**Prototype Requirements**

**P07:Hitcherr**

**<team member names & ids>**

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| --- | --- |
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# Introduction

The project hitcher (hereby referred to as system) has been created keeping in mind the global fuel hike. Social media and general surveys suggest that people prefer carpooling over long distances in order to save travel cost. A cab hailed from an application may cost a customer over PKR 1000 for a distance of more than 25 kilometers. This application aims to reduce that cost by accommodating multiple customers looking to commute across the same route.

The niche customer base for this project comprises of people who commute over long distances everyday and wish to save on cost. According to financial classes, this application aims to accommodate lower and middle class customers. A survey at LUMS showed that people who commute from Bahria Town and Johar Town prefer a carpooling service due to the high cost of commute.

Apart from the major objective, the application serves to provide relief to the drivers and customers in a plethora of other forms. The application aims to provide drivers an incentive to drive more by providing them with 100% of the receipts from each ride after a certain threshold of rides per day has been attained. This was brought up by drivers who disliked the fact that they had to pay a cut to the company for every ride that they completed. This also brought a culture of drivers canceling rides and completing rides unofficially.

This culture brought a problem of security for customers as they could not be tracked by the ride hailing companies and in turn could not complain if something went wrong. To bring end to end security, we introduced a feature of QR codes. The rider must scan the QR code on the driver’s phone to start a ride that would act as an acknowledgement to start a ride and would provide a timestamp for accurate fare calculations.

In conclusion, our application aims to overcome the problems faced by drivers and customers who use other ride hailing services and we believe that this will provide a more satisfactory service.

# Instructions

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* Select a subset of system requirements and implement them. The end result of the prototype phase must be a working system with the selected set of requirements implemented completely. No mock-up screens will be accepted.
* While you may choose to implement Login/Logout functionality for prototype phase, you must also implement some core/business use cases of the system.
* Select the set of requirements keeping in mind that you have a total of three weeks for prototype development. I would ask you to add more requirements if I think that you can do more in the given duration.
* The prototype must be built using the tools and technologies which you have selected for your system development.
* By the end of the prototype development phase,
  1. You should have learnt development tools and technologies.
  2. You should have a clear idea of detailed technical architecture of your system. After the prototype phase, you will be required to define detailed technical architecture of your system.
* **Prototype Submission**
  1. Properly tested **working prototype** deployed on an online hosting platform.
  2. **Code** with proper comments uploaded in “prototype” folder of your project’s Github repository.
  3. **3-4 minutes video** that explains the functionality of your prototype—to be uploaded in “prototype” folder of your project’s Github repository.

# List of Requirements for Prototype

<List down the requirements selected for prototype development.>

|  |  |
| --- | --- |
| **Requirements** | |
| **Sr#** | **Requirement** |
| 1 | All the Users will be able to Login to the system |
| 2 | Drivers will not be able to access their account until admin approves |
| 3 | Users will be able to sign up to the system |
| 4 | Users will be able to view their ride history |
| 5 | Drivers will be able view the rides they have offered along with their ratings and their revenue |
| 6 | Admin will be able to approve or reject the driver application |
| 7 | A user will not be able to make a second account using the same email address |
| 8 | A driver will not be able to log in to the user’s section and a user will not be able to log in to the driver’s section |

# Where to Access the Prototype

The React web app for admin portal can be accessed at

<https://ride-sharing-app-2a212.web.app/>

The flutter android app for users and drivers can be accessed via the apk uploaded in the prototype folder called “apk-release.apk”.

# Review checklist

Before submission of this deliverable, the team must perform an internal review. Each team member will review one or more sections of the deliverable.

|  |  |
| --- | --- |
| **Section** **Title** | **Reviewer Name(s)** |
| 3 | Ebad Ur Rehman |
| 3 | Irtza Tariq |
| 4 | Mustafa Afzal |
| 1 | Nashrah |
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