**Homework**

**A customer wants to make an app for taxi booking. It should enable passengers to send a ride request, book a ride, and pay with their credit card. On the other hand, the app should let the drivers see ride demands, accept ride requests, and complete the requested rides.**

**1. Ask clarifying questions (min 5).**

1. Should the app allow passengers to book a trip in advance?

2. Does the application have to display the route of the trip on the map for the passenger in real-time?

3. Does the application have to have a system of accumulating bonuses for the travel passenger?

4. Should the application allow the passenger to choose the method of payment (card, cash, or cashback)?

5. Should the app allow you to contact the driver (call or chat)?

6. Should the application allow you to contact a passenger (call or write to chat)?

7. Should the application allow you to choose how to specify the address (label on the map, by determining the geolocation or setting the address manually)?

8. Should the application provide an opportunity to assess the quality of the trip?

9. Should the app have a rating system for both drivers and passengers?

10. Should the application allow you to leave feedback on the trip?

11. Should the application allow the passenger to see the driver's rating?

12. Should the application allow the driver to see the passenger's rating?

13. Should the application allow you to call or write to support?

14. Should the application allow you to select multiple addresses along the route?

15. Should the application allow you to choose the class of car?

16. Should the app have a travel history for passengers?

17. Should the app have an auto-capture feature for drivers?

**2. Write possible User Stories and prioritize them (min 10).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | As a | I want to | So that | Priority |
| 1 | Passenger | Add feedback on the trip | Notify other users | Lower |
| 2 | Driver | Introduce a system of rewards | Motivate the work of drivers | Medium |
| 3 | Passenger | Follow my route on the map | I could control my route | Lower |
| 4 | Passenger | Book my trip in advance | Make sure the car arrives on time | High |
| 5 | Driver | See the passenger's rating | Make sure the passenger is decency | Medium |
| 6 | Passenger | See the driver's rating | Make sure my trip is safe | Medium |
| 7 | Passenger | See my travel history | Have the opportunity to repeat the trip | Lower |
| 8 | Passenger | Be able to choose the class of car | Make my trip more comfortable | Medium |
| 9 | Passenger | Have the opportunity to accumulate bonuses | I can pay for the trip in the future | Lower |
| 10 | Passenger | Choose the method of payment | Without cash was able to pay by card | Medium |
| 11 | Driver | Contact the passenger | Be able to specify the location of the passenger | Medium |
| 12 | Passenger | Contact the driver | Be able to specify the location of the driver | Medium |
| 13 | Passenger | Choose how to specify the address | If you do not know where you are, be able to determine the address using geolocation | High |
| 14 | Passenger | Call or write to support | Be able to report a problem | Medium |
| 15 | Passenger | Select multiple addresses along the route | Be able to visit several addresses during the trip | High |

**3. Write a Use Case.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use case Name** | | **Book the trip** | |
| Use case description | | The passenger books the trip in advance so as not to be late for the meeting | |
| Actors | | Passenger, system | |
| Pre-Condition | | The app must be connected to the network  The user must be registered | |
| Post-Condition | | After you have booked a trip, you receive a message about the car brand and the time of arrival car | |
| **Main Scenarios** | **Serial No** | | **Steps** |
| Actors/Users | 1 | | Specify the place from where and what time to pick up the passenger |
|  | 2 | | Indicate the passenger's place of arrival |
|  | 3 | | Booking the trip on the app |
|  | 4 | | Receive order confirmation notification |
| Extension | 1a | | Booking the trip in the application  confirmation does not come |
|  | 2a | | Booking the trip in the application  The system sends a message that no drivers were found |

**4. Write a functional requirement for one story.**

A passenger should be able to save the credit card to the profile.

The system should make action to try to find a driver

Passengers should be able to select start\destination address

The system should be able to charge money from the user's payment method