

Document for my program.

This program simulates a car rental system where customers can register, rent cars, and return them.

It consists of three main classes:

- Car,
- Customer,
- RentalAgency

each responsible for different functionalities of the system.

Class Car

Methods:

carRental(): Displays the main menu for car renting and handles user choices to rent or return cars.

RentCar(): Allows the user to select a car type, specify rental hours, and process payment.

ReturnCar(): Allows the user to return a rented car by entering the car's name and provides details about the car.

Class Customer

Methods:

customerManagement(): Handles customer registration by collecting personal details and saving them.

Displays a summary after successful registration.

Class RentalAgency

Methods:

Agency(): Displays available cars for rent and provides information about each car, including ID, make, model, year, and rental cost.

Col (Main Class)

The entry point of the program.

It provides a main menu for accessing the rental agency, customer registration, and car rental services.

Key Features

Users can rent cars by selecting from a variety of types.

Users can return cars and receive a summary of the car's details.

Test File

Test Cases

(i).Test Customer Registration

Input:

Name: Collo

ID Number: 12345

Email: Collo@gmail.com

Phone: 9876543210

Car Type: BMW/Lamborghini

Expected Output:

Personal detail summary will be display



(ii).Test Car Rental

Input:

Choose to rent a car.

Select Car Type: BMW

Enter rental hours: 2

Payment: 7156.69 (valid payment)

Expected Output:

Displays total cost and confirms successful payment.

(iii).Test Car Return

Input:

Choose to return a car.

Enter car name: BMW

Expected Output:

Displays car summary details.

(iv).Test Invalid Inputs

Input:

Invalid car type selection: 8

Expected Output:

"Invalid Choice" message.

(v).Test Payment Validation

Input:

Rent a car, enter payment: 5000 (invalid)

Enter payment: 8000 (valid)

Expected Output:

Prompts to enter a valid amount before confirming payment.

