

# Communities A Social Media Platform(SM02)

## Test Plan

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## Test Overview

Communities is an online social media platform that allows users to create and join communities based on their interests. Users can create communities, post content, comment on posts, and interact with other users. The platform also includes other features such as chat, search, and recommendations and certain level of moderation.

This document outlines the test plan for Communities, including the modules to be tested, the types of tests to be conducted, and the test analysis.

The test plan includes the following operations/modules that will be tested:

- Authentication Modules
  - Login Module
  - Signup Module
  - Token Authentication Module
  - E2EE Module
- User Modules
  - Guest User Module
  - Registered User Module
  - Admin User Module
  - Moderator User Module
  - Superuser Module
- System Modules
  - Cache Manager Module
  - Recommender System Module
  - Job Scheduler Module
  - Services Module
    - \* Feed Service
    - \* Comments Service
    - \* Post Service
    - \* Search Service

- \* Votes Service
- \* Chat Service
- \* Connections Service
- \* Scoring Service
- DB Access Modules
  - User Module
  - Post Module
  - Comment Module
  - Vote Module
  - Chat Module
  - Community Module
- UI Modules
  - Listing Module
- Other Modules
  - Notification Module
  - Reporting Module
  - Moderation Module

The test plan includes the following sections:

- Test Overview: A brief overview of the test plan which also lists the operations/modules that will be tested.
- Test Details: Detailed information about the unit tests, integration testing, system testing, and performance testing.
- Test Analysis: A summary of the test statistics, functional test report, and performance test report.
  - Test Statistics: The number of classes, methods, modules tested, test cases, and test cases failed.
  - Functional Test Report: A summary of the functional test cases for each module, including the type of testing method used.
  - Performance Test Report: A summary of the performance test plan and report.

## Test Details

Unit tests for the modules

Integrating testing

The order in which you will integrate your modules and test cases for integrated modules.

System testing

Performance testing

### Unit Tests

List of all operations/modules that you plan to test

Table of test cases for each module

#### Authentication Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-1.1.a					

#### User Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-2.1.a					

#### System Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-3.1.a					

#### DB Access Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-4.1.a					

#### UI Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-5.1.a					

#### Other Module

S.No	Module Name	Conditions to be tested	Test Data	Expected Output	Status
UT-6.1.a					

#### Integration Testing

Integrating different modules and testing  
Unit tested submodules combined and tested  
Use bottom-up approach for integration of modules

S.No	Modules Integrated	Condition to be tested	Test Data	Expected Output	Status
1.1					

#### System Testing

Testing of system as a whole

#### Performance Testing

Performance testing plan

#### Test Analysis

We discussed the following seven types of black box testing in the class: equivalence class partitioning, boundary value analysis, decision table testing, state transition testing, error guessing, fuzz testing, and random testing.

Performance test plan/report

#### Test Statistics

- Number of classes:
- Number of methods:
- Number of modules tested:
- Number of test cases:
- Number of test cases failed:

## Functional Test Report

Functional test summary in the form of a table

Test case count for each module

Type of testing method used

equivalence class partitioning

boundary value analysis

cause-effect graphing

pair-wise testing

special cases

error guessing

state based testing

S.No	Module Name	Test Case Count	Testing Method
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## Performance Test Report