

# **Online Library Management System**

## **Unit Testing Report**

By

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**Unit:**

- LoginPage.rb
- Loginpage.html
- Loginpage.css

**Source Files:** unit\_test.feature

**Date:** 11/02/2023

**Engineers:** Anupriya Palanisamy

**Feature:** Unit test the book store app

```
@unit_test @test_case_1
```

```
Scenario: Register account
```

```
Given I open homepage
```

```
When I click on sign up link
```

```
And I fill the user details
```

```
And I set the "8" length long password for the account
```

```
And I click on "sign up button" on signup page
```

```
Then I land on the "User Profile" page
```

```
And I click on "logout" button on home page
```

**Test Methodology: Behavior-Driven Development (BDD)**

**Test Cases for the Given Scenario:**

**1. Given I open homepage**

- Test that the homepage is successfully loaded.

**2. When I click on sign up link**

- Test that the sign-up link is clickable.
- Test that clicking on the sign-up link navigates the user to the sign-up page.

**3. And I fill the user details**

- Test that the user details form is present and fillable.
- Test that filling the user details correctly does not trigger any errors.

**4. And I set the "8" length long password for the account**

- Test that the password input field accepts a password of exactly 8 characters.

- Test that setting a password of less than 8 characters triggers an error.

**5. And I click on "sign\_up\_button" on signup page**

- Test that the sign-up button is clickable.
- Test that clicking the sign-up button processes the form submission.

**6. Then I land on the "User Profile" page**

- Test that after successful sign-up, the user is redirected to the user profile page.
- Test that the user profile page displays the correct user information.

**7. And I click on "logout" button on home page**

- Test that the logout button is clickable.
- Test that clicking the logout button logs the user out and redirects them to the homepage.

**Unit:**

- LoginPage.rb
- Loginpage.html
- Loginpage.css

**Source Files:** unit\_test.feature

**Date:** 11/02/2023

**Engineers:** Anupriya Palanisamy

```
@unit_test @test_case_2
Scenario: Login into an existing customer
  Given I open homepage
  When I click on "sign_in" button on home page
  And I fill the user details for "existing" customer
  And I click on "sign_in" button on sign page
  Then I land on the "User Profile" page
  And I click on "logout" button on home page
```

**Test Methodology: Behavior-Driven Development (BDD)**

**Test Cases for the Given Scenario:**

1. **Given I open homepage**
  - Test that the homepage is successfully loaded.
2. **When I click on "sign\_in" button on home page**
  - Test that the sign-in button is clickable.
  - Test that clicking the sign-in button navigates the user to the sign-in page.
3. **And I fill the user details for "existing" customer**
  - Test that the user details form on the sign-in page is present and fillable.
  - Test that filling the correct user details for an existing customer does not trigger any errors.
4. **And I click on "sign\_in" button on sign page**
  - Test that the sign-in button on the sign-in page is clickable.
  - Test that clicking the sign-in button processes the form submission.

**5. Then I land on the "User Profile" page**

- Test that after successful sign-in, the user is redirected to the user profile page.
- Test that the user profile page displays the correct user information for the logged-in customer.

**6. And I click on "logout" button on home page**

- Test that the logout button is clickable.
- Test that clicking the logout button logs the user out and redirects them to the homepage.

**Unit:**

- SignupPage.rb
- Signuppagement.html
- Signuppagement.css

**Source Files:** unit\_test.feature

**Date:** 11/02/2023

**Engineers:** Anupriya Palanisamy

```
@unit_test @test_case_3
Scenario: Login as an non existing customer
  Given I open homepage
  When I click on "sign_in" button on home page
  And I fill the user details for "non-existing" customer
  And I click on "sign_in" button on sign page
  Then I should see the error message "Username does not exist, please create a new account" for "wrong-username"
```

**Test Methodology: Behavior-Driven Development (BDD)**

**Test Cases for the Given Scenario:**

- 1. Given I open homepage**
  - Test that the homepage is successfully loaded.
- 2. When I click on "sign\_in" button on home page**
  - Test that the sign-in button is clickable.
  - Test that clicking the sign-in button navigates the user to the sign-in page.
- 3. And I fill the user details for "non-existing" customer**
  - Test that the user details form on the sign-in page is present and fillable.
  - Test that filling incorrect user details for a non-existing customer does not trigger any errors (e.g., incorrect username or password).
- 4. And I click on "sign\_in" button on sign page**
  - Test that the sign-in button on the sign-in page is clickable.
  - Test that clicking the sign-in button processes the form submission.
- 5. Then I should see the error message "Username does not exist, please create a new account" for "wrong-username"**
  - Test that the correct error message is displayed when a non-existing username is entered during sign-in.
  - Test that the error message appears prominently and clearly on the sign-in page.

**Unit:**

- SignupPage.rb
- Signuppagement.html
- Signuppagement.css

**Source Files:** unit\_test.feature

**Date:** 11/02/2023

**Engineers:** Anupriya Palanisamy

```
@unit_test @test_case_4
Scenario: Login as an existing customer with incorrect password
  Given I open homepage
  When I click on "sign_in" button on home page
  And I fill the user details for "wrong-password" customer
  And I click on "sign_in" button on sign page
  Then I should see the error message "Password did not match, please re-try" for "wrong-password"
```

**Test Methodology: Behavior-Driven Development (BDD)**

**Test Cases for the Given Scenario:**

1. **Given I open homepage**
  - Test that the homepage is successfully loaded.
2. **When I click on "sign\_in" button on home page**
  - Test that the sign-in button is clickable.
  - Test that clicking the sign-in button navigates the user to the sign-in page.
3. **And I fill the user details for "wrong-password" customer**
  - Test that the user details form on the sign-in page is present and fillable.
  - Test that filling incorrect password for an existing customer does not trigger any errors (e.g., incorrect password for the correct username).
4. **And I click on "sign\_in" button on sign page**
  - Test that the sign-in button on the sign-in page is clickable.
  - Test that clicking the sign-in button processes the form submission.
5. **Then I should see the error message "Password did not match, please re-try" for "wrong-password"**
  - Test that the correct error message is displayed when an existing customer enters an incorrect password during sign-in.
  - Test that the error message appears prominently and clearly on the sign-in page.

**Unit:**

- HomePage.rb
- Homepage.html
- Homepage.css

**Source Files:** unit\_test.feature

**Date:** 11/02/2023

**Engineers:** Anupriya Palanisamy

```
@unit_test @test_case_5
Scenario: Home page - check if all the books are displayed
  Given I open homepage
  When I click on "sign_in" button on home page
  And I fill the user details for "existing" customer
  And I click on "sign_in" button on sign page
  And I validate if the books are visible
  And I validate my profile details is displayed
```

**Test Methodology: Behavior-Driven Development (BDD)**

Test Cases for the Given Scenario:

1. **Given I open homepage**
  - Test that the homepage is successfully loaded.
2. **When I click on "sign\_in" button on home page**
  - Test that the sign-in button is clickable.
  - Test that clicking the sign-in button navigates the user to the sign-in page.
3. **And I fill the user details for "existing" customer**
  - Test that the user details form on the sign-in page is present and fillable.
  - Test that filling correct user details for an existing customer does not trigger any errors.
4. **And I click on "sign\_in" button on sign page**
  - Test that the sign-in button on the sign-in page is clickable.



- Test that clicking the sign-in button processes the form submission.

#### 5. And I validate if the books are visible

- Test that all books are displayed on the homepage after logging in.
- Validate that the number of displayed books matches the expected number.

#### 6. And I validate my profile details are displayed

- Test that the user's profile details (e.g., name, email, avatar, etc.) are visible after logging in.
- Validate that the profile details match the expected information of the logged-in user.

#### Source Code:

```
1  Given(/^I open homepage$/) do
2    @browser.goto(ENV['ENDPOINT'])
3  end
4
5  When(/^I click on "([^"]*)" on signup page$/) do |button_name|
6    sleep @sleep_duration
7    @signup_page.send("#{button_name}_element").click
8  end
9
10 And(/^I fill the user details$/) do
11   sleep @sleep_duration
12   @signup_page.sign_up_email = Faker::Internet.email(domain: 'gmail')
13 end
14
15 And(/^I set the "([^"]*)" length long password for the account$/) do |password_length|
16   sleep @sleep_duration
17   @signup_page.sign_up_password = Faker::Internet.password(min_length: password_length.to_i, max_length: password_length.to_i)
18 end
19
20 Then(/^I land on the "([^"]*)" page$/) do |expected_text|
21   sleep @sleep_duration
22   expect(@home_page.user_profile).to include(expected_text)
23 end
24
25 And(/^I fill the user details for "([^"]*)" customer$/) do |arg|
26   sleep @sleep_duration
27   @login_page.sign_in_email = 'test123@gmail.com'
28   @login_page.sign_in_password = '12345678'
29 end
30
31 Then(/^I should see the error message "([^"]*)" for "([^"]*)"$/) do |arg1, arg2|
32
33 end
34
35 When(/^I click on sign up link$/) do
36   sleep @sleep_duration
37   @home_page.sign_up_element.click
38 end
39
40 And(/^I click on "([^"]*)" button on home page$/) do |button_name|
41   sleep @sleep_duration
42   @home_page.send("#{button_name}_element").click
```

Ln 1, Col 1

**Expected Output:**

All the test cases should pass

1. Able to create an account
2. Able to login to the account successfully
3. Verify user information on the home page

**Actual Output:**

1. Able to create an account
2. Able to login to the account successfully
3. Verify user information on the home page

```
$ rake run_test
rake task: run_test
WARNING: consider using an array rather than a space-delimited string with cucumber_opts to avoid undesired behavior.
C:/Ruby32-x64/bin/ruby -S bundle exec cucumber --format pretty --tags '@test_case_1' --profile local
Using the local profile...
Feature: Login functionality on Sinatra ruby app

  @system_test @test_case_1
  Scenario: Register account # features/scenario/account_creation.feature:4
  I, [2023-11-03T18:45:20.693709 #32364] INFO -- : Scenario name: Register account
  "browser-type: edge"
  "Env: local"
  "remote: false"
  [27608:2204:1103/184524.554:ERROR:policy_logger.cc(157)] :components\enterprise\browser\controller\chrome_browser_cloud_management_controller.cc(163) Cloud management con
  nitialization aborted as CBCM is not enabled.
  [27608:2204:1103/184524.573:ERROR:assistance_home_client.cc(32)] File path C:\Users\harip\AppData\Local\Temp\scoped_dir4156_2072610573\Default
  DevTools listening on ws://127.0.0.1:54834/devtools/browser/f2e1a759-b9b1-4740-b974-f0d5f710b82e
  [27608:9824:1103/184524.750:ERROR:cert_verify_proc_built.cc(703)] CertVerifyProcBuiltin for wpad failed:
  ----- Certificate i=0 (CN=self-signedKey,0=Sagemcom Ca,C=FR) -----
  ERROR: No matching issuer found

  [1604:3304:1103/184524.750:ERROR:ssl_client_socket_impl.cc(1155)] handshake failed; returned -1, SSL error code 1, net_error -202
  [27608:24100:1103/184524.834:ERROR:cert_verify_proc_built.cc(703)] CertVerifyProcBuiltin for wpad failed:
  ----- Certificate i=0 (CN=self-signedKey,0=Sagemcom Ca,C=FR) -----
  ERROR: No matching issuer found

  [1604:3304:1103/184524.834:ERROR:ssl_client_socket_impl.cc(1155)] handshake failed; returned -1, SSL error code 1, net_error -202
  Given I open homepage # features/step_definition/common_step.rb:1
  When I click on sign up link # features/step_definition/common_step.rb:35
  And I fill the user details # features/step_definition/common_step.rb:10
  [1604:3304:1103/184532.800:ERROR:ssl_client_socket_impl.cc(1155)] handshake failed; returned -1, SSL error code 1, net_error -202
  [1604:3304:1103/184532.880:ERROR:ssl_client_socket_impl.cc(1155)] handshake failed; returned -1, SSL error code 1, net_error -202
  And I set the "8" length long password for the account # features/step_definition/common_step.rb:15
  And I click on "sign_up_button" on signup page # features/step_definition/common_step.rb:5
  Then I land on the "User Profile" page # features/step_definition/common_step.rb:20
  And I click on "logout" button on home page # features/step_definition/common_step.rb:40
  I, [2023-11-03T18:45:40.342089 #32364] INFO -- : Scenario Passed?: true

  1 scenario (1 passed)
  7 steps (7 passed)
```