Table of Contents

1. Introduction

This section gives a scope description and overview of everything included in this SRS document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the "Taxi Reservation System" (TRS) software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications.

1.2 Product Scope

The "Taxi Reservation System" is an internet-based mobile application which will provide people an online interface to reserve taxi online. Now, the people don't have to go to taxi stand. This application also provide you to create, edit and delete order. The application should be free to download from either a mobile phone application store or similar services.
The cab driver receive your order on his mobile phone and pick you up from your location and drop you to your destination. This will save time, if you are busy in many thing and don't have enough time to go towards taxi stand.

1.3 Definitions, acronyms, and abbreviations

Table 1 – Definitions

Term	Definition
User	Someone who interacts with the mobile phone application
Admin/Administrator	System administrator who is given specific permission for managing and controlling the system
Taxi Owner	Someone who owns taxi and wants his taxi to be part of the application
Web-Portal	A web application which present special facilities for Taxi owner
GPS	Global Positioning System
Application store	An installed application on mobile phone which helps user to find new compatible applications with mobile phone platform and download them from Internet
Stakeholder	Any person who has interaction with the system who is not a developer.

1.4 References

No References is there used in this document.

1.5 Overview

In this session first of all explain the purpose of generating this SRS, the intended audience for which it is written. The next is scope means what is in and what is out. It explain the basic and necessary things with the set of requirements. And then defines the acronyms and abbreviations in which we defines all the terms we are going to use and also the abbreviations. After that we give the reference work in our SRS. At last the over view of session.

2. Overall Description

This will explain all the factors which can affect the software.

2.1 Product Perspective

It is a new self-contained product.

Product Functions
As it is an online Application or Software through which people can reserve cab online. So, the major functionalities of this Software are.

- The very first function of this software is the user should get "Register" to TRS.
- Then the user will able to "login" to his or her profile.
- After that the user should be able to place an order to reserve cab. All the information should be provided to place order. Like time or date, pick up, drop-off location specify etc.
- User gets conformation of order
- User can get information about how system works.
- Which services your system is providing.
- All the price list of your services you provides.
- An option of "Help" should be provided. If user face any kind of issue.
- User can leave a message. If there is some issue or complain.
- User will be able to edit or delete his or her orders that he placed.
- User should be able to edit his or her profile.

2.2 User Classes and Characteristics

There are three types of users that interact with the system: users of the mobile application, Taxi owner and administrator. Each of these three types of users has different use of the system so each of them has their own requirements.

The mobile application users can only use the application to place an order.
The administrators interact with the web portal. They are managing the overall system so there is no incorrect information within it. The administrator can manage the information for each cab as well as the options for

both the mobile application users and the Taxi owners and also responsible for assigning cab to a particular cab driver

The Taxi owners will use the mobile application. He is going to get alert on his mobile that a particular user requested for a cab and if a particular taxi drive have a nearest location to that user that cab is going to assign to that particular user.

2.3 Operating Environment

As it is an online mobile application. So, user can use this application anywhere in the city.

- User should have an Android or IOS mobile.
- User must have minimum version of 2.3 operating system.
- User should be connected to internet while using this application.

Design and Implementation Constraints

The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them.

The Internet connection is also a constraint for the application. Since the application fetches data from the database over the Internet, it is crucial that there is an Internet connection for the application to function.

2.4 User Documentation

There will be a sign of question mark (?) and phone number of the taxi driver. If any kind help user needs.

2.5 Assumptions and Dependencies

One assumption about the product is that it will always be used on mobile phones that have enough performance. If the phone does not have enough hardware resources available for the application, for example the users might have allocated them with other applications, there may be scenarios where the application does not work as intended or even at all.

Another assumption is that the GPS components in all phones work in the same way. If the phones have different interfaces to the GPS, the application need to be specifically adjusted to each interface and that would mean the integration with the GPS would have different requirements than what is stated in this specification.

3. External Interface Requirements

This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

3.1 User Interfaces

A first-time user of the mobile application should see the log-in page when he/she opens the application, see Figure 1. If the user has not registered, he/she should be able to do that on the log-in page.

If the user is not a first-time user, he/she should be able to see the main page after login where they can place order, see Figure 2.

Every user should have a profile page where they can edit their e-mail address, phone number etc see Figure 3.

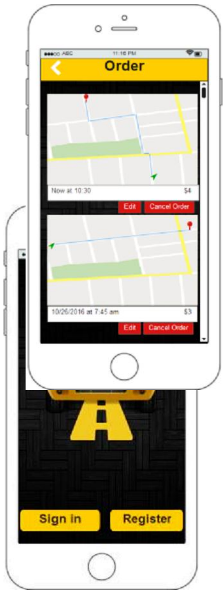


Figure 1 - Login page Screen

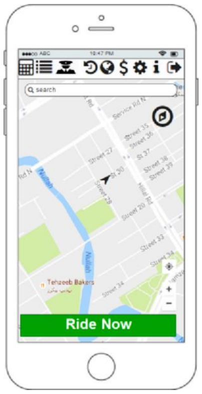
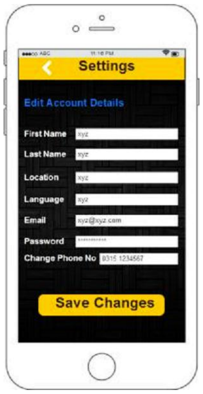


Figure 2 – Home



Edit Account Details

First Name xyz
Last Name xyz
Location xyz
Language xyz
Email xyz@xyz.com
Password ***********
Change Phone No 0315 1234567

Figure 3 – edit profile

User can calculate fare from desired location to destination. See figure 4.
User can see the price list. See figure 5.
User can see nearest available cab. See figure 6.

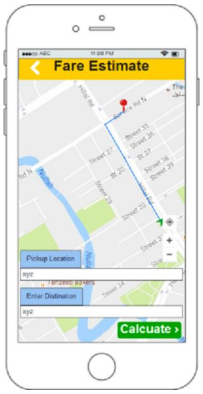
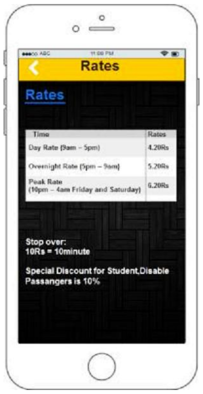


Figure 4 – Fare Calculator



Rates

Time	Rates
Day Rate (9am – 5pm)	4.20Rs
Overnight Rate (5pm – 9am)	5.20Rs
Peak Rate (10pm – 4am Friday and Saturday)	6.20Rs

Stop over:
10Rs = 10minute

Special Discount for Student,Disable Passangers is 10%

Figure 5 – price list

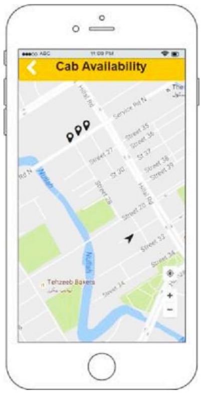


Figure 6 – Cab Availability

User will be able to edit or delete his or her orders that he placed. See figure 7.

Figure 7 – your orders

3.2 Hardware Interfaces

Since neither the mobile application nor the web portal have any designated hardware, it does not have any direct hardware interfaces. The physical GPS is managed by the GPS application in the mobile phone and the hardware connection to the database server is managed by the underlying operating system on the mobile phone and the web server.

3.3 Software Interfaces

The software use are

- Operating system.
- TRS application.

3.4 Communications Interfaces

The communication between the different parts of the system is important since they depend on each other. However, in what way the communication is achieved is not important for the system and is therefore handled by the underlying operating systems for both the mobile application and the web portal.

4. System Features

This section includes the requirements that specify all the fundamental actions of the software system.

4.1 System Feature 1: Login.

4.1.1 Functional Requirements

User must login to the system first and it describe how a user logs into the system. It is of high priority.

Primary actor: user, admin

Pre-condition: none or user is already register

Post condition: if the use case was successful the actor is now login to the system. If not the system state is unchanged.

Basic flow: The use case starts when the user or actor wishes to login to the system

1. The system requests the actor enter his or her name and passwords.
2. The actor enter his or her name and passwords.
3. The system validates the entered name and passwords and logs the actor into the system.

Alternative flow:

2a. Invalid name and password.

2a.1 System display an error message. Please reenter the name and passwords.

4.2 System Feature 2: Place an order

4.2.1 Functional requirements:

User should be able to place an order.

Primary actor:

User.

Precondition:

User should be login.

Post condition:

If the use case was successful the user placed an order. If not the system state is unchanged.

Basic flow:

The use case starts when the user or actor wishes to place the order.

1. The system requests user to place an order.
2. The user places an order.
3. The system validates the data entered by user and gives the message order is placed.

Alternative flow:

3a. Invalid date and time.

3a.1 system displaces an error message. Please reenter the date and time or address.

4.3 System Feature 3: Delete an order

4.3.1 Functional requirements:

User should be able to delete an order.

Primary actor:

User.

Precondition:

User should be login.

Post condition:

If the use case is successful the user may delete an order. If not the system state is unchanged.

Basic flow:

The use case starts when the user or actor wishes to delete the order.

1. The system requests user to delete an order.
2. The user deleted an order.
3. The system validates the data entered by user and gives the message order is deleted.

Alternative flow:

a. Invalid command.
b. System displays an error message.

4.4 System Feature 4: Edit an order

4.4.1 Functional requirements:

User should be able to edit an order.

Primary actor:

User.

Precondition:

User should be login.

Post condition:

If the use case is successful the user may edit an order. If not the system state is unchanged.

Basic flow:

The use case starts when the user or actor wishes to edit the order.

1. The system requests user to edit an order.
2. The user has edited an order.
3. The system validates the data entered by user and gives the message that order has been edited.

Alternative flow:

a. Invalid command
b. System displays an error message.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The application that we are going to develop will be used by many peoples so it is expected that it contains all the functionalities.
The application should be fast and there should be no complexity in its design.

5.2 Safety Requirements

The application that we are going to develop should be safer in all aspects.
The application should be safer to use.
A backup of the user data such as history should be maintained in case of phone lost.

5.3 Security Requirements

The application contains the personal data of the members so its security should be high. The application should provide a better way of user authentication.

5.4 Software Quality Attributes

Additional characteristics are:

1. Correctness
2. Reliable

The system provided correct information such customer pickup drop-off address.
The system should be reliable in all performing all the functions and trusted by user.

6. Other Requirements

There are no other requirements.

Appendix A: Glossary

The following are the list of acronym used in the document.

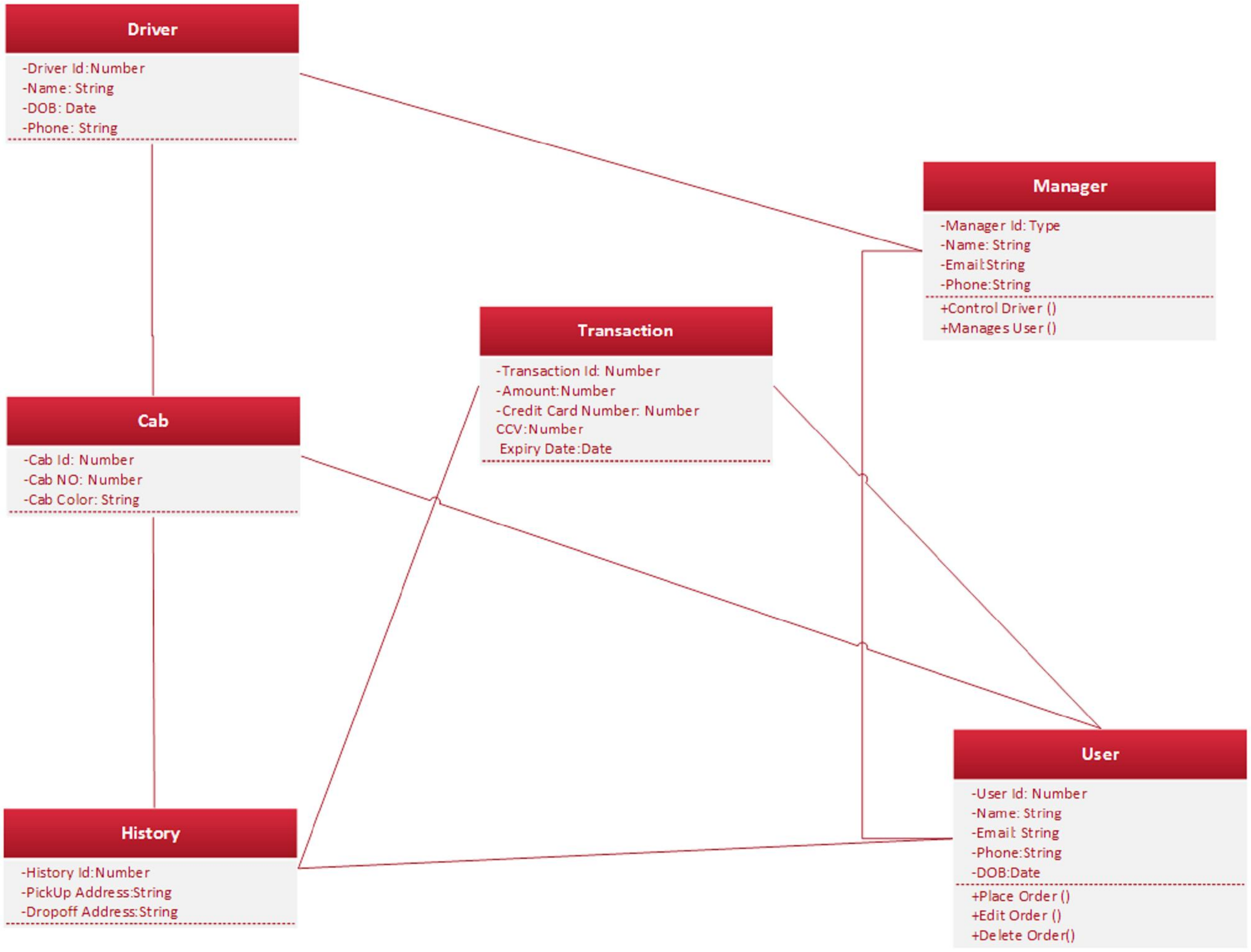
Taxi Reservation: User book taxi

Use Case: A broad level diagram of the project showing a basic overview.

Prototype: A first typical or preliminary model of something

SRS: Software Requirement Specification

Appendix B: Analysis Models



Appendix C: To Be Determined List

There is no To Be Determined List.