

Course Project: Car Rental Application

Points: 5 | CLO C4

Submission Deadline: As announced by Lab Lecturer

Project Requirements

Build an application for a car rental company. It should offer the following features:

- Maintain a customer database in a file:
 - Register / add new customers. Customer information should include
 - Customer ID number
 - Name
 - Phone number
 - Search customer database by:
 - Customer ID number
 - Name
 - Phone numberAnd print out the matching records
- Maintain a database in a file:
 - Add a new vehicle to the fleet. Vehicle information should include
 - Model year
 - Make
 - Model name
 - License plate number
 - Customer number who is currently renting vehicle
 - Delete a vehicle from the fleet
 - Rent a vehicle to a registered customer
 - Receive rented vehicle back from customer
 - Search vehicle database by any field:
 - Model year + Make + Model name
 - License plate number
 - Customer number who is currently renting vehicleAnd print out all matching records

Submission Instructions

Step 1: Team Formation

Form your teams of 2-3 students for the course project.

You have to submit your team members' names and student numbers to your Lab Instructor.

Step 2: Project Submission Instructions

To submit your project, one team member should upload a project report containing the following things through the assignment created on BlackBoard:

1. Project report in MS Word (.DOCX file) format that includes the following
 - a. Project title
 - b. Names and Student IDs of team members

CCCS 111 – Introduction to Programming
University of Jeddah

- c. Features and capabilities of your project
 - d. A simple user manual instructing a new user on how to use your program
 - e. Documentation of your code
 - i. Flow chart with an accompanying description
 - ii. Descriptions of custom functions
 - iii. C Standard Library functions you used
2. Source code (.CPP file) of your program.
 3. A breakup of tasks across team members (who did what?)