

CS 161 Product Test Plan

Section 1: Feedback from Others

Feedback: Use Postman for testing the backend. (Gitinsight).

Section 2: Project Overview and Build Instructions For Testing

Detailed Description of the End Product:

The "BeyondBottle" app, focused on proactive continuum care for alcohol addiction, utilizes Kotlin for native code development. The app incorporates MVC architecture, ensuring efficient organization and management. Key features include an activity feed, a dynamic leaderboard, and a post-sharing platform for resourceful content. To enhance data management and user interaction, APIs are implemented. User authentication is secured through token-based authentication, ensuring a robust and secure user experience.

Testing Instructions for Expert Users to Carry out the Tests:

Building the project:

Before running the app, make sure you have the following installed:

- Java Development Kit (JDK): link.
- Andriod Studio.
- Andriod Emulator (when can be installed using andriod studio).

Requirements for Hardware, Software, and/or Password Key:

- Hardware: To test the project, you need a computer, a mouse or a trackpad, and a keyboard.
 - Software: To test the project, the software needed is Android Studio
- Password Key: N/A

Section 3: Automation (Complexity of Testing Instructions)

Time and Effort to Set Up the Test Plan For Execution:

- Cloning the Project, Installing Dependencies, and Starting Project : 20 min
- Download and Setup for All Testing Tools: 15 min
- Time for Testing Features: 40 min (approx)
- Time for Backend: 20 min (approx)

Testing Tools:

- Testing: Postman (for API testing), manual testing

Section 4: Testing Information

Time to Finish the Tests: TBD, since some features are still under development.

Test Cases for Each Feature:

Feature	Functionality	Description	Testcase	Time Taken	Result
Landing Page	Landing page	User should be able to view all the discussion posts, their comments, upvotes, downvotes and navbar	Open the Ui and check if the buttons are visible and clickable	<2 minutes	
User Authentication	Sign Up	User should be able to sign up using email and password.	Can navigate to the UI and sign up with email id and password	<1 minute	
	Log Out	User should be able to log out of the app	user should be able to click on user icon on top right corner and log out	< 1 minute	
	Log In	User should be able to log in using email and password.	Can navigate to the UI and log up with email id and password	< 1 minute	
Discussion posts	Post creation	Post Creation feature allows users to compose and publish new content on the platform, such as articles, blogs, or status updates.	Navigate to daily feed and add a post. Verify successful submission and publication of the post; check that the post appears on the platform's feed or designated section.	< 5 minute	
	Comments	Comments feature enables users to engage with content by leaving feedback, opinions, or questions on posts or articles.	Access a post/article with existing comments; verify that the comments section is visible and functional; add a new comment and verify its successful submission and display alongside existing comments.	< 3 minute	
	Upvotes	Upvotes feature allows users to express appreciation or agreement with content by clicking on a positive reaction button, typically represented by an arrow pointing upwards.	Access a post/article with upvote functionality enabled; verify that the upvote button is visible and clickable; click on the upvote button and verify that the vote count increases accordingly.	< 2 minutes	
	Downvotes	Downvotes feature allows users to express disapproval or disagreement with content by clicking on a negative reaction button, typically represented by an arrow pointing downwards.	Access a post/article with downvote functionality enabled; verify that the downvote button is visible and clickable; click on the downvote button and verify that the vote count decreases accordingly.	<5 minutes	

Leaderboard	View Leaderboard	View Leaderboard feature allows users to see a ranked list of top contributors or high-performing members based on certain metrics such as points, activity, or engagement.	Navigate to the Leaderboard section; verify that the leaderboard is displayed with appropriate rankings and user information; check that the data is accurate and up-to-date based on user activity.	< 2 minute s
Articles	View Articles	View Articles feature enables users to access and read published articles or posts on the platform, providing valuable information about battling alcohol addiction	Access the articles sections from the navbar; verify that a list of articles is displayed with titles, authors, and publication dates; click on an article and verify that it opens correctly, displaying the content in a readable format.	< 2 minute s
Navbar	Navigate via Navbar	The navigation bar is located at the top left of the interface, providing users with easy access to various pages within the platform.	Load any page within the platform; verify that the navbar is visible and contains essential navigation elements such as links to the home page, user profile, search functionality, and any other relevant sections; test each navbar link to ensure it directs users to the intended destination or functionality.	< 2 minute s