**Test plan for Social networking web application**

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## 

1. **Introduction**
   1. **Purpose**

The purpose of a test plan for the social networking web application is to test the application to make sure that every functionality is working properly and as expected.

**1.2 Project Overview**

A social networking web application is like a digital community where people can create profiles, connect with friends, share updates, photos, and videos, and interact with each other through messages, comments, and likes. It's a place where users can discover new people, interests, and content, and stay connected with others online.

1. **Scope**

**2.1 In-scope**

This test plan covers testing activities for all key features of the social networking web application, including user registration, authentication, profile management, content creation, social interactions, notifications, and overall system performance.

**2.2 Out-of-Scope**

**3.** **Testing Strategy**

**3.1 Test Objectives**

The objective of this test plan is to ensure the functionality, usability, performance, and security of the social networking web application.

**3.2 Data Approach:**

* Valid test data
* Invalid test data
* New data entry
* Real time update of data over the application

**3.3 Levels of testing:**

* **Smoke Testing:** Smoke testing is done to determine whether the most important features work as expected and that there are no blockers in the build that can potentially lead to blocking the entire testing team.
* **Unit Testing:** In this testing each individual component of the application will be tested whether they are working as expected or not.
* **Functional Testing**: In this testing tester tests whether application is working as expected or not as per functionalities defined.
* **Non-Functional Testing:** This is type of testing where software UI is tested to check whether UI is as per defined condition or not.
* **Regression Testing**: Type of testing to test whether application is working fine or not due to changes in code.

## 3.4 Functional Testing

Features to be tested.

* Login functionality
* Profile Management
* Content Creation
* Social Interaction
* Application settings

**4 Execution strategy**

**4.1 Entry criteria**

* All the requirements must be ready.
* Application must be prepared to test.
* Test Data must be prepared.

**4.2 Exit criteria**

* All test cases have been executed and passed.
* Defects found during testing have been resolved or mitigated.
* Application performance meets acceptable criteria.
* Security vulnerabilities have been addressed.
* Compatibility testing has been successfully completed on all target browsers and devices.

**4.3 Validation and Defect Management**

Whenever defect is observed, ticket should be created on Jira

Defect severity levels: Critical, Major, Minor.

Defect priorities: High, Medium, Low.

* Critical defect are those due to which functionality is blocking and testing cannot be proceeded further.
* Major defects are those due to which specific functionality is blocking but testing can be continued.
* Minor defects are defects like font size etc.

# **5. Environment Requirements:**

**5.1 Test Environments:**

Hardware, Software, and Network infrastructure required for testing.

The test environment will consist of multiple environments including development, staging, and production environments. Testing will be performed on various browsers (Chrome, Edge etc).