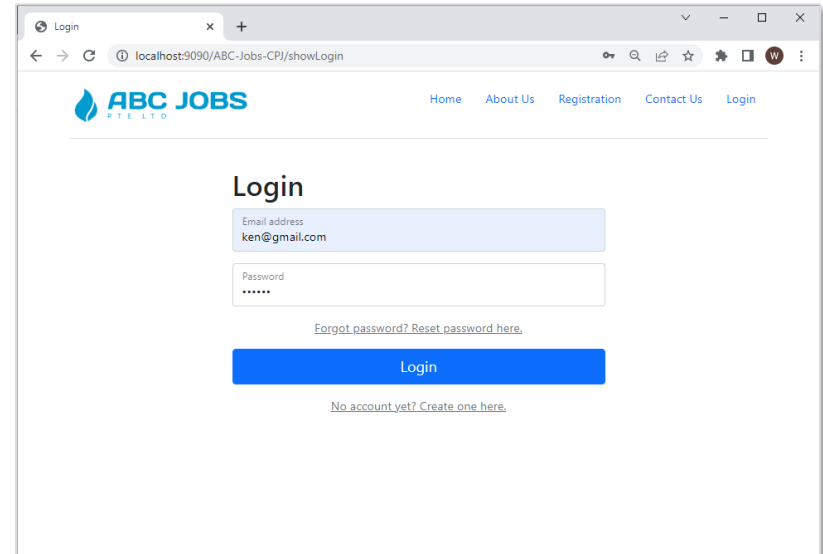
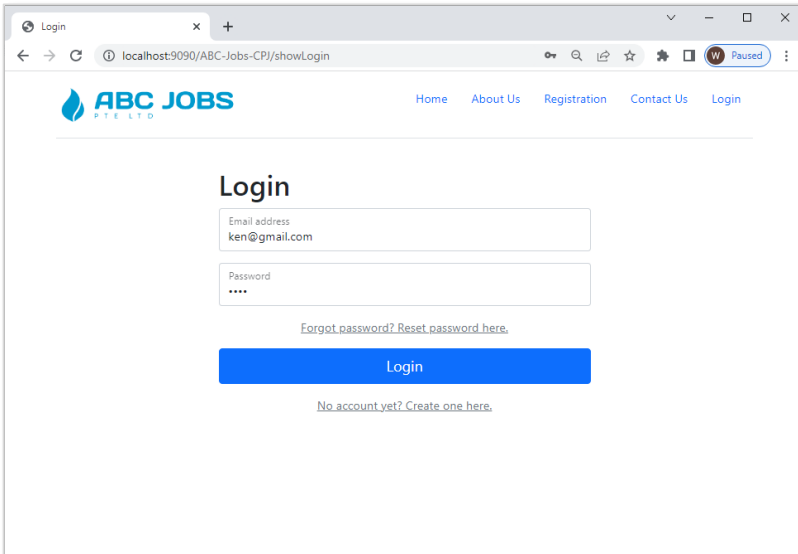
# 5. Test Results

LITHAN



# 5. Test Results

LITHAN



# 5. Test Results

LITHAN

Login

localhost:9090/ABC-Jobs-CPJ/resetPassword

Paused

ABC JOBS

Home About Us Registration Contact Us Login

Reset Password

Please input your email to receive the reset link.

Email address

ken@gmail.com

Submit

Reset Password

localhost:9090/ABC-Jobs-CPJ/resetPassword

Paused

ABC JOBS

Home About Us Registration Contact Us Login

Reset Password

We have emailed you the link to reset your password.

Please follow the instruction in the email.

Reset Password

abcjobscommunityportal@gmail.com

16:54 (1 minute ago)

☆ ↶ ⋮

to ken@gmail.com

<http://localhost:9090/ABC-Jobs-CPJ/newPassword?reset=1656320143242>

↶ Reply

↷ Forward

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigation

Query 1

thread

user

userprofile

skill

education

experience

SCHEMAS

Filter objects

cpj\_0122a

Tables

education

experience

job

jobapplication

message

role

skill

thread

user

userprofile

Views

Stored Procedures

Functions

Administration

Schemas

Information

1 • SELECT \* FROM cpj\_0122a.user

Result Grid

Filter Rows

Export/Import

Wrap Cell Contents

userId	email	password	emailConfirmed	status	createdDate	reset	userProfileId
163	a@w.com	1	0	0	2022-06-09 14:04:58		124
176	ken@gmail.com	1234	0	0	2022-06-27 08:38:26	1656378985524	138
177	monica@gmail.com	1234	0	0	2022-06-27 08:48:53		139

Table: user

Columns:

userId int AI PK

email varchar(256)

password varchar(256)

emailConfirmed char(1)

status char(1)

createdDate datetime

reset varchar(256)

userProfileId int

user 3

Apply

Revert

Output

Action Output

Time

Action

Message

Duration / Fetch

3	09:04:40	SELECT * FROM cpj_0122a.experience LIMIT 0, 1000	2 row(s) returned	0.078 sec / 0.000 sec
4	09:09:14	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
5	09:09:33	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
6	09:15:32	SELECT * FROM cpj_0122a.user LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

Query Completed

# 5. Test Results

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New Password

New Password

Confirm Password

Submit

Reset Password

Please input your email to receive the reset link.

Email address  
nonexisting@email.com

Submit

Reset Password

Password Changed

Your new password is effective now.

Please login with the new password.

[Goto Login page](#)

Reset Password

Please input your email to receive the reset link.

Email address

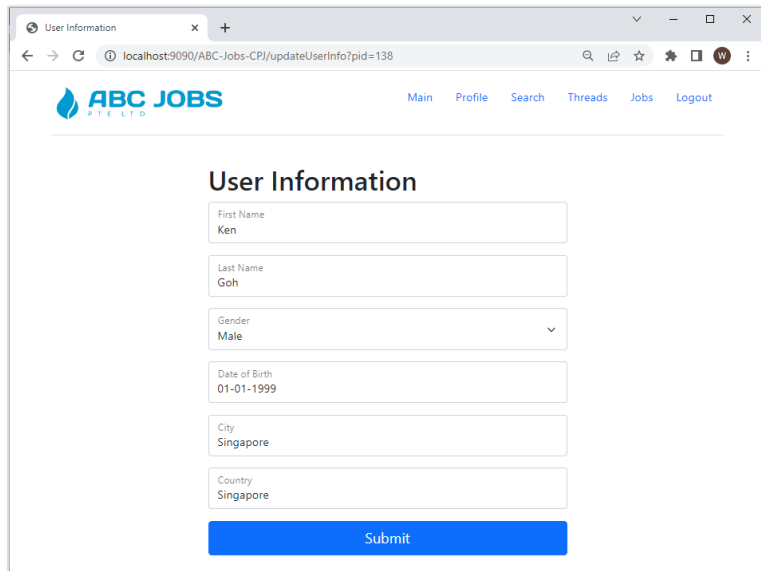
Submit

nonexisting@email.com not found.



# 5. Test Results

LITHAN



ABC JOBS PTE LTD

Main Profile Search Threads Jobs Logout

### User Information

First Name  
Ken

Last Name  
Goh

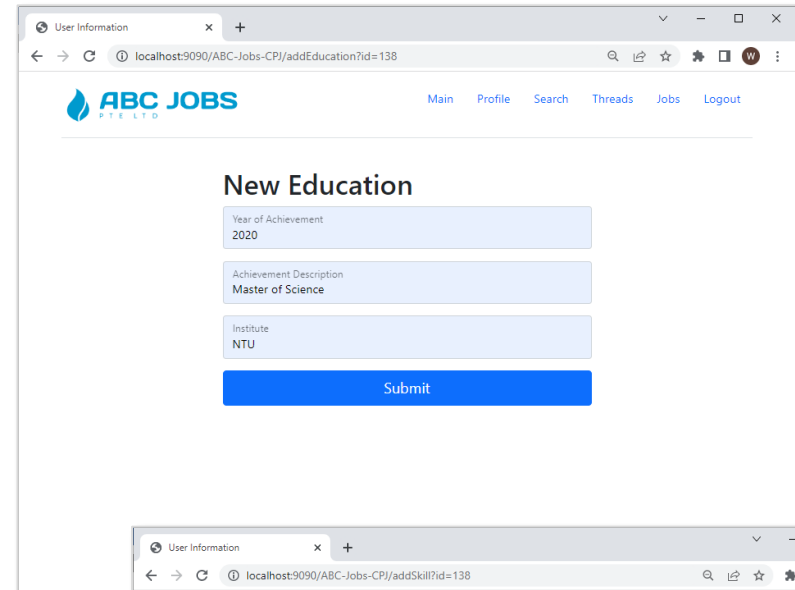
Gender  
Male

Date of Birth  
01-01-1999

City  
Singapore

Country  
Singapore

Submit



ABC JOBS PTE LTD

Main Profile Search Threads Jobs Logout

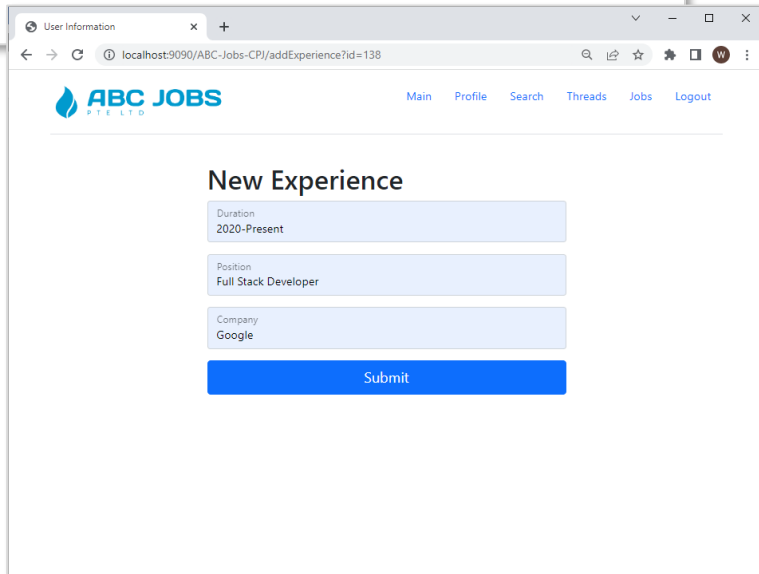
### New Education

Year of Achievement  
2020

Achievement Description  
Master of Science

Institute  
NTU

Submit



ABC JOBS PTE LTD

Main Profile Search Threads Jobs Logout

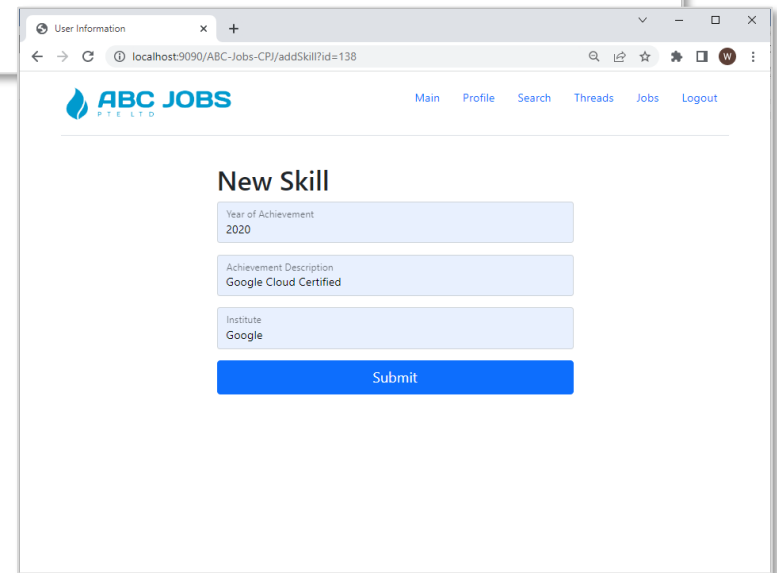
### New Experience

Duration  
2020-Present

Position  
Full Stack Developer

Company  
Google

Submit



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Main Profile Search Threads Jobs Logout

### New Skill

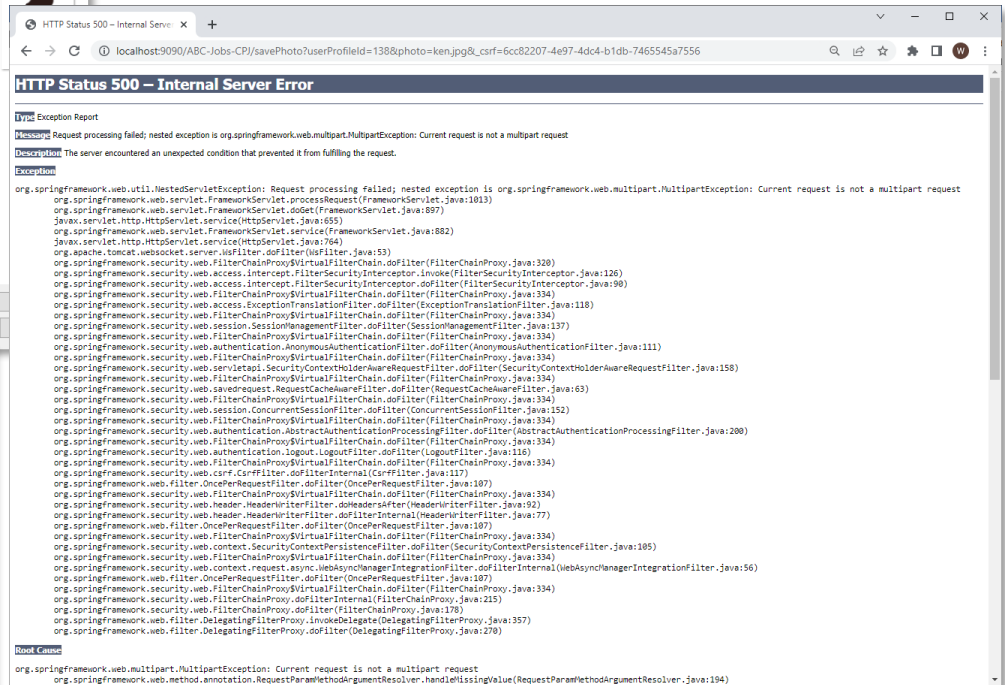
Year of Achievement  
2020

Achievement Description  
Google Cloud Certified

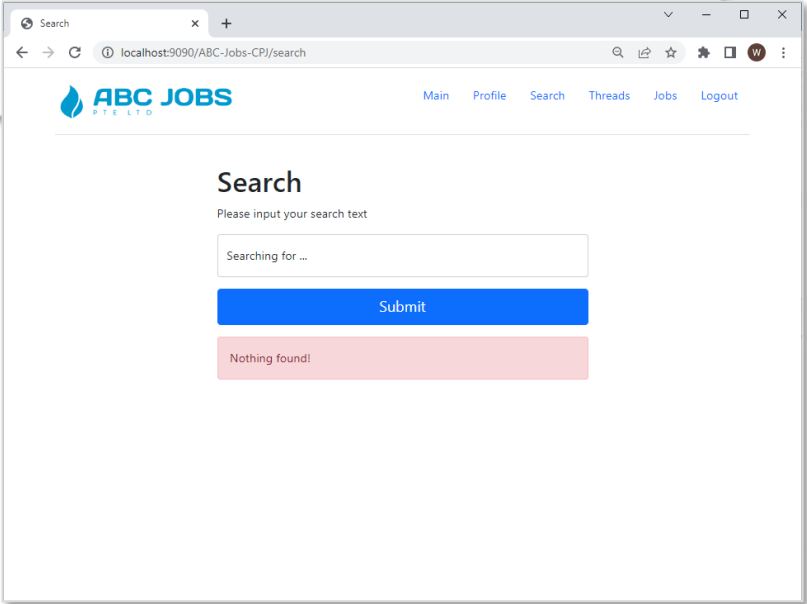
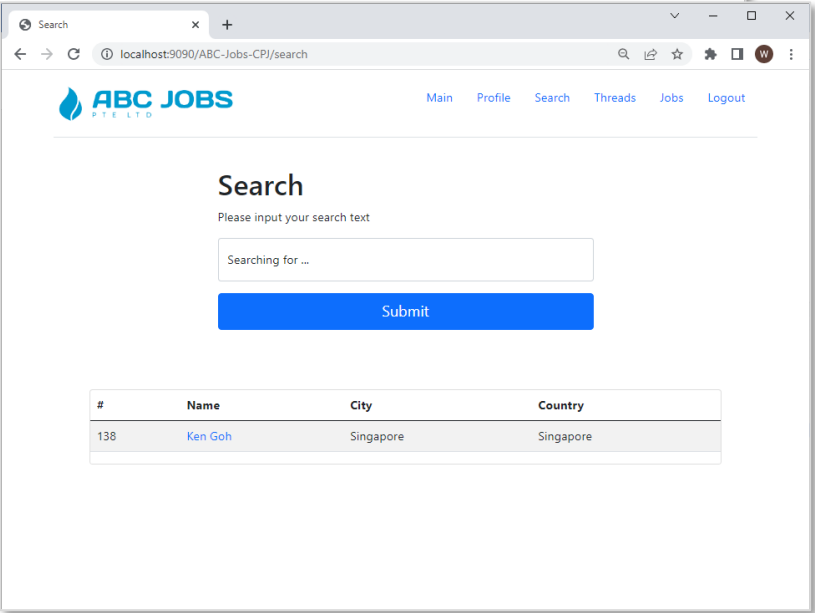
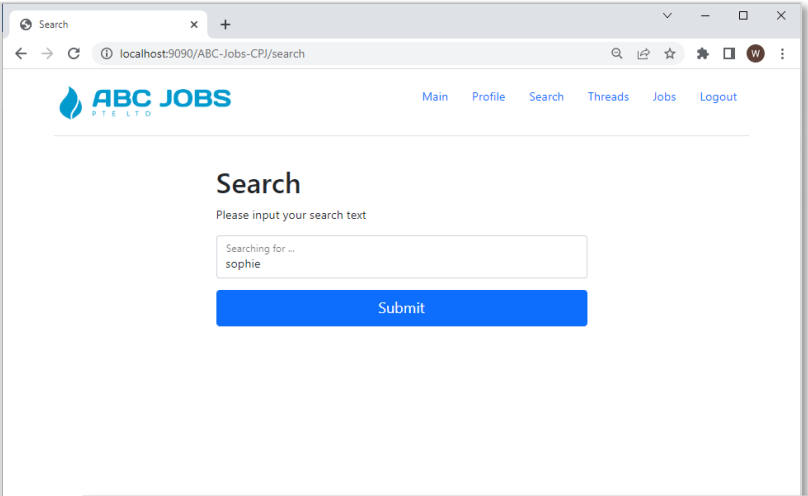
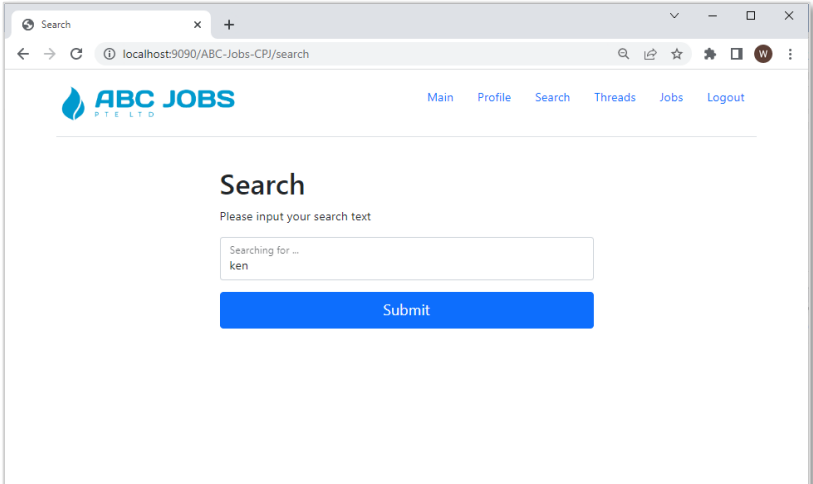
Institute  
Google

Submit

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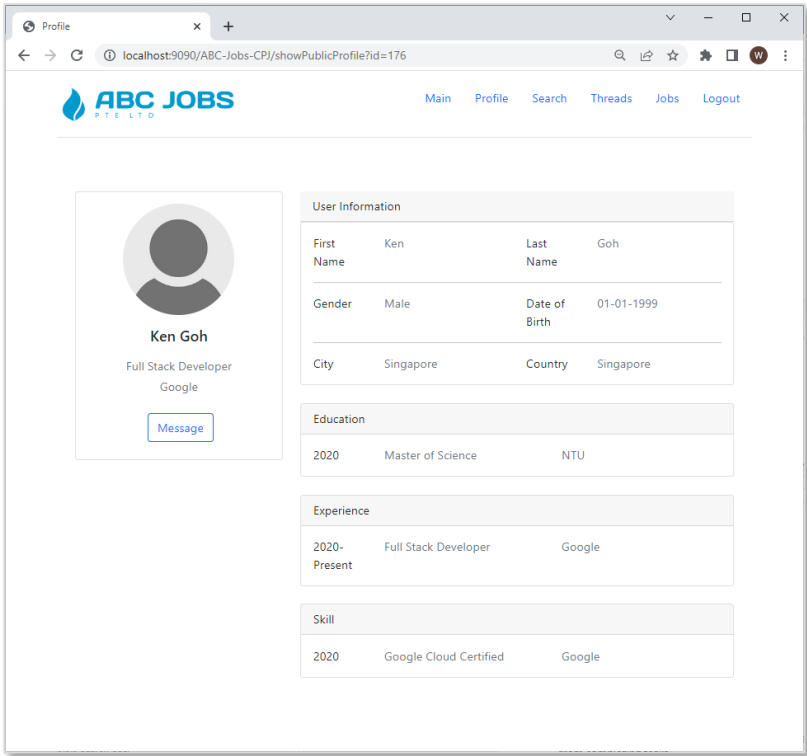
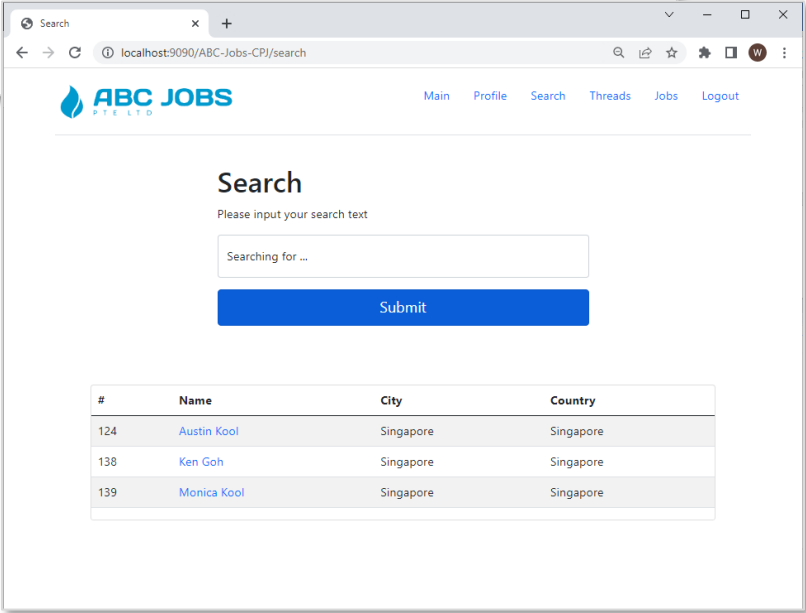
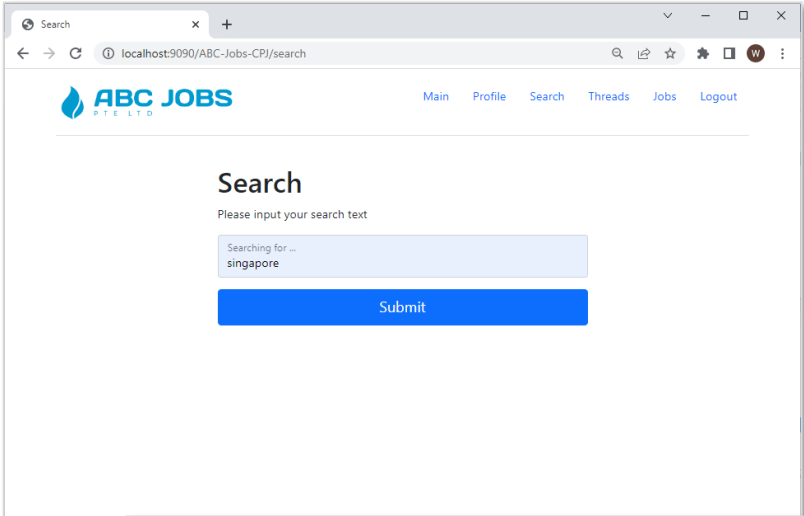


# 5. Test Results



# 5. Test Results

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# 5. Test Results

## Usability Test – TOT, UER, TSR

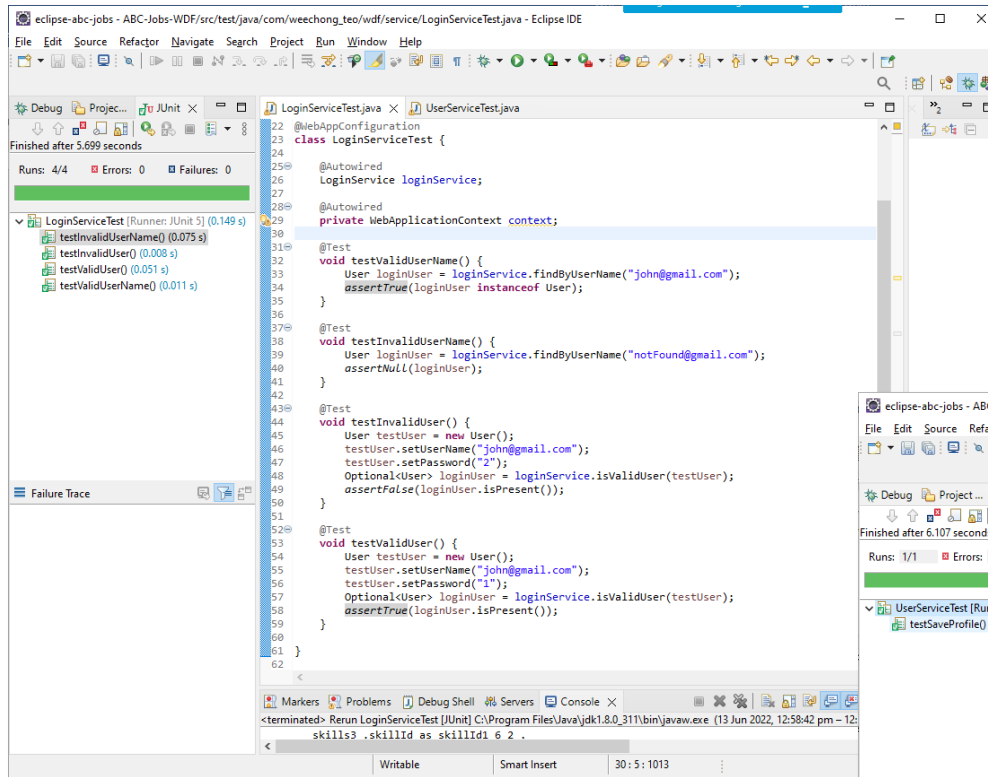
Participant Name	TOT (seconds)	UER (#errors)	TSR (Success/Fail)	Observation	Feedback
WeiZhong, Ng	35	0	Success	Completed task without issue	Very little input information required
Ramya	25	0	Success	Completed task without issue	Simple entry
Muthukumari	65	1	Success	User has error at confirmed password	Undecisive on which email address to use
Siti Nafisah	36	0	Success	Completed task without issue	Quick and easy to register
Khairul	50	1	Success	User has come issue with the confirmed password	Minimum input of data
	TOT	UER	TSR		
Average Score	42.2	40%	100%		

# 5. Test Results

## Usability Test – CSAT, NPS

Participant Name	Satisfaction Score	Promoting Score
WeiZhong, Ng	3	7
Ramya	5	8
Muthukumari	5	9
Siti Nafisah	5	10
Khairul	5	8
	CSAT	NPS
	80%	40%

# 6. Testing Tools



The screenshot shows the Eclipse IDE with the file `LoginServiceTest.java` open. The code includes a `@WebAppConfiguration` annotation and a `class LoginServiceTest` with several JUnit tests. The console output shows the test results for `LoginServiceTest` (JUnit 5) with a duration of 0.149 seconds. The tests include `testInvalidUserName()`, `testValidUser()`, and `testValidUserName()`. The console also shows the failure trace for the `testValidUser()` test, which failed due to an `AssertionError` at line 58.

```
@WebAppConfiguration
class LoginServiceTest {

    @Autowired
    LoginService loginService;

    @Autowired
    private WebApplicationContext context;

    @Test
    void testValidUserName() {
        User loginUser = loginService.findByName("john@gmail.com");
        assertTrue(loginUser instanceof User);
    }

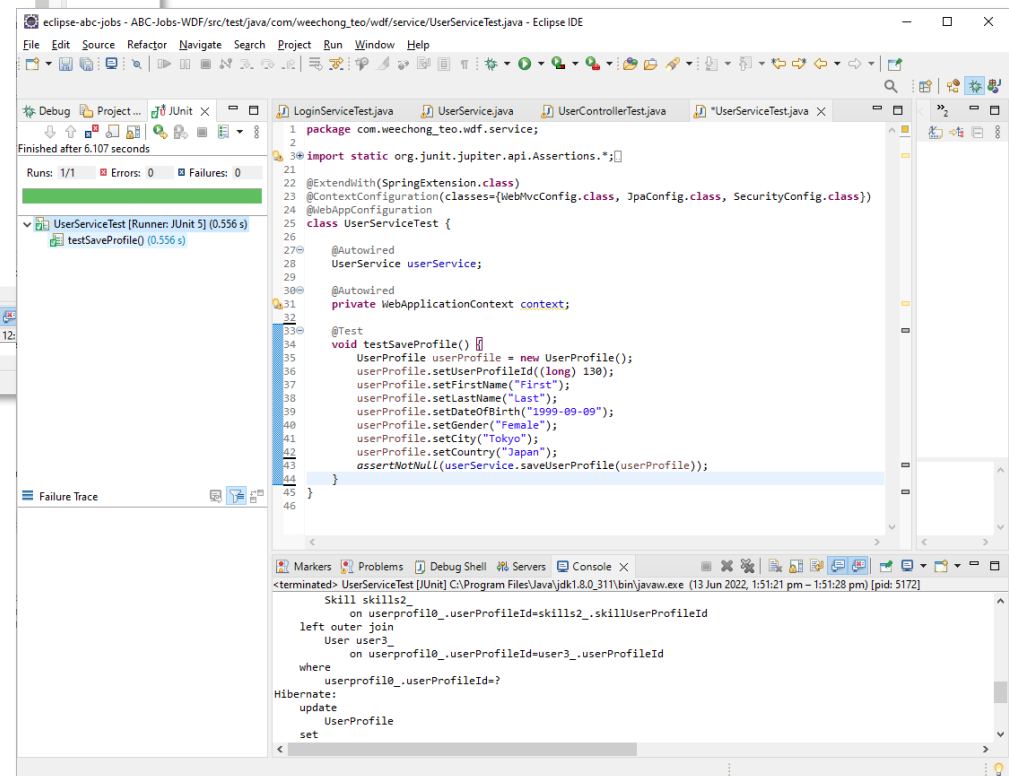
    @Test
    void testInvalidUserName() {
        User loginUser = loginService.findByName("notFound@gmail.com");
        assertNull(loginUser);
    }

    @Test
    void testInvalidUser() {
        User testUser = new User();
        testUser.setUsername("john@gmail.com");
        testUser.setPassword("123");
        Optional<User> loginUser = loginService.isValidUser(testUser);
        assertFalse(loginUser.isPresent());
    }

    @Test
    void testValidUser() {
        User testUser = new User();
        testUser.setUsername("john@gmail.com");
        testUser.setPassword("123");
        Optional<User> loginUser = loginService.isValidUser(testUser);
        assertTrue(loginUser.isPresent());
    }
}
```

Failure Trace

```
<terminated> Run LoginServiceTest [JUnit] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (13 Jun 2022, 12:58:42 pm - 12:58:43 pm)
    .skillid as skillid1 6 2 .
```



The screenshot shows the Eclipse IDE with the file `UserServiceTest.java` open. The code includes a `@WebAppConfiguration` annotation and a `class UserServiceTest` with JUnit tests. The console output shows the test results for `UserServiceTest` (JUnit 5) with a duration of 0.556 seconds. The tests include `testSaveProfile()`. The console also shows the failure trace for the `testSaveProfile()` test, which failed due to an `AssertionError` at line 42.

```
package com.weechong_teo.wdf.service;

import static org.junit.jupiter.api.Assertions.*;

@ExtendWith(SpringExtension.class)
@ContextConfiguration(classes={WebMvcConfig.class, JpaConfig.class, SecurityConfig.class})
@WebAppConfiguration
class UserServiceTest {

    @Autowired
    UserService userService;

    @Autowired
    private WebApplicationContext context;

    @Test
    void testSaveProfile() {
        UserProfile userProfile = new UserProfile();
        userProfile.setUserProfileId((long) 130);
        userProfile.setFirstName("First");
        userProfile.setLastName("Last");
        userProfile.setDateOfBirth("1999-09-09");
        userProfile.setGender("Female");
        userProfile.setCity("Tokyo");
        userProfile.setCountry("Japan");
        assertNotNull(userService.saveUserProfile(userProfile));
    }
}
```

Failure Trace

```
<terminated> UserServiceTest [JUnit] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (13 Jun 2022, 1:51:21 pm - 1:51:28 pm) [pid: 5172]
Skill skill2
on userProfile0_userProfileId=skill2_skillUserProfileId
left outer join
User user3
on userProfile0_userProfileId=user3_userProfileId
where
userProfile0_userProfileId=?
Hibernate:
update
UserProfile
set
```

## 7. Project Milestones & Tasks

**LITHAN**

Project Task ID	Project Task Description	Project Milestone ID
1	Analyze and suggest choice of Test Methods	1
2	Schedule the Test Optimally	1
3	Develop the Phase Test Plan	1
5	Develop Test Cases & Scripts	2
6	Execute the Tests & Document the results	3



# 8. Milestone Feedback & Action taken



Project Milestone ID	Milestone Feedback received from Tutor / Learning Facilitator	Action Taken (Yes / No)
1	To include test schedule cover page	Yes
2		
3		

## 9. Modifications Made based On Feedback

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- ☐ Test schedule updated with a cover page

# 10. Project Results

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The screenshot displays a development environment with three main windows:

- File Explorer:** Shows the project structure for 'ABC-Jobs-CPI'. The 'src' directory is selected, showing subdirectories like 'main', 'test', 'resources', and 'META-INF', along with files like 'pom.xml' and '.classpath'.
- Eclipse IDE:** Displays the source code for 'UserProfileController.java'. The code includes methods for finding users by email and showing user profiles, with annotations for RESTful web services.
- MySQL Workbench:** Shows the results of a SQL query. The query is 'SELECT \* FROM cpj\_0122a.userprofile;'. The results table lists user details including ID, gender, date of birth, city, country, first name, last name, photo, and email.

**Table: userprofile**

userProfileId	gender	dateOfBirth	city	country	firstName	lastName	photo	email
124	Female	12-12-2000	Singapore	Singapore	Austin	Kool	user.jpg	a@w.com
138	Male	01-01-1999	Singapore	Singapore	Ken	Goh	user.jpg	ken@gmail.com
139	Female	01-01-1979	Singapore	Singapore	Monica	Kool	user.jpg	monica@gmail.com

**Action Output:**

#	Time	Action	Message	Duration / Fetch
11	10:20:38	SELECT * FROM cpj_0122a.skill LIMIT 0, 1000	2 row(s) returned	0.094 sec / 0.000 sec
12	10:20:43	SELECT * FROM cpj_0122a.education LIMIT 0, 1000	3 row(s) returned	0.032 sec / 0.000 sec
13	10:20:47	SELECT * FROM cpj_0122a.experience LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
14	10:20:50	SELECT * FROM cpj_0122a.thread LIMIT 0, 1000	0 row(s) returned	0.141 sec / 0.000 sec

# 11. Proposed Improvements

## ☐ List of Improvements

- ☐ An alert notification feature can be added to the system. This notification module can notify user the following events.
  - ☐ A new message has been received
  - ☐ A new thread has been posted
  - ☐ A new job posting has been placed
  - ☐ A new status to the user's job application

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## Main Page

Hi there, you are logged in using ken@email.com