**Software Requirements Specification (SRS)**

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**1. Introduction**

The Car Rental System is a console-based application written in Java, aimed at facilitating the rental and return of cars by customers. The system provides functionality for customers to rent available cars for a specified number of days and return them once the rental period is over.

**2. Functional Requirements**

**2.1 Renting a Car**

The system shall display a menu with options to rent a car, return a car, or exit the program.

Upon selecting the option to rent a car, the system shall prompt the user to input their name.

The system shall display a list of available cars to choose from.

The user shall input the car ID and the number of days they wish to rent the car for.

The system shall calculate the total rental price based on the selected car and rental duration.

The user shall confirm the rental transaction.

Once confirmed, the system shall mark the selected car as unavailable for rental.

**2.2 Returning a Car**

Upon selecting the option to return a car, the system shall prompt the user to input the car ID of the car being returned.

The system shall mark the returned car as available for rental.

The system shall display a message confirming the successful return of the car.

**3. Non-Functional Requirements**

The system shall handle input validation to ensure correct user input.

The system shall handle errors gracefully and provide informative error messages to users.