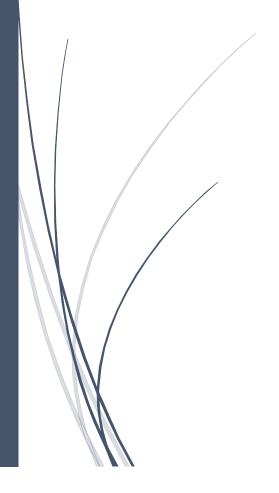# Test Cases Report

Test Cases for CRMS

Zaim Abbasi

22I-2462

SE-B

Contents

Test Case 1: Add new cars of different types.

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 01	To verify that a new car can be added successfully to the Car Rental Management System.	None.	1. Choose option 1 to add a new car. 2. Enter car type as "1" for Compact car. 3. Enter a unique car ID (e.g., "CAR001"). 4. Enter car make (e.g., "Toyota"). 5. Enter car model (e.g., "Camry"). 6. Enter car year (e.g., "2022"). 7. Enter car plate number (e.g., "ABC123"). 8. Confirm the successful addition of the car.	Option: 1 Car Type: 1 Car ID: 001 Make: Toyota Model: Camry Year: 2022 Plate: ABC123	System displays "Car added successfully."

Test Case 2: Add new renters of different types.

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 02	To verify the successful addition of a new Regular renter.	None.	1. Choose option 4 to add a new renter. 2. Enter renter type as "1" for Regular renter. 3. Enter a unique renter ID (e.g., "REG001"). 4. Enter renter name (e.g., "Zaim"). 5. Enter renter email (e.g., "zaim@gmail.com"). 6. Enter renter phone number (e.g., "0301-8116328").	Option: 4 Renter Type: 1 Renter ID: 001 R. Name: Zaim Email: zaim@gmail.com Phone: 0301-8116328	System displays "Car added successfully."

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
			7. Enter renter address (e.g., "123,MainSt"). 8. Confirm the successful addition of the renter.	Address: 123,MainSt	

Test Case 3: Remove a renter after they return the car.

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 03	To verify that a renter can be successfully removed from the Car Rental Management System after returning all rented cars.	Renter has returned all the cars he rented cars.	1. Choose option 6 to remove the renter. 2. Enter the renter ID. 3. Confirm the successful removal of the renter.	Option: 6 Renter ID: 001	System displays "Renter removed successfully."

Test Case 4: Renting a Basic Car to a Regular Renter (No Insurance)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 04	To verify that a Compact Car can be successfully rented to a Basic (Regular) Renter.	A Compact Car is available in the system. A Regular Renter is added to the system.	1. Choose option 7 to rent a car. 2. Enter renter ID: "001". 3. Enter car ID: "001". 4. Enter distance to be traveled: 100. 5. Do not add insurance (Enter "2" for No).	Option: 7 Renter ID: 001 Car ID: 001 Distance: 100 Do you want to add insurance? (1. Yes, 2. No): 2	System displays "Car renter Successfully. Total Rent: 4000"

Test Case 5: Renting a Luxury Car to Regular Renter (Added Insurance)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 05	To verify that a luxury Car can be successfully rented to a Regular Renter with the addition of insurance.	A Luxury Car is available in the system. A Regular Renter is added to the system.	1. Choose option 7 to rent a car. 2. Enter renter ID: "001". 3. Enter car ID: "001". 4. Enter distance to be traveled: 100. 5. Add insurance (Enter "1" for Yes).	Option: 7 Renter ID: 001 Car ID: 001 Distance: 100 Do you want to add insurance? (1. Yes, 2. No): 1	System displays " Insurance added successfully. Car rented successfully. Total Rent: 6900.0 Damage Cost: 980.0 Insurance Cost: 400.0"

Test Case 6: Renting a Luxury Car to a VIP Renter (Added Insurance)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 06	To verify that a Luxury Car can be successfully rented to a VIP Renter with Insurance Added.	A Luxury Car is available in the system. A VIP Renter is added to the system.	1. Choose option 7 to rent a car. 2. Enter renter ID: "001". 3. Enter car ID: "001". 4. Enter distance to be traveled: 100. 5. Add insurance (Enter "1" for Yes).	Option: 7 Renter ID: 001 Car ID: 001 Distance: 100 Do you want to add insurance? (1. Yes, 2. No): 1	System displays " Car rented details. Total Rent(Incl. special discount): 5520.0 Damage Cost: 980.0 Insurance Cost: 400.0"

Test Case 7: Renting a Luxury Car to a VIP Renter (No Insurance)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 07	To verify that a Luxury Car can be successfully rented to a VIP Renter without Insurance	A Luxury Car is available in the system. A VIP Renter is added to the system.	1. Choose option 7 to rent a car. 2. Enter renter ID: "001". 3. Enter car ID: "001". 4. Enter distance to be traveled: 100. 5. Add insurance (Enter "2" for No).	Option: 7 Renter ID: 001 Car ID: 001 Distance: 100 Do you want to add insurance? (1. Yes, 2. No): 2	System displays " Car rented details. Total rent: 6500.0"

Test Case 8: Damage cost on Insured Car (On Luxury Car)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 08	To verify the correct calculation and display of damage cost based on the car type and insurance status.	A Luxury Car is rented to a Frequent Renter for 100km distance.	1. Choose option 5 to display Rental Details. 2. Car Rental Details will be displayed including its Total cost, Insurance and Damage Cost.	Option: 5 Renter ID: 001 Car ID: 001	System displays " Car rented details. Total Rent (Incl. Loyalty): 5865.0 Damage Cost: 980.0 Insurance Cost: 400.0"

Test Case 9: Damage cost on Insured Car (On Luxury Car)

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 09	To verify the correct calculation and display of damage cost based on the car type and insurance status.	A Luxury Car is rented to a Corporate Renter for 50km distance.	1. Choose option 5 to display Rental Details. 2. Car Rental Details will be displayed including its Total cost, Insurance and Damage Cost.	Option: 5 Renter ID: 001 Car ID: 001	System displays " Car rented details. Total Rent(Incl. special discount): 3160.0 Damage Cost: 590.0 Insurance Cost: 200.0

Test Case 10: Damage cost on SUV Insured Car

Test Case ID	Test Case Objective	Pre-Requisite	Steps	Input Data	Expected Result
TC_ 10	To verify the correct calculation and display of damage cost based on the car type and insurance status.	A SUV is rented to a Frequent Renter for 50km distance.	1. Choose option 5 to display Rental Details. 2. Car Rental Details will be displayed including its Total cost, Insurance and Damage Cost.	Option: 5 Renter ID: 001 Car ID: 001	System displays " Car rented details. Total Rent(Incl. Loyalty): 2975.0 Damage Cost: 500.0 Insurance Cost: 315.0