Test Summary Document

Echo Social Media Application

Done By:

Team Bytewarriors

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# 1 Purpose of this document

This document outlines the various activities performed as part of the manual testing of the ‘Echo Social Media’ application. It defines the testing approach and practices adopted to ensure the successful delivery of a high-quality social media application. The document explains the tests performed, their types, the scope of testing, and metrics of the test results. It aims to identify and resolve defects early, ensure system stability, and deliver a reliable and intuitive user experience upon release.

# 2 Application Overview

Echo is an innovative, user-centric social media application designed to foster real-time interaction, community engagement, and content discovery. Its purpose is to provide a platform for users to express themselves, share ideas, and connect with others through features like hashtags, messaging, and posts. The application aims to reduce digital friction and enhance user experience through intuitive design and rich features.

## 2.1 Key functional modules include

* Login & Registration
* Home Page (including Left Sidebar, Top Bar, Main Feed, Right Sidebar)
* Search Feature
* Suggestions Box
* Explore Box
* Notifications Box
* Followers/Following
* Profile Page & Update Profile

# 3 Testing Scope

The testing for this phase of the Echo social media application was focused on the following modules:

## 3.1 In Scope

### 3.1.1 Login Module

Validates user authentication, input validations, error handling, and navigation to the home page upon successful login.

### 3.1.2 Registration Module

Ensures correct user account creation, field validations, error messaging, and redirection to the login page.

### 3.1.3 Home Page Module

Covers post creation, feed rendering, basic UI elements, and navigation links within the home interface.

## 3.2 Other In-Scope Items

* Validation of input fields, error messages, and form behaviors.
* Navigation between login, registration, and home page.
* Verification of UI elements and layout consistency across supported browsers.
* Logging and tracking defects using the designated bug tracking tool.

## 3.3 Out of Scope

### 3.3.1 Modules

* Search Feature
* Suggestions Box
* Explore Box
* Notifications
* Followers/Following
* Profile Page and Update Profile Functionality

These modules are planned for future iterations or separate validation cycles.

# 4 Types of Testing

## 4.1 Smoke / Sanity

A basic acceptance test performed to check the readiness of the code for further testing.

## 4.2 UI (User Interface)

Tests that verify the usability and visual aspects of the application's interface.

## 4.3 Functional

Tests that verify the functionalities, such as processing of inputs, transactions, and variations within a specific feature.

## 4.4 E2E (End-to-End)

Critical Path Tests that check the main end-to-end flow of a functionality, ensuring the entire system works as expected from start to finish.

## 4.5 Positive / Negative

These tests are based on the validation flow, covering scenarios where expected valid inputs lead to expected valid outputs (Positive) and scenarios where invalid inputs lead to expected error handling (Negative).

# 5 Test metrics

The key test metrics from the manual testing of the application are:

* Total Test Cases Executed: 52
* Test Cases Passed: 36
* Test Cases Failed: 16

## 5.1 Test Cases by Type

* SMOKE: 2
* UI: 6
* NEGATIVE: 17
* FUNCTIONAL: 23
* E2E: 1
* POSITIVE: 3

## 5.2 Defect Overview

* Total Defects Reported: 16
* Open Defects: 16
* Closed Defects: 0

## 5.3 Defects by Severity

* + - Critical: 0
    - High: 6
    - Medium: 8
    - Low: 0

## 5.4 Defects by Priority

* Critical: 0
* High: 5
* Medium: 9
* Low: 0

## 5.5 Defects by Module

* Login Page: 0
* Registration Page: 3
* Home Page: 13

# 6 Test Report

The testing focused on the Login, Registration, and Home Page modules of the Echo application. 52 testcases were executed on the application and 16 defects were found, most of them being simple testcases, however one E2E testcase also failed.

However, five defects were reported across these modules. Two high-severity and high-priority defects were found in the Login Page module (DE\_001 related to login with valid credentials and DE\_004 for incorrect error messages with short passwords). Two defects were reported for the Registration Page (DE\_002, a closed medium-priority defect where registration failed for new users, and DE\_005, a medium-severity, high-priority open defect concerning email validation). A low-severity, low-priority defect (DE\_003) was also identified on the Home Page, related to a minor UI glitch.

# 8 Recommendations

Based on the defect report, the following recommendations are made to the development team:

## 8.1 Prioritize critical Login and Registration defects:

Address the high-severity and high-priority defects (DE\_001, DE\_004, DE\_005) in the Login and Registration modules as they directly impact user access and onboarding.

## 8.2 Verify error messaging consistency:

Ensure that all error messages are accurate and user-friendly, as highlighted by defect DE\_004.

## 8.3 Comprehensive email validation review:

Conduct a thorough review of email validation logic to prevent invalid formats from being accepted, as seen in defect DE\_003) to enhance user experience.

## 8.4 Complete test case execution:

Ensure all defined test cases are fully executed and their statuses (Pass/Fail) are updated to provide a complete picture of testing coverage and quality.

# 9 Conclusion

The manual testing efforts for the Echo social media application focused on the critical Login, Registration, and Home Page modules as per the defined scope. While the full execution status of all test cases is not available, the reported defects highlight areas requiring immediate attention, particularly concerning user authentication, registration, and basic UI stability. Addressing these identified issues will be crucial for improving the application's quality and ensuring a seamless user experience upon release.