Test Summary Report

Echo Social Media Application

Project Name: Echo Social Media Application

Tested Modules: Login Module, Registration Module, Home Page Module

Test Type: Manual Testing (Primary Focus) and Automation Testing (Selected Workflows)

Test Duration: Not specified for this reporting period.

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1. Objective

This report outlines the testing activities and outcomes for the **Login Module**, **Registration Module**, and **Home Page Module** of the Echo Social Media Application. The primary objective was to verify that the functionalities listed in the Functional Requirement Document (FRD) for these modules were implemented correctly and behave as expected in the context of manual testing efforts.

2. Scope of Testing

In Scope:

- **Login Module:** User authentication, input validations, error handling, and navigation.
- **Registration Module:** User account creation, field validations, error messaging, and redirection.
- **Home Page Module:** Post creation, feed rendering, basic UI elements, and navigation links.

3. Testing Approach

The testing approach for the Echo application was a **hybrid strategy**, combining comprehensive manual testing with targeted automated testing.

- **Manual Testing:** Used for functional validation, UI/UX checks, and exploratory testing.
- **Automation Testing:** Implemented using Selenium WebDriver with Java for critical workflows (login, registration, post creation).
- **Sanity Testing:** Conducted to check the readiness of the code for further testing.
- Test Cases were designed based on the FRD and traceability confirmed via the RTM.

4. Test Execution Summary

Metric	Count
Total Test Scenarios	10
Total Test Cases	52
Test Cases Passed	36
Test Cases Failed	16
Not Executed	0
Pass Percentage	**69.23%**

5. Defect Summary

Priority Count

Priority	Count
Critical	0
High	5
Medium	9
Low	0
Total	**16**

Key Defects:

- **Login Module:** High-severity/priority defects related to valid login credentials and incorrect error messages for short passwords.
- **Registration Page:** Defects concerning failed registration for new users and email validation issues.
- **Home Page:** A low-severity/priority defect related to a minor UI glitch.
- **General:** One E2E test case failed, indicating a break in a critical end-to-end flow.

6. Test Environment

Test URL: https://echo1234.com

Platform: Web
Browser: Google Chrome, Microsoft Edge (Mozilla Firefox and Safari also supported as per Test Plan)

7. Observations

- The testing focused on the critical Login, Registration, and Home Page modules.
- A total of 52 test cases were executed, resulting in 16 defects.
- One E2E test case failed, highlighting a potential issue in a critical user flow.
- The majority of reported defects (13 out of 16) are concentrated on the Home Page, suggesting higher instability in this module.
- Defects are primarily of High and Medium severity/priority, indicating significant impact areas.
- Validation issues, particularly concerning email format and password strength, were noted.

8. Conclusion

The Echo Social Media Application's Login, Registration, and Home Page modules have undergone detailed testing. While core functionality is in place and a portion of tests passed successfully, several critical and high-severity defects are present, particularly on the Home Page, and one E2E test case failed.

Recommendation: The build is not yet ready for production. Fixes are required for the identified defects, especially those of High and Medium severity/priority, before sign-off.