Team Name: STJR

Introduction

BUSzerk is a realtime mobile application designed to predict seat availability on metropolitan buses. The application integrates realtime data from bus ticketing machines, offering live updates on seat availability and providing users with a predictive AIpowered tool to enhance their commuting experience. The following test cases cover all primary features and screens within the app.

Test Cases Overview

1. Sign Up Page Functionality

Test Case ID: UI_001

Test Objective: Ensure new users can sign up successfully.

Precondition: User is on the SignUp page.

Steps:

1. Navigate to the SignUp page from the app's splash screen.

2. Input valid details such as username, email, password, and confirm password.

3. Tap on "Sign Up."

Expected Result: New account is created, and the user is redirected to the home page.

2. Login Page Functionality

Test Case ID: UI_002

Test Objective: Verify that users can log in with valid credentials.

Precondition: User has an existing account.

Steps:

1. Navigate to the Login page.

2. Enter valid email/username and password.

3. Tap "Login."

Expected Result: User is successfully logged in and taken to the home page.

3. Forgot Password Functionality

Test Case ID: UI_010

Test Objective: Ensure users can recover their password through the "Forgot Password" option.

Precondition: User has a registered account.

Steps:

1. On the Login page, tap on "Forgot Password."

2. Enter a registered email address.

3. Check the inbox for the reset link.

Expected Result: User receives a reset link and can successfully update their password.

4. Sign Up with Existing Credentials

Test Case ID: UI_011

Test Objective: Ensure that the app prevents duplicate accounts.

Precondition: User already has an account.

Steps:

1. Attempt to sign up using an existing email.

Expected Result: The app displays an error message stating that the email is already registered.

5. Home Page Navigation

Test Case ID: UI_003

Test Objective: Verify that all navigation elements on the home page are functional.

Precondition: User is logged into the app.

Steps:

1. Open the BUSzerk app and navigate to the home page.

2. Verify the presence of:

App logo at the top.

"Home," "About Us," "Help," and "Profile" navigation options.

Current Location and Destination fields next to each other.

Buttons for "Bus Stops Near Me" and "Search Buses."

3. Click on each button to check its functionality.

Expected Result: All elements on the home page work as intended.

6. Profile Management

Test Case ID: UI_007

Test Objective: Ensure users can view and manage their profiles.

Precondition: User is logged into the app.

Steps:

1. Navigate to "Profile."

2. Verify that users can update personal details, including email and preferences.

Expected Result: Users can edit their profile, and the changes are saved successfully.

7. About Us Page

Test Case ID: UI_008

Test Objective: Verify the functionality of the "About Us" section.

Precondition: User is logged into the app.

Steps:

1. Tap on "About Us" in the navigation menu.

2. Check if the content is displayed correctly.

Expected Result: The "About Us" section displays a summary about BUSzerk's mission and services.

8. Help & Support

Test Case ID: UI_009

Test Objective: Ensure that the Help section provides adequate guidance for users.

Precondition: User is logged into the app.

Steps:

1. Tap on "Help" in the navigation menu.

2. Ensure it contains sections such as:

Getting Started Guide.

FAQ.

Contact Support.

Expected Result: The Help section is intuitive and offers comprehensive support for users.

9. Legal & Policies Page

Test Case ID: UI_012

Test Objective: Verify that the Legal & Policies section contains accurate and comprehensive information.

Precondition: User is logged in.

Steps:

1. Tap "Legal & Policies" from the settings menu.

2. Check the displayed content for accuracy and completeness.

Expected Result: Users can access legal disclaimers, privacy policies, and terms of service easily.

10. Current Location & Destination Fields

Test Case ID: UI_004

Test Objective: Verify that location fields accept valid inputs and function correctly.

Precondition: User is on the home page.

Steps:

1. Enter the Current Location in the first field.

2. Enter the Destination in the second field.

3. Tap "Search Buses."

Expected Result: App accepts the input and returns relevant bus results based on realtime data.

11. Search Buses Button

Test Case ID: UI_006

Test Objective: Ensure the "Search Buses" button retrieves the correct information.

Precondition: User has entered a valid current location and destination.

Steps:

1. Input valid locations.

2. Tap "Search Buses."

Expected Result: The app fetches realtime bus data, **including Potential Waiting, Actual Count, Passengers getting off**, to predict the available seats for the selected route.

Conclusion

This UI/UX testing document ensures that BUSzerk's core features and functionalities are fully operational, providing users with a smooth experience.