CSE 470 - Software Engineering

QUIZ 3 - Summer 2023

Time: 30mins

Marks:15

NAME -

ID -

All questions are from C02

You are a software engineer working for a ride-sharing company that is developing a new mobile application. As part of the development process, you are tasked with designing the use cases for the application.

Question: Design a use case for the ride-sharing mobile application that includes the basic functionality of booking a ride, but also extends to additional features. Consider the following scenarios:

The basic functionalities of a ride-sharing app typically include:

1. User Registration and Authentication: Users should be able to create an account, log in securely, and manage their personal information.
2. Ride Booking: Users can request a ride by specifying their pickup and drop-off locations. The app should display available drivers nearby and provide an estimated time of arrival (ETA) for the ride.
3. Driver Matching: The app should have a system for matching riders with available drivers based on proximity, availability, and other factors.
4. Real-Time Tracking: Once a ride is confirmed, users should be able to track the location of their assigned driver in real time.
5. Fare Calculation: The app should calculate and display the estimated fare for the ride based on factors like distance, duration, and any applicable surge pricing.
6. Payment Integration: Users should have the ability to pay for rides within the app using various payment methods, such as credit/debit cards, mobile wallets, or cash.
7. Ratings and Reviews: After each ride, users should be able to rate their driver and provide feedback, helping to maintain service quality.
8. Trip History: Users should have access to their ride history, including details such as pickup/drop-off locations, driver information, and fare breakdowns.
9. Notifications and Alerts: The app should send notifications to users regarding ride status updates, driver arrival, payment receipts, and other important information.
10. Customer Support: Users should have access to customer support features, such as in-app chat or a helpline, to resolve any issues or report incidents.
11. In some situations, riders may want to schedule a ride in advance to ensure availability.
12. The ride-sharing company offers a premium service with luxury vehicles for customers who are willing to pay extra.
13. The application aims to promote a safe and secure riding experience. As an extension to the use case, how can you incorporate a panic button feature that allows riders to alert the authorities in case of emergencies?
14. **Draw the USE Case [10 marks ]**
15. **LIST 5 Non- Functional Requirements [5 marks]**