Test Plan

Version: 1.0

Team Name:    Front End

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Section 1: Project

Create an application that helps with finding and providing rides. The testing scope includes functionality, usability, and performance to ensure a reliable and user-friendly experience.

Section 2: Requirements

1. Minimal coding errors when looking at each of the XML files.
2. All errors are fixed accordingly, or are in the process of being fixed.
3. Strings, file names, and colors are uniquely named and managed through resource files for ease of localization and management.
4. Buttons and links to other pages work accurately, navigating to the intended screens without issues.
5. The app maintains a clear, consistent structure across different screens, enhancing usability and user experience.

Section 3: Quality Model

The quality of the application is assessed based on the following characteristics defined in the Software Requirements Specification (SRS):

* **Functionality:** The app should meet all defined functional requirements, providing accurate ride matching and management capabilities.
* **Reliability:** The app should perform consistently under varying conditions, handling errors gracefully.
* **Usability:** The app should be intuitive, with a clear, navigable interface that caters to users with varying levels of technical proficiency.
* **Efficiency:** The app should manage system resources judiciously, ensuring quick load times and smooth operation.
* **Maintainability:** The codebase should be well-organized and documented, facilitating easy updates and maintenance.
* **Portability:** The app should perform well across a range of devices and Android versions.

Section 4: Test Cases

Test Case 1: Verify Account Deletion Method is Called

* **Objective**: Ensure that when the "Yes" button is clicked, the **deleteAccount()** method is invoked.
* **Method to Test**: **deleteAccount()**
* **Expected Result**: The method is called once the "Yes" button is clicked.

Test Case 2: Verify Account Deletion Cancellation

* **Objective**: Ensure that clicking "No" cancels the deletion process.
* **Method to Test**: Interaction with the "No" button.
* **Expected Result**: The deletion process is aborted, and the user remains on the page or is navigated back to the previous screen.

Section 5: Test Data

The testing environment will include:

* **Android Studio** for development and initial testing.
* **JUnit** for unit testing.

Section 6: Test harness

**Prefix:** TST

**Description:** [Brief description of the test procedure]

**Pre-requisites:** [Any setup or state required before testing]

**Category:** [Functional, Usability, Performance, etc.]

**Authors:** [Names of the test authors]

**Requirements/Story:** [Link or reference to the related requirements or user story]

**Test Steps:**

1. Step description
2. Expected outcome
3. Actual outcome
4. Pass/Fail

Types of Unit Tests:

* **Boundary Edges:** Testing for edge cases (e.g., 0, 1, \*, +/-).
* *Zero, One, Many Test (01):*\* Ensures inputs accept a range of values from none to many.
* **+/- Plus or Minus One:** Tests values just inside and outside of expected ranges.
* **Power of 2s:** Tests values that are powers of two, to catch binary-related errors.
* **Not the Data:** Inputs of invalid, incorrect, or nonsensical data to test error handling.
* **Thresholds:** Tests values just above and below certain thresholds or limits.
* **Boundary Testing:** Focuses on limit conditions, using a variety of data types and lengths to identify potential failures.

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 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
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 android:layout\_height="match\_parent"  
 android:paddingTop="?attr/actionBarSize">  
  
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 android:text="Yes"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@id/noButton"  
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