MINI PROJECT

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Subject: Object Oriented Concepts in C++ and Java

Problem Statement:

A car rental service company is facing a challenge in managing their fleet of vehicles. The company has a large number of cars available for rent, and they need to keep track of the availability, condition, and maintenance schedule of each vehicle.Currently, the company uses a manual system to manage their fleet, which involves keeping track of each vehicle on paper or in spreadsheets. This system is time-consuming, error-prone, and makes it difficult to quickly identify which vehicles are available for rent.The company is looking for a more efficient and automated solution to manage their fleet of vehicles. They want a system that can:

- Provide real-time information on the availability and

condition of each vehicle.

- Automate the completion of these tasks.

- Allow customers to easily book and rent vehicles online, as well as view the availability and pricing of different vehicles.

- Ensure the security of customer information and compliance with data protection regulations.
  The car rental service company is looking for a reliable and scalable solution that can meet their current and future needs. They want to improve their customer service and streamline their operations to remain competitive in the market

Objectives:

1. To create a miniproject using all concepts learned in Object Oriented Concepts using C++and Java

Theory:

Car rental service company wants to improve its business processes by introducing an online booking system. Currently, customers have to visit the rental office in person to book a car, which is inconvenient for both the customer and the company. The new system should allow customers to book a car online and should also help the company manage its fleet

of cars more efficiently.

Requirements:

1 Online Booking System: The new system should allow customers to book a car online. Customers should be able to view the availability of cars, select the type of car they want, and book the car for a specific date and time.

2 User Authentication: The system should require users to create an account and log in before they can make a booking. This will help prevent unauthorized bookings

3 Payment Processing: The system should allow customers to pay for their booking online using a credit

4 Fleet Management: The system should allow the rental company to manage its fleet of cars more efficiently. The company should be able to view the availability of cars, track the maintenance and repair history of each

5 Data Security: The system should ensure that customer data is protected and that the payment

processing system is secure.

Overall, the new online booking system should provide a convenient and efficient way for customers to book cars and should help the rental company manage its fleet more effectively.

and provide a record of each customer's bookings. card or other online payment methods.

car, and manage the rental schedule of each car.

Platform: 64 –bit Open-source Linux

Input: Given Input

Output: Properly displayed output

Conclusion: Hence, the concepts of Object Oreinted Programming are studied successfully.