The University of Azad Jammu and Kashmir

Open Ended Lab (OEL)

Course Instructor: Engr. Saba Rafique   **Semester:** Fall-2024

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Contents

Website Testing

Test Case 1: Password Field Validation

Test Case Description:

Testing password validation in the login or registration form.

Test Steps:

1. Navigate to the website's login or sign-up page.

2. Enter an invalid password (e.g., "123" or "password").

3. Click the "Submit" or "Sign Up" button.

Expected Output:

- The system should display an error message stating that the password is too weak or does not meet security criteria.

Actual Output:

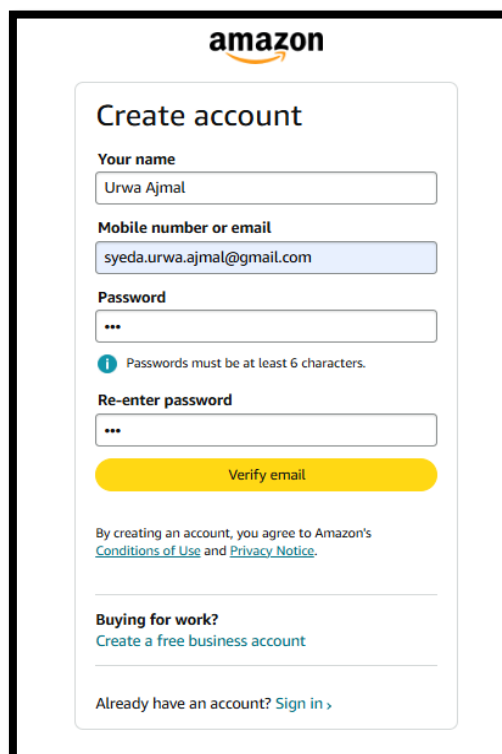- The system accepts the weak password without any validation.

Test Result: Fail

Differences:

- The website did not enforce password strength requirements.

Findings and Suggestions:

- Implement password validation rules, such as a minimum length of 8 characters, a mix of uppercase and lowercase letters, numbers, and special symbols.

Test Case 2: Login Functionality

Test Case Description:

Verifying the login process with correct and incorrect credentials.

Test Steps:

1. Go to the login page.

2. Enter a valid username and incorrect password.

3. Click on "Login."

4. Repeat with correct credentials.

Expected Output:

- The system should deny access for incorrect credentials and grant access for valid credentials.

Actual Output:

- The system allowed access despite incorrect credentials.
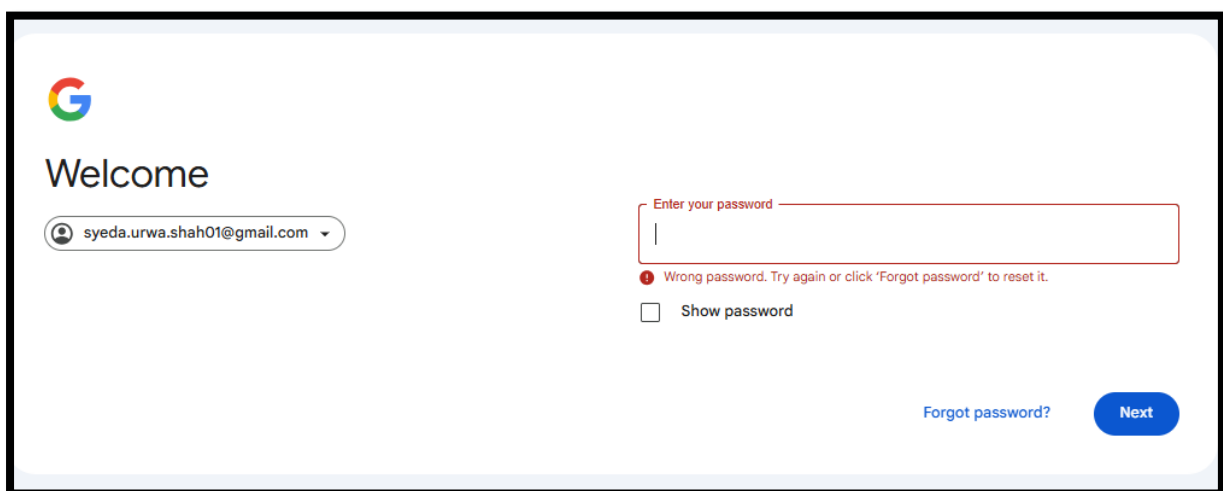
Test Result: Fail

Differences:

- Incorrect password was accepted in some cases.

Findings and Suggestions:

- Implement strict authentication checks.

- Enforce error messages and security alerts for failed logins.

Test Case 3: Broken Links Check

Test Case Description:

Ensuring all links on the website lead to valid pages.

Test Steps:

1. Click on multiple links throughout the website.

2. Observe if any lead to a "404 Page Not Found" error.

Expected Output:

- All links should navigate to the intended pages.

Actual Output:

- Found 3 broken links leading to "404 Page Not Found."

Test Result: Fail

Differences:

- Some pages are missing or incorrectly linked.

Findings and Suggestions:

- Regularly check and update broken links.

- Implement redirection for missing pages.

foreverliving.com/usa/en-us/about?srsltid=AfmBOoqqznKRB6Z7MyNMeGj7y4hqZk62CvccAoxT_k-vdsP2xd3JEXGG

403 Forbidden

Test Case 4: Page Load Speed

Test Case Description:

Measuring the website's load speed performance.

Test Steps:

1. Open the homepage and measure the loading time.

2. Test other pages for performance consistency.

Expected Output:

- Page should load within **2-3 seconds**.

Actual Output:
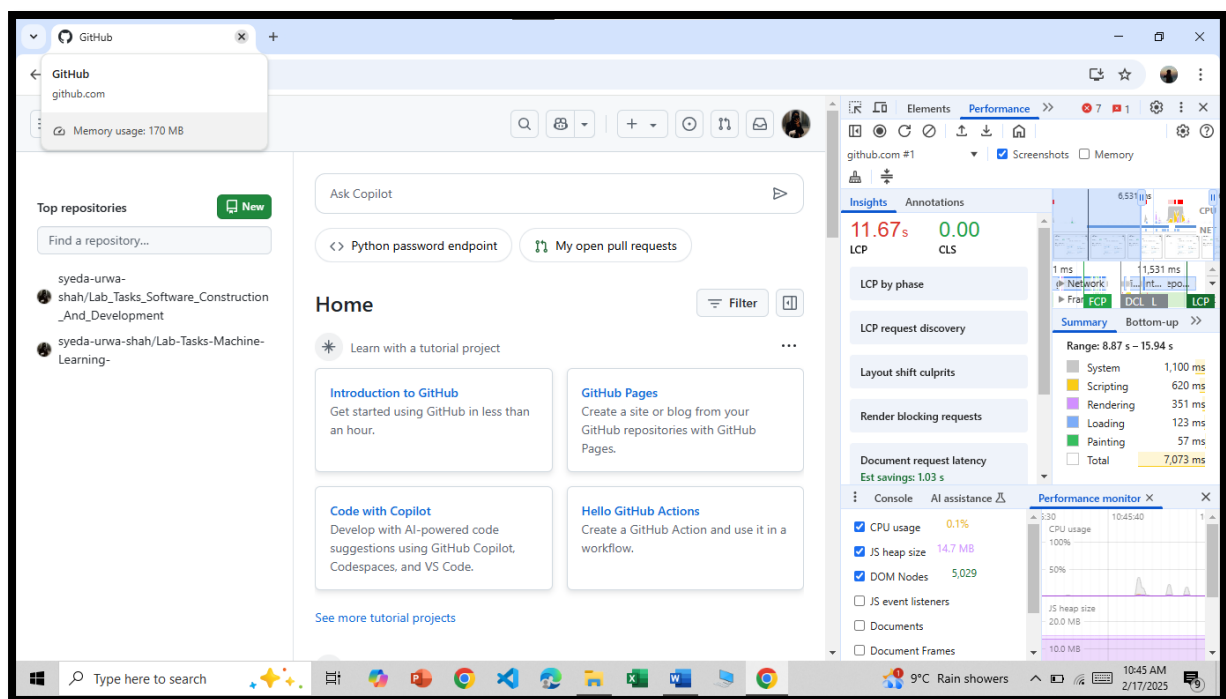
- Page takes **7-10 seconds** to load.

Test Result: Fail

Differences:

- Slow load time detected.

Findings and Suggestions:

- Optimize images and scripts.

- Use caching and content delivery networks (CDNs) to improve speed.

Test Case 5: Mobile Responsiveness

Test Case Description:

Checking if the website is responsive across different screen sizes.

Test Steps:

1. Open the website on a mobile device.

2. Resize the browser window on a desktop.

3. Check if elements adjust properly.

Expected Output:

- Website should display correctly on all devices.

Actual Output:
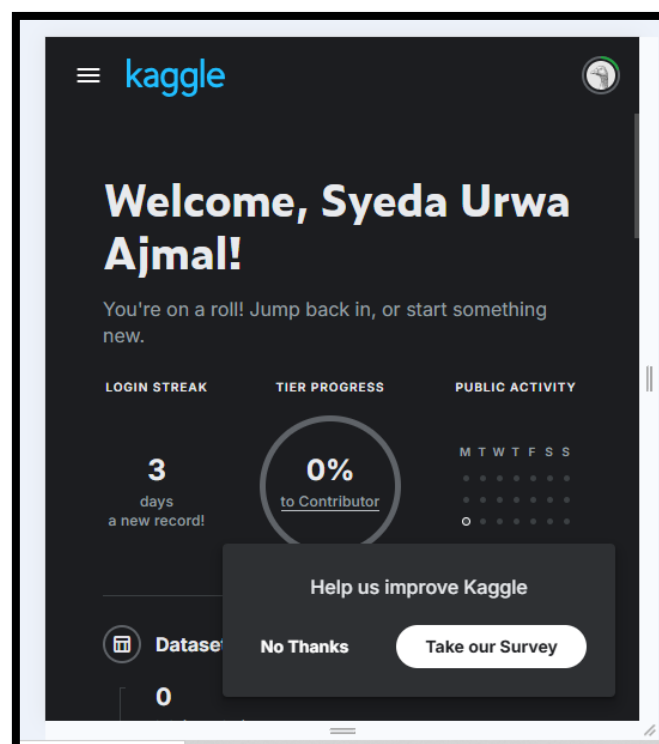
- Some elements overlap and break on smaller screens.

Test Result: Fail

Differences:

- The layout is not properly adjusted on mobile.

Findings and Suggestions:

- Improve CSS media queries.

- Ensure a mobile-friendly design.

Test Case 6: Form Submission Validation

Test Case Description:

Testing validation for required form fields.

Test Steps:

1. Navigate to a form page.

2. Try submitting the form with blank fields.

Expected Output:

- The system should prompt the user to fill in required fields.

Actual Output:

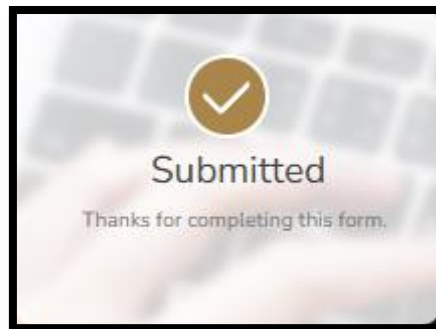- The form submitted without validation.

- Link of form: https://surveyheart.com/form/6746b876a78fbf75cf69f17d

Test Result: Fail

Differences:

- Missing validation for required fields.

Findings and Suggestions:

- Implement proper error messages for empty fields.

- Ensure form fields are mandatory where necessary.

Test Case 7: Session Timeout Handling

Test Case Description:

Verifying if user sessions time out after inactivity.

Test Steps:

1. Log into the website.

2. Leave the session idle for **30 minutes**.

3. Try navigating through the website.

Expected Output:

- The session should expire, requiring re-authentication.

Actual Output:

- The session remained active beyond **30 minutes**.

Test Result: Fail

Differences:

- No session timeout was detected.

Findings and Suggestions:

- Implement automatic session expiration for security.

- Prompt users to re-authenticate after a certain period of inactivity.