# Software Requirements Document for Ride-Booking Feature of Uber

#### 1. Introduction

This document presents a comprehensive description of the software requirements for the ride-booking feature of the Uber application. User wants to get a quick ride by Bike, CNG or Sedan whenever they will need it. This ride booking feature helps a user to select a ride according to his schedule, comforts, availability, affordability. This document provides a detailed account of the system's functionalities and specifies the requisite standards for development and implementation.

### 1.1 Purpose

The purpose of this Software Requirement Document (SRD) is to ensure the development of the ride-booking feature according to the specified requirements, providing a continuous and efficient experience for users wishing to book rides through the Uber app.

## 1.2 Scope

The scope surrounds the entire process of booking a ride, from selecting a destination to confirming the ride with a driver.

#### 1.3 Definitions, Acronyms, and Abbreviations

• ETA: Estimated Time of Arrival

UI: User InterfaceUX: User Experience

#### 1.4 References

- Uber App Design Guidelines
- Google Maps API Documentation

# 2. Overall Description

## **2.1 Product Perspective**

This feature is an integral component of the Uber application ecosystem, interfacing with the user's mobile device and the Uber backend system to facilitate ride booking.

#### 2.2 Product Functions

- Selection of ride destination
- Choice of vehicle type
- Viewing of fare estimates
- Confirmation of ride booking
- Real-time updates on driver status

#### 2.3 User Classes and Characteristics

- Regular Users: Users who book rides for personal transportation.
- Business Users: Users who book rides for professional purposes.
- **Uber Drivers**: Users who provide the transportation service.

### 2.4 Operating Environment

The ride-booking feature will function within the existing Uber application on both iOS and Android platforms.

### 2.5 Design and Implementation Constraints

- The application should be developed in Java for Android and Swift for iOS.
- The UI must be intuitive and accessible, conforming to accessibility standards.

#### 3. Stakeholders

- Passengers: Individuals using the app to book rides.
- **Drivers**: Individuals providing transportation services to passengers.
- **Uber Operations Team**: Responsible for overseeing the platform's operation and ensuring system efficiency and reliability.
- **Software Developers and Engineers**: Tasked with the development, deployment, and maintenance of the ride booking feature.
- Product Managers: Focus on the feature's alignment with market needs and user satisfaction.
- **Legal and Compliance Officers**: Ensure that the feature complies with all relevant laws and regulations.
- **Customer Support Representatives**: Provide assistance and support to both passengers and drivers.
- Security Specialists: Safeguard the application against cyber threats and protect user data.

## 4. System Features

# **4.1 Ride Booking Process**

# 4.1.1 Home Page

**Description**: Users begin the ride-booking process from the home page.

### **Functional Requirements:**

- Functional Requirement 1: The app shall display a list of ride options.
- Functional Requirement 2: Promotional content must be displayed without obstructing ride selection.

### 4.1.2 Destination Setting

**Description**: Users must be able to set a destination for their ride.

### **Functional Requirements:**

**Functional Requirement 3**: Users shall be able to input a destination manually.

**Functional Requirement 4**: The app shall offer a list of recent destinations.

#### 4.1.3 Ride Option Selection

**Description**: Users select from various ride options available.

### **Functional Requirements:**

**Functional Requirement 5**: The system shall display all available vehicle types (i.e. Uber Moto, UberX, Uber XL, Uber CNG) along with their estimated fares.

**Functional Requirement 6**: The fare estimates shall be calculated based on current location, destination, and traffic data.

#### 4.1.4 Ride Confirmation

**Description**: Users confirm their ride and receive details about their driver.

## **Functional Requirements:**

**Functional Requirement 7**: Upon confirmation, the app shall display the driver's details, including name, vehicle type, and ETA.

**Functional Requirement 8**: The system shall allow users to cancel a booking within a specified time frame without a penalty.

# 5. External Interface Requirements

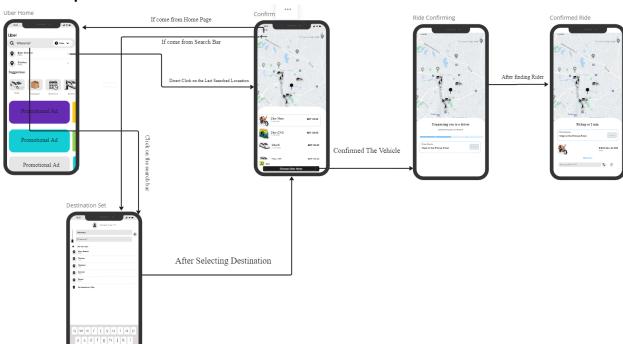
### 5.1 User Interfaces

The feature's UI must be consistent with the existing Uber design language and provide a responsive experience across various device resolutions.

#### 5.2 Hardware Interfaces

The application will interface with the device's GPS module for location services and the network module for data transmission.

### 5.3 Mock-up:



Mock-up of Ride Booking Feature

For better quality please Visit: Uber Ride Share Mok-up

### **5.4 Software Interfaces**

- The application will integrate with Google Maps for mapping services.
- The payment processing system for handling transactions.

# **6. Other Non-Functional Requirements**

# **6.1 Performance Requirements**

- The feature must support up to 1 million concurrent users.
- The system should process a ride request within 5 seconds 99% of the time.

## **6.2 Security Requirements**

The application must comply with GDPR and other relevant data protection regulations.

# 7. Documentation and Help

#### 7.1 User Documentation

A user manual shall be provided within the app, including FAQs and troubleshooting guides.

# **7.2 Testing Documentation**

A detailed test plan will be created, covering all functional and non-functional requirements.