

## **ZoomCar Car Booking system Problem Description:**

ZoomCar car booking system is a computerized system used to store and retrieve information about the bookings and availability of cars. It provides a secure and easy way to book cars. The purpose of it is to provide the information of availability of cars, types of cars, booking a car, billing and cancellation of booked cars. The admin can manage cars, add new cars and delete any outdated cars from the database. The website provides instructions to the customers on how to book cars, search cars, cancel bookings.

### **Functional Requirements:**

#### **FR1: Login**

##### *FR1.1: Customer Login*

The system displays the log-in page. The customer enters his login Id with password. The customer clicks on the confirm button. The system checks that all of the required information was entered. If the entered information is wrong then system asks customer to reenter the details. The system validates the entered information.

##### *FR1.2: Admin Login*

The Admin clicks the log-in button on the Home Page. The system displays the log-in page. The Admin enters his login Id with password. The admin clicks on the confirm button. The system checks that all of the required information was entered. If the entered information is wrong then system asks Admin to reenter the details. The system validates the entered information against the tables stored in the database.

#### **FR2: Car selection and booking**

##### *FR2.1: Search car*

The customer already has navigated to the main options screen. The customer enters the details of source station, destination station to search cars on that route. The customer also enters the type of car- hatch back, sedan etc he wants to book. Customer enters all the information- name, age, number of passengers, source station, destination station. The customer can use help facility to know how to fill the information, HelpFacility usecase is carried out. He clicks the "Search" button. If all the required information is not entered by the customer then the system highlights the blank fields to be entered. After searching, the System displays a list of all the available cars that matches the customer's input, each car in the list has an associated price.

##### *FR2.2: Book a car*

Customer must have searched for the required car. System displays a screen showing the details of the booked car. The customer verifies the details. He clicks the "Submit" button. System displays a screen with input fields for: a card number, cardholder name, card expiration date. Customer enters the details for the card number, the cardholder name, the card expiration date and he clicks the "Submit" button. If customer is stuck in the process then he can use help facility to know how to fill the information, HelpFacility usecase is carried out. System displays the success message.

##### *FR2.3: Cancel a booking*

A booking has already been made and customer must have successfully navigated to the main options screen. Customer Selects the "Cancel booking" option. System displays a screen with an input field for the reason of cancellation. He clicks the "Submit" button. The customer can use help facility, HelpFacility use case is carried out. System displays the details of the booking. Customer Selects the "Process Cancellation" option. System displays a message "Booking successfully cancelled" and then system displays the main options screen again.

### ***FR3: Help facility***

The customer clicks on help facility. The system displays a list of facilities. The customer clicks on the type of help required. The system shows the instructions.

### ***FR4: Manage Cars***

The admin manages the car. The system asks Admin whether he wants to Add a new car or Remove an outdated car from the system. The Admin selects to add car, AddCar usecase is carried out. If Admin selects to remove an outdated car, then RemoveCar usecase is carried out.

#### ***FR4.1: Add new Cars***

The Admin already has navigated to the main options screen. The system validates the log in information. The admin selects on adding the car. The system asks admin to fill all the required information for adding a car in the database- car model, distance travelled so far, date of purchase, type of car etc . The admin fills the information. The system displays a success message on the screen. If all the required information is not filled by Admin then the system shows an error message.

#### ***FR4.2: Remove outdated Cars***

The Admin already has navigated to the main options screen. The system validates the log in information. The admin selects to remove car. The system asks admin to fill all the required information for removing a car in the database. The system asks admin to fill all the required information for removing a car in the database- the reason of removing that car, car model, distance travelled so far, date of purchase, type of car etc . The system displays a success message on the screen. If all the required information is not filled by Admin then the system shows an error message.

