**TEST PLAN**

**Introduction:**

The purpose of this test plan is to outline the testing approach and methodology for the "Rent a car" functionality of <https://www.lyft.com/rider/rentals>. The testing team will be responsible for verifying the functionality, performance, and usability of the "Rent a car" feature to ensure that it meets the business and user requirements.

**Scope:**

This test plan will cover the testing of all features and functionalities related to the "Rent a car" feature of <https://www.lyft.com/rider/rentals>. The scope will include the verification of the user interface, booking process, payment options, and rental car availability.

**Product Analysis:**

**Customer** – General public who wants to avail a rental car service

**Usage** – Product provides a service to rent a car for respective price with additional terms and conditions.

**How this works** – Customer will be requested to mention the pick-up/drop off location and service dates. By submitting this, page will be navigated to selection where customer can select the car from the available list and proceed with payment confirmation.

**Testing Approach:**

The testing approach will be a combination of manual and automated testing techniques. The testing team will use a variety of testing tools and frameworks to ensure comprehensive testing coverage. The test team will also adopt a user-centric approach to testing, focusing on the user experience and satisfaction.

**Test Environment:**

The test environment will consist of the following components:

* Operating System: Windows 10
* Web Browsers: Google Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari
* Mobile Devices: Android and iOS devices (latest versions)
* Testing Tools: Selenium WebDriver, JMeter, Postman, BrowserStack

**Test Cases:**

The following test cases will be executed to validate the "Rent a car" functionality:

1. **User Interface:**

* Verify that the "Rent a car" feature is accessible from the main navigation menu
* Verify that the user interface is responsive and displays correctly on different screen sizes
* Verify that all UI elements such as buttons, links, and forms are working as expected
* Verify that the user can search for rental cars based on location, date, and time
* Verify that the user can filter search results by car type, price, and availability

1. **Booking Process (Functional):**

* Verify that the user can select a rental car and proceed to the booking page
* Verify that the user can enter the required details such as pickup location, return location, and rental duration
* Verify that the user can view the total cost of the rental, including taxes and fees
* Verify that the user can add additional options such as insurance, GPS, and child seats
* Verify that the user can confirm the booking and receive a confirmation email

1. **Payment Options (Functional):**

* Verify that the user can select from various payment options such as credit/debit card, PayPal, and Apple Pay
* Verify that the user can enter payment details securely and without errors
* Verify that the payment is processed successfully, and the user receives a payment confirmation email

1. **Rental Car Availability (Functional):**

* Verify that the rental car is available for the selected date and time
* Verify that the user is notified if the rental car is not available
* Verify that the user is presented with alternative rental cars if the selected car is not available

1. **Performance and Load Testing:**

* Verify that the "Rent a car" feature is responsive and fast
* Verify that the website can handle multiple concurrent users
* Verify that the website can handle peak loads without any performance degradation

1. **Accessibility Testing:**

* Verify that the colouring of the page meets the website accessibility standards
* Verify the text to speech feature works fine.

1. **Security testing:**

* Verify passing any SQL ingestion in any of the fields. For ex: 1=1, true..
* Verify if the data entered by the user are encrypted in the backend.

**Test Criteria:**

**Suspension Criteria** – When more than 40% of the test cases are failed, the active test cycle will be suspended.

**Exit criteria** – Run rate must be 100% and pass rate must be 95% without any critical functionality failures

**Test Deliverables:**

* Test Results/reports
* Defect Report
* Installation/ Test procedures guidelines
* Release notes

**Conclusion:**

This test plan outlines the testing approach and methodology for the "Rent a car" feature of <https://www.lyft.com/rider/rentals>. The test team will use a combination of manual and automated testing techniques to ensure comprehensive testing coverage. The test cases will validate the user interface, booking process, payment options, rental car availability, and performance and load testing. The goal is to deliver a high-quality product that meets the business and user requirements and provides an excellent user experience.