

Car Rental System

Introduction: The Car Rental System is a console-based system that will design with C++ and it will implement almost all of the fundamental features of Object Oriented Programming (OOP). The main objective of this project is to use OOP features as much as possible. This car rental system would keep detailed records of both the cars and the customers, the duration they rent the car as well as the type of car they rent. Both the customer and the administrator will have access at different levels.

Problem Statement:

- The Manual car rental system provides services only during office hours.
- So customers have limited time to make any transactions or reservations of the cars.
- To rent a car a prospective renter must first go to the nearest office to register as a client.
- Cars that are rented out are normally advertised in local or national newspapers. It involves a lot of paperwork and consumes time.

The existence of online car rental systems nowadays has overcome the limitation of business operation hours.

Objectives of the Project:

- The objective of this project is to Design and implement a Console based application for online reservation of cars from a car renting business.
- Provide easy Software for people who are renting cars, where they can easily search and reserve their car online.
- Automation of the current business process which was handled manually collecting details through telecommunication.

Tools:

- We are using GNU C++ Compiler and Codeblocks IDE.
- We will complete this project in C++ Language.

Methodology: Features

Select an option from below:

- 1) Manage Cars (Only for administration)
- 2) Rent a car
- 0) Exit

- The most special feature of this project is that both the administrator and the user can access the system.
- When the user accesses the system then he can only:
 - 1. View cars at affordable price
 - 2. Rent a car

Model
ID

By choosing his desirable car from the available car list, that is already stored in the system.

- The user would have to provide his personal data such as:
 - 1. Name
 - 2. Address
 - 3. Telephone Number
 - 4. Email address

and pay the bills by bank in order to finish the renting process.

- When the administrator accesses the system then he can manage all the data that are stored in the system such as:
 - 1. Adding a new car
 - 2. See all the cars
 - 3. See the renter's information
 - 4. Delete a car from the system.

Conclusion:

A Console based software system for customers to search, view and reserve cars for renting and for businesses to manage & update the details & view business-related reports.