

Practical Experiment - 2

22/4/25.

Functional and Security Testing of Facebook Login Module

Objective:-

To perform functional testing and basic security testing on the facebook login page ensuring the login process works correctly and handles incorrect inputs securely.

Software Requirements.

- facebook login page
- Web Browsers: chrome, Firefox, Edge.
- Manual testing Tools: Notepad (or) Excel

Hardware requirements.

- A computer/laptop with stable internet access.

Test Scenario.

When a user tries to log in using the facebook login form

- The system should validate the email/phone and password fields.

- On valid credentials, user should be logged in.
- On invalid credentials, proper error messages should be shown.
- Empty inputs should be handled gracefully.
- Password should be masked.

Test steps:-

1. Open Facebook page.

→ Launch a browser visit Facebook.com.

2. Test invalid login.

→ Enter valid email and invalid Password

→ Enter invalid email & valid password.

→ Leave both fields empty.

3. Test valid login:-

→ Enter valid email / phone number and valid password

→ click on "Log In" button.

4. Test field validations

→ check if empty fields throw errors.

→ check for password masking.

→ check maximum and minimum character limits.

5. Security Observation (US-level)

- Ensure password is ^{not} visible.
- "Show password" option (if present) should toggle making.
- Error messages should not disclose security details (eg: "Wrong password" vs. "Wrong Username")

6. Cross-Browser Testing.

- Test login behaviour on chrome, Firefox, Edge.

Test case document

Test case ID	Scenario	Input	Expected result	Actual Result	Status
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Test case Document.

Testcase ID.	Scenario.	Input	Expected result	Actual result	Status	Comment.
TC-FB-001	valid login	valid email/ password	login Successful dashboard loaded.	login Successful dashboard loaded.	Pass	login is successful
TC-FB-002	Invalid Password	valid email, invalid Password	"Incorrect password" message shown	Incorrect Password message shown	Pass	Incorrect password msg is shown
TC-FB-003	Empty fields.	No input	Error msg shown below fields.	Error msg is shown below fields	Pass.	Error msg is shown
TC-FB-004	Password masking	Enter Password	characters should appear as dots	Password appear as dots.	Pass	characters appear as dots
TC-FB-005	Security msg check	wrong email & password	Generic error message	error message is shown	Pass	error msg is shown
TC-FB-006.	cross browser compatibility	Open in multiple browsers	Consistent login experience in each browser.	working in multiple browsers	Pass.	works on multiple browsers.

Expected Outcome:-

- The Facebook login form should handle all inputs properly.
- Users should not be able to log in with wrong credentials.
- No sensitive information should be leaked through error messages.
- Password must remain hidden unless "show" option is ~~use~~ chosen.

Conclusion:-

This experiment helps students understand functional and UI-level security testing in real world logic systems. It gives hands on experience with user validation error-handling and secure input behaviour.

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