

SDET TEST (Adi Darmawan)

FAQ and HOW TO

- How long is the assignment supposed to take? *The assignment has been designed to be finished in 1-3 days. but it might take longer to get to know these frameworks and practices.*
- For the non-code test, please use Google doc or sheet, and provide us the link.
- Do I have to submit to **GIT** repository? **YES**, *as part of good development practice, we expect you to do frequent commits with proper git commit messages. So we will verify them in the evaluation phase. (Please use **PRIVATE GITHUB** repository) or otherwise submit with attachment in email.*
- Do I have to write test for code that I have written? **YES**, *as part of good development practice, we expect you to write a unit test that cover negative and positive cases.*
- **When you have completed this assignment, please send us your repository link and please make sure we can access it thoroughly.**

[QA Basic]

1. Create any possible test case for refrigerator!
2. Mention any elements that should be present on a Register and Sign In page and its functionality!
3. Create any possible test case for Register and Sign in!
4. Mention any possible front-end and back-end issue on Register and Sign in!
5. For Register and Sign in feature, mention any security issue that might be occur!

[Answer]

1. Functionality :

- a. Check the cooling of each setting.
- b. Check if the light is turned off when the door is closed.
- c. Check if the light is turned on when the door is opened.
- d. Check if there are specific settings for specific types of food.
- e. Verify the setting of the refrigerator.
- f. Check the cooling of each setting.

Usability :

- a. Check if the door is easy to open.
- b. Check if the interior is easy to clean.
- c. Verify the hinges of the door.

Performance :

- a. Check if the refrigerator can handle the voltage variation.

- b. Check at what voltage level the fridge stops functioning.
- c. Check if there are any voltage fluctuations when the door is open.

2. Elements and functionality on Register Page :

- a. Username field → the username field for user logins into page after registering.
- b. Name field → data for that user.
- c. Email field → confirm the registration and data for login.
- d. Password field → security.
- e. User agreement checkbox → user agrees to the applicable police after registering.
- f. Submit button → send data to server.
- g. Login button → if the user has an account at that page, the user can go to the login page easily.
- h. Hide/unhide button on password field → user can see the password.
- i. Placeholders on each field → user can fill the data easily.
- j. Error Message → user can find out if there is an input error.
- k. Labels on each field → user can find out which fields are being filled easily.

Elements and functionality on Sign in Page :

- a. Email field → input for login.
- b. Password Field → input for login and security.
- c. Submit Button → send data to server.
- d. Forgot Password Button → if the user forgets the password, the user can reset the password easily.
- e. Hide/unhide button on password field → user can see the password.
- f. Placeholders on each field → user can fill the data easily.
- g. Error Message → user can find out if there is an input error.
- h. Labels on each field → user can find out which fields are being filled easily.

3. Test case for register page :

Functional :

- a. Verify that all the specified fields are present on the page.
- b. Verify that the required/mandatory fields are marked.
- c. Verify the register page if both of the fields are blank and the submit button is clicked, warning should be displayed.
- d. Verify that entering blank space on mandatory fields leads to the validation error.
- e. Verify that all fields have a valid placeholder.
- f. Verify that clicking on the submit button after entering all the mandatory fields, submits the data to the server.
- g. Verify that clicking on the submit button by leaving optional fields, submits the data to the server without any validation error.

- h. Verify that system generates a validation message when entering existing username/ email.
- i. Verify that the validation of the email field by entering incorrect email id.
- j. Verify that the “terms and conditions” checkbox is unselected by default (depends on business logic).
- k. Verify that the password and confirm password are the same or not.
- l. Check validation on numeric fields by entering alphabets and special characters.

Non-Functional :

- a. Verify that the password is encrypted when entered.
- b. Verify the implementation of SSL certificate.

Test case for Sign in page :

Functional :

- a. Verify if a user will be able to login with valid data.
- b. Verify if a user cannot login with a valid username/email and an invalid password.
- c. Verify if a user cannot login with invalid data.
- d. Verify the login page if both of the fields are blank and the submit button is clicked.
- e. Verify the message for invalid login.
- f. Verify the ‘Forgot Password’ functionality.
- g. Verify if the data in the password field is either visible as asterisk or bullet signs.
- h. Verify if the user is able to login with a new password only after the user has changed the password.

Non-Functional :

- a. Verify if a user cannot the characters more than the specified range in each field.
- b. Verify the login page by pressing ‘Back Button’ of the browser. It should not allow you to enter into system once you log out.
- c. Verify the timeout functionality of the login session.
- d. Verify the login page against SQL injection attack.
- e. Verify the implementation of SSL certificate.

4. Front-end and back-end issue on Register and Sign in page :

- a. No field validation.
- b. No autofocus on the field.
- c. No crosslink between Login/Sign up.
- d. The page that never finished loading after submit..

5. Security issue on register and sign in feature :

- a. Descriptive error messages.
- b. Weak password requirements.
- c. Password complexity that’s not enforced.

- d. Allowing unlimited login attempts.
- e. Storing password as plaintext.
- f. Not regenerating session.