



# Rapido SRS - Software Requirement Specification

Software Engineering (Lovely Professional University)

# Rapido Software Requirement Specification

## **Rapido Project a kind of Ride Service Management System**

### **Introduction**

This chapter is cover the content that is include the purpose or use of Rapido Ride, scope and advantages, disadvantages of Rapido.

### **What is Rapido?**

Rapido is an android application which will works like Ola and Uber. This application will provide services to passengers and drivers. Rapido connects passengers and drivers using GPS system. Anyone who has Motorcycle, Scooter or Rikshaw type of vehicle can register on this application. This app will support only these two types of vehicles. This application enables passengers to order these kinds of vehicles with their Smartphone. The main objective of this application is that drivers online register their vehicles by providing their essential information and then check their nearest pick and drop.

The application runs on android devices and the second one is server on Nosql database. Android section has two applications. One is master refers to driver and other one is client refers to passengers.

If the driver accepts booking then the server will send order confirmation to the passenger application

This application is managing passengers' booking in quick and easy way with shortest time possible. With one click on the button you can order a vehicle if you are a passenger. With another click you accept or decline requests if you are a driver. No third party to be added to control this work.

Some times you don't need to order a four-wheeler taxi because you are traveling alone and it can cost much. But with this application, you can order singular passenger service which is quick to arrive and fast to your desired location and extremely cheap which makes it best for lone travel. This service is driver friendly because the registerable vehicles are easier to afford hence creating more job opportunities.

### **Problem Statement**

Passengers used to order a car-taxi for even a short distance travel which took more time and money if they were traveling alone. This is accessible in areas where cars can't go . It can also be established in small cities. This type of vehicles still doesn't have familiarized online ride service.

## **User Requirements**

### **All Users should**

1. Interact with the application
2. Login to their accounts using their email and password provided
3. Be able to logout from their profiles.

### **Admin should**

4. Be able to add, delete and modify database
5. Be able to add and remove users and set authority
6. Be able to monitor the system

### **Admin-Managers**

7. Be able to view all drivers
8. Be able to view the list of customers
9. Be able to view all the customer request
10. Be able to view all workers available
11. Be able to create, edit and delete information
12. Be able to search for information
13. Be able to notice the editing"s and changes made by the users.

## **Functional Requirements.**

14. The Application logo at the start of application.
15. Every online booking needs to be associated with an account
16. One account cannot be associated with multiple user.
17. Search results enables users to find the most recent and relevant booking rides options.
18. System enables users to book / pay for their rides only in cash or credit card.
19. The application keeps track of all processes and changes happening to the data between login and logout times of the users.
20. The application enables the users to logout after using the application when the user clicks on the logout button.

## **Non Functional Requirements**

### **Usability**

The Application is easy to use by every user. In order to accomplish this objective, the system is having a simple and well-designed interface.

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### **Accessibility**

The Application is made accessible to the people who live everywhere in India. Anyone can use the system regardless of the location and can get the information they acquire.

### **Performance**

The performance of the application is fast and efficient in adding information of drivers. The system is available for user in real time and always up to date.

### **Speed**

The application response time is a significant requirement because the action cannot be postponed or delayed. The application is fast enough to satisfy the user's needs and does not waste their time.

### **EFFICIENCY**

Efficiency of any system is concerned with the minimum processing time as well as the optimal use of system resources in designing the proposed systems. Our android application is efficient in using processing resources. It can be efficiently run on all android devices.

### **Availability**

The Application operates 24 hours a day.

### **Friendly GUI's**

The users of this application have different types of people and different levels of technical skills, therefore the application is understandable by all the users. Consequently, the Application provides an easy to use, friendly Graphical User Interface (GUI).

### **Security**

Data inserted by user is secured and saved by this application, and is redundant, in order to perform the exact action in specified situation.

### **Maintainability**

The application is maintained in order to perform the best of its ability.

### **Extensibility and Stability**

The application is flexible enough to allow improvements for the future and is able to adapt any additional future change in activities; the application components can be modified for more changes and features allow the addition of new features without disturbing the main functionalities of the application.

### **Disaster Recovery**

The application is able to recover from an unsuitable problem .and backs up data.

### **Error Handling**

The application is able to handle unexpected errors quickly and easily.

Data Flow Diagram