CAB BOOKING SYSTEM

Software Requirement Specification (SRS) Document

Sprint Implementation

Project Timeline: 06-12-2022 to 13-12-2022

INDEX

INTRODUCTION

Transport is an integral part of our social living. The modern society cannot run without transport facilities. There are many companies who give transport services to the individual and corporate clients. In the current system, the client first contacts with the transport company for getting transport service but MyCab will solve this and a person can book a cab directly without contacting anybody.

MyCab booking system is the online service which will automate the process of booking a cab and will facilitate both the user and the driver with reduced time and efforts. First the

company will register his information and the vehicles to the system. Then the user can book or schedule the cab on his required date and time, providing all necessary information. The fare will be calculated and user should confirm it. Then the driver will serve the client on the specific date and time. It will ease the transportation. The introduction of the software requirements specification provides an overview of the entire software .The entire SRS description purpose, scope, tools used and basic description.

PURPOSE

The purpose of this SRS document is to specify software requirements of the Cab Booking System. It is intended to be a complete specification of what functionality the system provides. The main purpose of the system is to automate the process of booking a cab online. Specific design and implementation details will be specified in a future document.

Intended User :-

1.Cab Driver

2.User

Since this a general-purpose software thus any one can access it.

PROJECT SCOPE

This project's aim is to automate the system, calculating the fare, collecting fare, collecting all necessary information of the driver and user and then further serve the customer. The data used by the system is stored in a database that will be the centre of all information held about driver and user. The base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

Definition and Acronyms:-

1. User: The one who is going to use this software for booking.

2.Cab Driver: The one who will use this service to provide Cab facility to user.

Overall Description

This program is designed to assist users and cab drivers whose line of business deals with private transport to manage their participants data in an orderly manner. It shall perform the following functions:

1. User and cab driver should be able to login into the app.

2. User should be able to enter source and destination.

3. User should be able to choose Car size and model.

4. Predicated fare should be calculated and displayed to the user.

5. Once booked, a message should be send to the cab driver.

6. User should be able to see cab driver information and cab details.

7. Cab driver should be able to accept and reject the request.

8. User should be able to cancel the ride.

9. Once the journey is complete (simulate it randomly), show the final fare.

10. Record all the history of rides of customer.

11. Handle data and errors properly. Show appropriate messages to user.

12. Display good input, output messages and reports in proper format.

13. Security features should be implemented where ever possible. For example user passwords can be stored in encrypted format.

Assumptions and Dependency: -

- User has the latest version of Operating System installed.
- Both user and driver should have internet connection.
- The service is used preferably in mobile phone.

System Features and requirements:

1. Functional Requirements

R1 : Registration Description : To enter into this App, user has to register himself first. Requirements of registration are Name, Contact number, Password.

Input : User Details Output : Registration Done Processing : User details are checked with database. Password constraint is checked as per validation.

R2: User Login Description : The system provides facility to login into the system.

Input : Enter username and password Output : User Profile page Processing : The system will check the input of user and if valid then login is done. Otherwise user will be asked to re-enter the username and password.

2. When user login MyCab displays “User Screen”

----------User Screen----------

1. Schedule Trip

2. Book Trip

3. Check Cab Driver Details

4. Check Cab Details

5. Check Bill

6. Make Payment

0. Quit

Enter your option :

option = 1 (Schedule Trip)

MyTrip asks source and destination of the trip, number of seats required

All available car sizes and car models are displayed

User selects car size and car model

All these details are stored in “ScheduledTrips.txt” along with username and date.

This is comma separated file.

option = 2 (Book Trip)

All scheduled trips of user whose fare is provided by cab driver are displayed. User

selects trip to book from the list.

All details are stored in “BookedTrips.txt” along with username and date. This is

comma separated file.

Corresponding entry of trip is deleted from “ScheduledTrips.txt”.

option = 3 (Check cab driver details)

With this option user can check cab driver details of the trip he/she booked.

option = 4 (Check cab details)

With this option user can check cab details of the trip he/she booked.

option = 5 (Check Bill)

With this option user can check bill of the trip he/she booked. Bill Amount = Fare entered by cab driver * number of seats required.

Option = 6 (Make Payment)

Bill is displayed to user for completed trip. Payment details such as mode of payment, credit card number, ..., bill amount, status of payment will be stored in “payments.txt” file.

3. When cab driver logins in, MyCab displays “CabDriver Screen”

---------- CabDriver Screen----------

1. Update Profile

2. Manage Car Details

3. Check Scheduled Trips

4. Check Booked Trips

5. Mark Completed Trips

0. Quit

Enter your option :

option = 1 (Update Profile)

Details entered by cab drivers during registration can be modified using this option. “cabDrivers.txt” will be updated with new details.

option = 2 (Manage Car Details)

Cab driver will modify car details with this option. Details are stored in CabDetails.txt along with cab driver ID.

option = 3 (Check Scheduled Trips)

Display all scheduled trips whose date = today and time = current time. Cab

driver will select the trip to book and will provide fare. Cab drivers ID, Car ID and fare details will be updated in “BookedTrips.txt”.

option = 4 (Check Booked Trips)

This option will display status of booked trip. If it is taken by user then driver is proceed to user location.

option = 5 (Mark Completed Trips)

Booked trip will be marked as completed. The trip will be removed from BookedTrip.txt and will be added to CompletedTrip.txt along with user ID, Cab driver ID, Payment ID, amount etc..

System Requirements:-

Tools to be used:

- C Language
- C File Handling

Software Requirement:

Vi Editor, ctags, splint, valgrind, gcc, make, git account

System Features: -

- Support-ability: The maintainability is easy for the system.
- Design Constraints: The system is built using only C language.
- Reliability & Availability: The system is available when the user is requests for service. The system is available 24/7.
- Performance: The system will work on the user’s terminal.