User Acceptance Testing (UAT) Report

Date: 15/04/2025

Team ID: SWTID1742901502

Project Name: Nexus Social App

Maximum Marks: —

# Project Overview

Project Name: Nexus Social App

The Nexus Social App is a modern social media platform designed to connect users and foster meaningful interactions. It provides a user-friendly interface where individuals can create profiles, share posts, and engage with others through comments and likes. The app aims to create a vibrant online community where users can express themselves, share their thoughts, and connect with friends and like-minded individuals.

Project Version: v1.0.0

Testing Period: 13/03/2025 to 15/04/2025

# Testing Scope

Features and Functionalities to be Tested:

1. **User Registration and Login**
   * Ensure users can sign up and log in securely.
   * Validate email uniqueness and password strength.
2. **User Profile Management**
   * Allow users to create, edit, and update their profiles, including profile pictures and bios.
3. **Post Creation and Management**
   * Test the ability to create, edit, and delete posts.
   * Validate content length and media uploads.
4. **Commenting System**
   * Ensure users can comment on posts and manage their comments (edit/delete).
5. **Likes and Engagement**
   * Test the functionality for users to like and unlike posts.
   * Validate the display of like counts.
6. **Dashboard (User /Administrator)**
   * Ensure users have access to their personalized dashboard displaying their posts, comments, and notifications.
   * Admins should have a dashboard to monitor user activity and manage content.
7. **Responsive Design**
   * Test the app's usability across various devices and screen sizes.
8. **Error Handling and Validation**
   * Validate error messages for incorrect inputs during registration, login, and post creation.
   * Ensure proper handling of server errors and user feedback.
9. **Notification System**
   * Test real-time notifications for likes, comments, and new followers.
10. **Security Measures**
    * Validate user authentication and authorization processes.
    * Ensure data protection measures are in place for user information.
11. **Database Connectivity and CRUD Operations**
    * Test the connection to the MongoDB database.
    * Validate all CRUD operations for users, posts, comments, and likes.

User Stories or Requirements:

* As a user, I want to sign up and log in securely so that I can access my account and manage my content.
* As a user, I want to create and edit my profile so that I can share information about myself with others.
* As a user, I want to create posts with text and images so that I can share my thoughts and experiences with my followers.
* As a user, I want to comment on posts so that I can engage in discussions and share my opinions.
* As a user, I want to like posts so that I can show appreciation for content I enjoy.
* As a user, I want to receive notifications for likes, comments, and new followers so that I can stay updated on my interactions.
* As an admin, I want to monitor user activity and manage content to ensure a safe and positive community environment.
* As a user, I want the app to be responsive so that I can access it easily on my mobile device or desktop.

# Testing Environment

URL/Location: http://localhost:5173 (Frontend), http://localhost:8000 (Backend API)

# Test Cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC-001 | User Registration | 1. Go to Signup 2. Fill form 3. Submit | New user account is created | Account successfully created | Pass |
| TC-002 | User Login | 1. Navigate to Login 2. Enter credentials 3. Submit | Redirect to user dashboard | Redirected to dashboard | Pass |
| TC-003 | Profile Management | 1. Login as user 2. Go to Profile 3. Edit profile information 4. Save | Profile information is updated | Profile updated successfully | Pass |
| TC-004 | Post Creation | 1. Login as user 2. Go to Create Post 3. Enter content 4. Submit | New post is created and displayed | Post created successfully | Pass |
| TC-005 | Commenting on a Post | 1. Login as user 2. Navigate to a post 3. Enter comment 4. Submit | Comment is added to the post | Comment added successfully | Pass |
| TC-006 | Liking a Post | 1. Login as user 2. Navigate to a post 3. Click like button | Post is liked and like count is updated | Like count updated | Pass |
| TC-007 | User Dashboard | 1. Login as user 2. View dashboard | User's posts, comments, and notifications visible | Dashboard displayed correctly | Pass |
| TC-008 | Notification System | 1. Like a post 2. Check notifications | Notification for like is received | Notification received | Pass |
| TC-009 | Form Validation | 1. Go to Signup 2. Leave fields empty 3. Submit | Error messages shown for required fields | Validation errors shown | Pass |
| TC-010 | Admin Panel Access | 1. Login as admin 2. Access admin panel | Admin dashboard is displayed | Admin data loaded correctly | Pass |
| TC-011 | User Profile Viewing | 1. Login as user 2. Navigate to another user's profile | User's profile information is displayed | Profile displayed correctly | Pass |
| TC-012 | Post Deletion | 1. Login as user 2. Navigate to own post 3. Click delete | Post is deleted and no longer visible | Post deleted successfully | Pass |

# Bug Tracking

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bug ID** | **Bug Description** | **Steps to Reproduce** | **Severity** | **Status** | **Feedback** |
| BG-001 | User profile picture not updating | 1. Login as user 2. Go to Profile 3. Upload new profile picture 4. Save | Medium | Closed | Fixed by updating image upload functionality |
| BG-002 | Comments not displaying under posts | 1. Login as user 2. Navigate to a post 3. Add a comment 4. Refresh page | High | Closed | Resolved by fixing rendering logic for comments |
| BG-003 | Likes count not updating after liking a post | 1. Login as user 2. Navigate to a post 3. Click like button | Medium | Closed | Fixed with real-time update for like count |

# Notes

* All critical and high-severity bugs have been successfully addressed during the testing period, ensuring a stable and reliable user experience for the Nexus Social App.
* Functionality and user flow have been thoroughly verified through both positive and negative test scenarios, confirming that the application behaves as expected under various conditions.
* User feedback has been collected and analyzed, leading to enhancements in usability and performance, particularly in areas such as profile management and post interactions.
* Future improvements are planned to further enhance the Nexus Social App, including:
  + **OTP Login:** Implementing one-time password (OTP) authentication to provide an additional layer of security during user login.
  + **Multilingual Support:** Expanding the app's accessibility by offering support for multiple languages, catering to a diverse user base and enhancing user engagement.
  + **Payment Gateway Integration:** Exploring options for integrating a payment gateway to facilitate potential monetization features, such as premium memberships or in-app purchases for exclusive content.
* Continuous monitoring and updates will be conducted to ensure the app remains secure, user-friendly, and aligned with the evolving needs of its community.