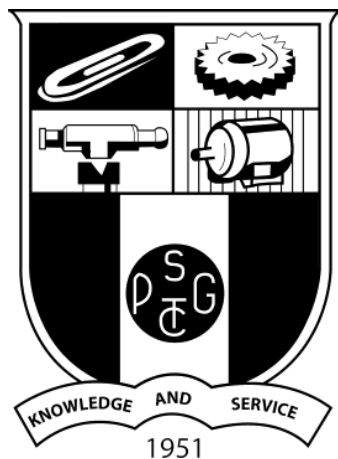# 19Z612 - APPLICATION DEVELOPMENT LABORATORY

VEHICLE RENTAL SYSTEM

PSG COLLEGE OF TECHNOLOGY

TEAM - 7

Team Members

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REVISION HISTORY

Name	Date	Reason For Changes	Version

PROBLEM STATEMENT

People need to travel across different places for various purposes including work, education, and entertainment. Many people either don't have access to own personal vehicles or don't own a vehicle at all. Renting vehicles is a possible solution to this problem. Renting a vehicle will save people from worrying about maintenance and depreciation loss and other hassles like maintaining legitimate papers and so on. Thus Vehicle Rental System helps to rent, and manage cars and customer data thereby breaking down the process of renting vehicles.

OBJECTIVE

The main objective of the Project on the Vehicle Rental System is to manage the details of the Vehicle, Customer, Payment, and Booking. It manages all the information about vehicles, Suppliers, and vehicles. The project is totally built at the administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Vehicle, Customer, Supplier, and Payment. It tracks the details in the process of renting a vehicle .

ABSTRACT

The purpose of the Vehicle Rental System is to untangle the existing manual system with the help of computerized equipment and full-fledged computer software, fulfilling its requirements so that valuable information can be stored for a longer period with easy access and manipulation for the same. The required software and hardware are readily available and easy to work with.

Vehicle Rental System, as described above, can lead to error-free, secure, reliable, and fast management systems. It can assist the user to concentrate on their other activities rather than concentrate on record keeping. Thus it will help organizations in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant while being able to reach the information.

Managing rental requests is a highly concurrent process and may overload the server so it is necessary to make a simple and reliable backend. Basically, the project describes how to manage for good performance and better services for the clients. It has a user-friendly interface that helps the user to check for cars and rent them for the period specified. They could also make payments online. The rental Vehicles shall be categorized into economy, premium, etc. Based on the type of car required by the customer, the user shall be able to make bookings. Each booking will use an individual identification number. Using these details, the tool shall help the customer to book a car for the journey.

FOR WEB APPLICATION

- MongoDB
- Express(.js)
- React(.js)
- Node(.js)

FOR APP

- Flutter (Dart) / Java

MODULES OF VEHICLE RENTAL SYSTEM

- Vehicle Management Module: Used for managing the Vehicle details.
- Supplier Module: Used for managing the details of the Supplier
- Customer Management Module: Used for managing the information and details of the Customer.
- Payment Module: Used for managing the Payment details
- Booking Module: Used for managing the Booking information
- Login Module: Used for managing the login details
- Users Module: Used for managing the users of the system

TIMELINE

Date (Tentative)	To Do
06/01/2023	Web Page design - show the code for the static page created
13/01/2023	Inclusion of images & Videos in the webpage - show the demo and code
20/01/2023	Styling and Script Language - show the demo and code
03/02/2023	Backend server name - Logic and demo with code
10/02/2023	Dynamic pages - script and demo
17/02/2023	Database - name and demo with connectivity code
24/03/2023	Conversion of a web app to a mobile app - demo and code in the framework