

A
Project Report On

Vehicle Sales Purchase and Management System

By

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B. Tech CE Semester-VI
Subject: System Design Practice

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CERTIFICATE

This is to certify that the practical / term work carried out in the subject of
System Design Practice and recorded in this journal is the
Bonafide work of

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Of B.Tech semester **VI** in the branch of **Computer Engineering**
During the academic year **2020-2021**

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Abstract

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

We respect and thank to Associate Prof. Dr. Malay S. Bhatt for providing us an opportunity to do the project work in SDP and giving us all support and guidance, which made us complete the project duty. We are extremely thankful to him for providing such a nice support guidance by taking keen interest in our project, although he had busy schedule managing the lectures.

We would also like to express our special thanks of gratitude to our HOD Prof. C. K. Bhensdadia who gave us the golden opportunity to do this wonderful project on the topic: Online Car Sales and Management System. We would also like to thank him for including such things in curriculum making it more interesting and useful practically.

Finally, we would like to thank each and every person who was there around us helping more or less in our project and keeping us motivated to work hard and complete the project. We would also thank them for inspiring us and sharing their ideas and views to make this project a success.

Yours sincerely,
Dev Patel (CE094).
Hardik Parikh (CE089),

1. Introduction of the Project:

a. Need of the Project:

In such challenging times when people are forced to stay indoors and for this situation The solution to the car industry is to shift to the digital platform, to minimize loss to Their business, now our project fills the gap of this ‘digital platform’, here we are Providing impartial service to every customer at the same time business to the car Dealers and manufacturer.

b. Advantages:

By being everything online, anyone can access the required information at anytime, anywhere, so this saves a lot of troubles to the customers of physically visiting every car dealer and thus saves precious time of the customers. At the other hand it gives the car dealers the reach outside there area, city, and thus they can expand their business. In short it is *win-win* solution for both customers as well as the car dealers.

c. Limitations:

Currently our project is at educational level and thus it cannot be scaled at the industry level. At the same time the scope of the requirements may not be applicable to each and every

d. Future Extensions:

Mentioned Later in this document.

2. Software Requirements Specifications (SRS):

a. Introduction

i. Purpose

This Document encases the idea and implementation of Online Car Sales and Inventory Management System.

ii. Intended Audience and Reading Conventions

This Document is intended for application designers, software testers, users and project managers.

iii. Product Scope

This Document specifies requirements for a simple application that allows user to:

- Login and Register via proper source.
- Manage his/her profile.

- Search for a car.
- Place order for a car.
- View Inventory.
- View favorite cars.
- View Popular Cars.

b. Overall Description

i. Product Perspective

This system by providing online interface to customers, sales manager and to manufacturer will make process of buying and managing easy and transparent.

ii. Product functions

This system will allow customers to search, compare and buy a car. Sales Manager of particular showroom can view the inventory and also place order. Manufacturer will be able to view all pending orders, past orders that are completed along with statistics of a car, a showroom etc. all at same destination.

iii. User Classes and Characteristics

Users in this application would be customers, sales manager, manufacturer and admin, along with developers and testers.

iv. Operating Environment

Minimum Hardware requirements:

Windows, Linux or MacOS with i3+ processor

Min: 2GB RAM, 4GB+ RAM recommended, Internet or LAN

connection

Minimum Software requirements:

Support for HTML5, CSS3, JS, JQuery, dotnet

v. Design and Implementation Constraints

Web browser needs to be opened externally, application does not provide this support. Also system needs to have permanent internet connection.

vi. Assumptions and Dependencies

There should be permanent internet or LAN connection. Users trust in service should be implicit.

c. Functional Requirements

i. Manage User

This Module will handle user registration, authentication and even user role.

1. Register User

This module will register a user to our app.

Input: Username, email, password.

Output: Acknowledgement of registration.

2. Authenticate User

This module will authenticate user.

Input: Username, password.

Output: Message about user validation, in case of success redirection to home page according to the type of user.

ii. Manage User Profile

1. Show User Details

This module will display user details to the authenticated user.

Input: User's Selection

Output: User Details

2. Update User Details

This module will change user details.

Input: Updated user details.

Output: Acknowledgement about the same

3. View Order History

This module will allow customer to view their past orders (if any).

Input: User's Selection

Output: Order history.

iii. View Car Listings

This module will manage car listings.

1. Browse Listings

This module will browse and display all the available cars.

Input: User's Selection

Output: List of the available cars.

2. Search by name

This module will perform search of the car by name and will display appropriate details.

Input: Name of the car to search

Output: Search Result or appropriate message in case no result is found.

3. Filter Listings

This module will perform filtering of the listing based on some parameter such as filtering by price, name, date of launch, popularity.

Input: User's selection and appropriate value (if required in case of price)

Output: Filtered Listing.

4. Compare Two Car

This module will perform comparison of the two cars selected by the user.

Input: Selection of two cars to compare and/or the parameter of comparison.

Output: Parameter wise Comparison table

5. Place Order (only for customers)

This module will place order of a particular car.

Input: Car that is to be purchased.

Output: Appropriate message to sales manager and customer, along with necessary update done in the inventory.

iv. Manage Inventory

This module will perform Inventory management. Here the intended user is Sales Manager

1. Order a car

This module will place order of the car to the manufacturer.

Input: Car which is to be placed for order.

Output: Appropriate message to sales manager and manufacturer

2. Confirm Order of customer

This module will allow sales manager to confirm the order placed by a customer.

Input: Car whose order is to be confirmed.

Output: Appropriate message to the customer, acknowledgement message to sales manager and necessary update in the inventory.

3. View statistics

This module will allow sales manager to view the statistics for a particular car, for a particular time period.

Input: User's Selection

Output: Statistics as per user's selection.

4. Order History

This module will allow sales manager to view his /her showrooms past orders.

Input: User's Selection

Output: History of order along with its details.

v. Manage Catalogue

This module will allow the manufacturer to manage the catalogue of cars it manufacturers. Intended user of this module is the manufacturer.

1. Add a car

This module will allow manufacturer to add a new car to the catalogue.

Input: Details of the car

Output: Acknowledgement to the manufacturer.

2. Update a car detail

This module will allow the manufacturer to update the details of the car.

Input: After selecting a car, details of the car that are to be updated.

Output: Acknowledgement message to the manufacturer.

3. Delete a car

This module will allow the manufacturer to delete the car which it has stopped manufacturing.

Input: Selected car.

Output: Acknowledgement message to the manufacturer.

4. Confirm order of sales manager

This Module will allow manufacturer to confirm any outstanding order placed by the sales manager.

Input: Selection of the order that is to be confirmed.

Output: Acknowledgement message to the manufacturer, and appropriate message to the sales manager.

d. Other Non-Functional Requirements

i. Performance Requirements

Each operation on this application is estimated to take 10-30ms as per net coverage.

ii. Safety Requirements

Each User must abide by policies set by this application

iii. Security Requirements

The security of the application is our utmost priority.

iv. Software Process model

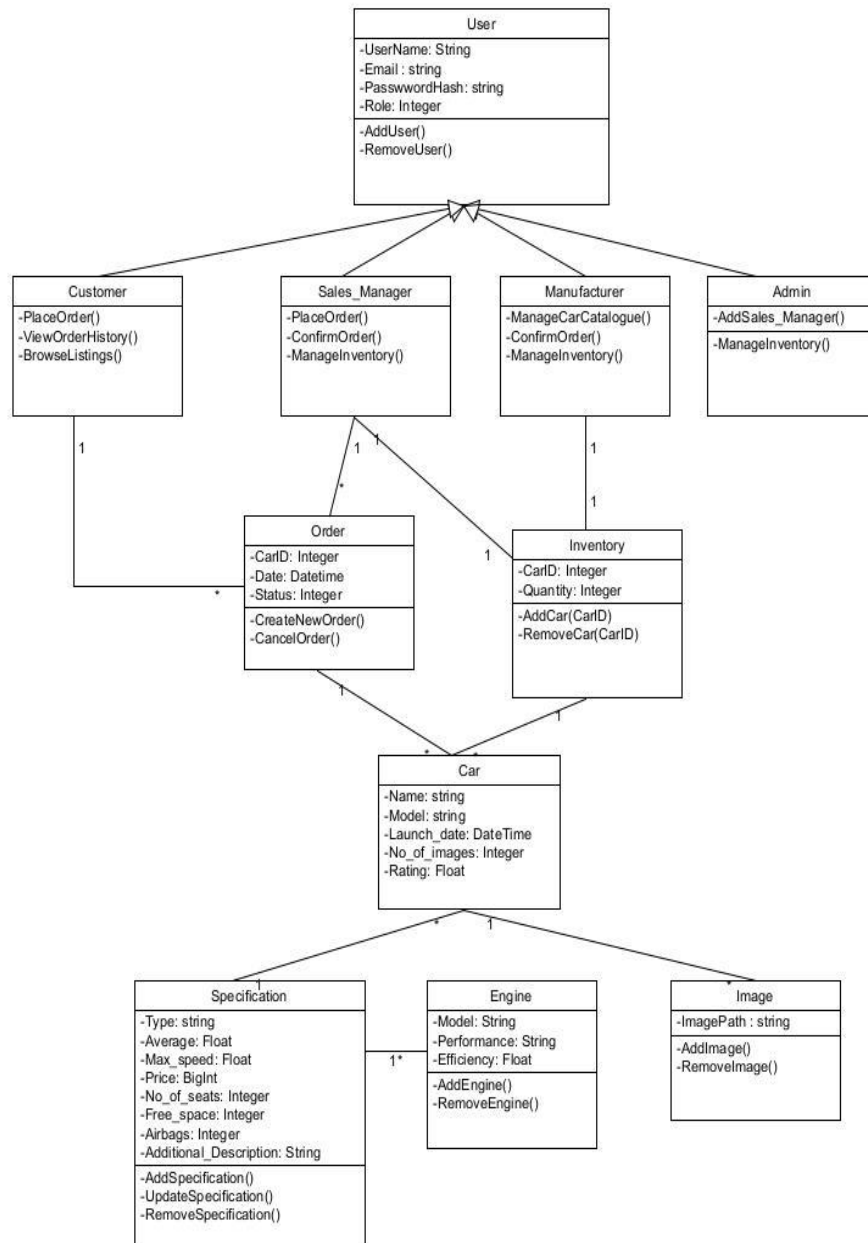
Iterative Waterfall Model

3. Design of project

System design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. One could see it as the application of systems theory to product development. There is some overlap with the disciplines of system analysis, systems architecture and system engineering. If the broader topic of product development “blends the perspective of marketing, design, and manufacturing into a single approach to product development”, then design is the act of taking marketing into and creating the design of the product to be manufactured. Systems design is therefore the process of defining and developing systems to specified requirements of the user. Until 1990s system design had a crucial and respected role in data processing industry. In the 1990s standardization of hardware and software resulted in the ability to build modular systems. The increasing importance of software running on a generic platforms has enhanced the discipline of the software engineering.

Object-oriented analysis and design methods are becoming the most widely used methods for computer systems design. The UML has become the standard language in object-oriented analysis and design. It is widely used for modeling the software systems.

a. UML Diagrams
i. Class Diagram

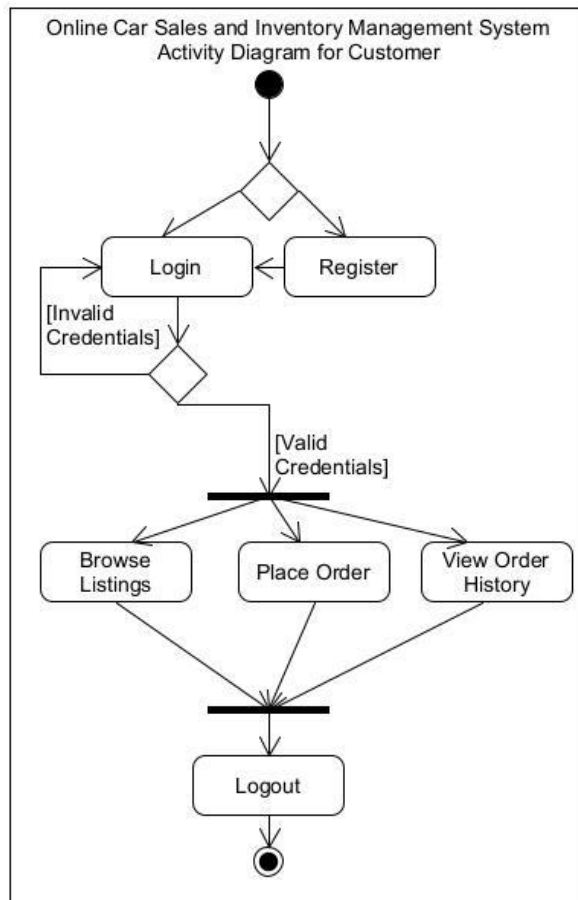


ii. Use Case Diagram

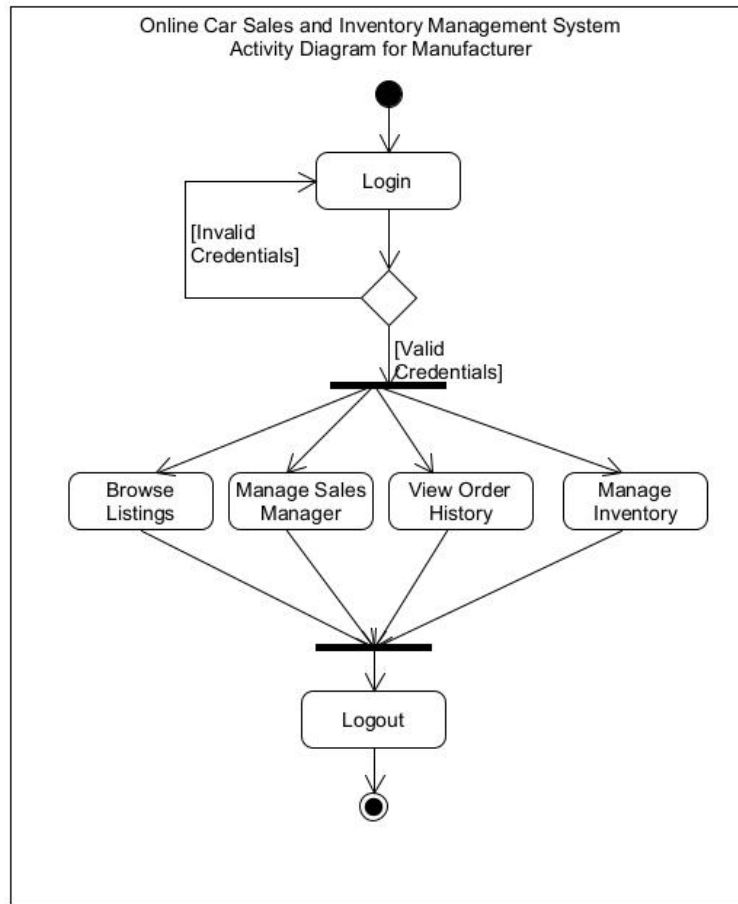


iii. Activity Diagram:

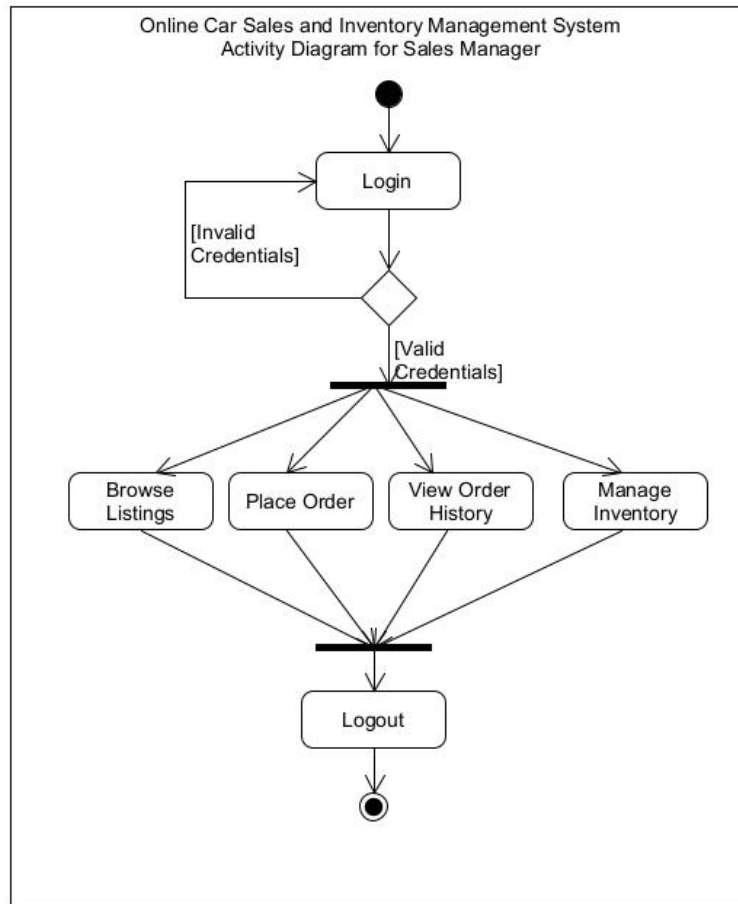
1. *For Customer*



2. For Manufacturer

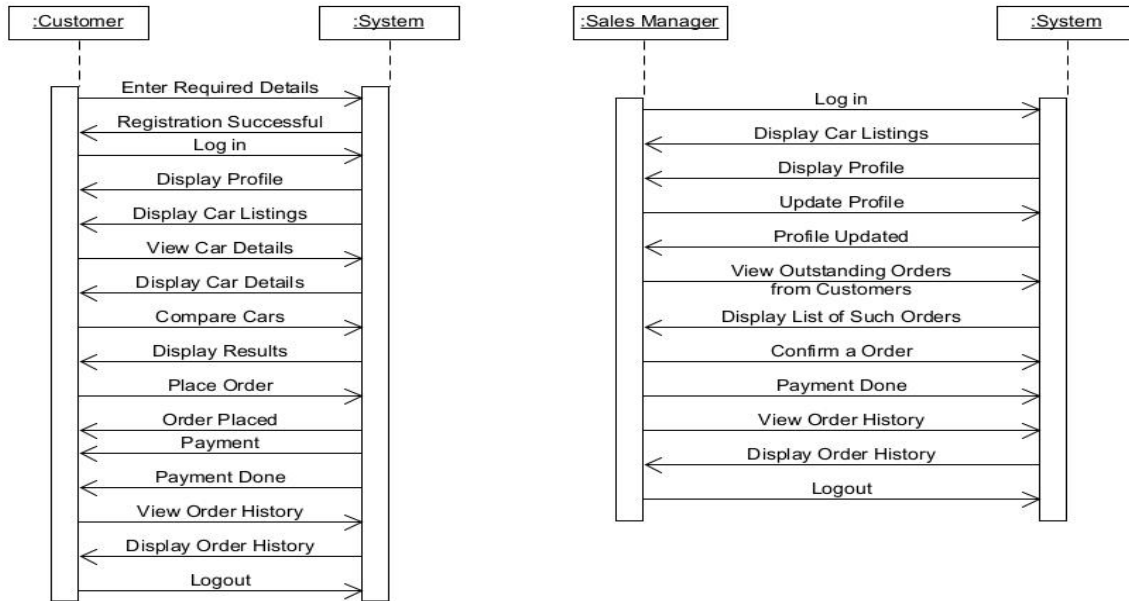


3. For Sales Manager

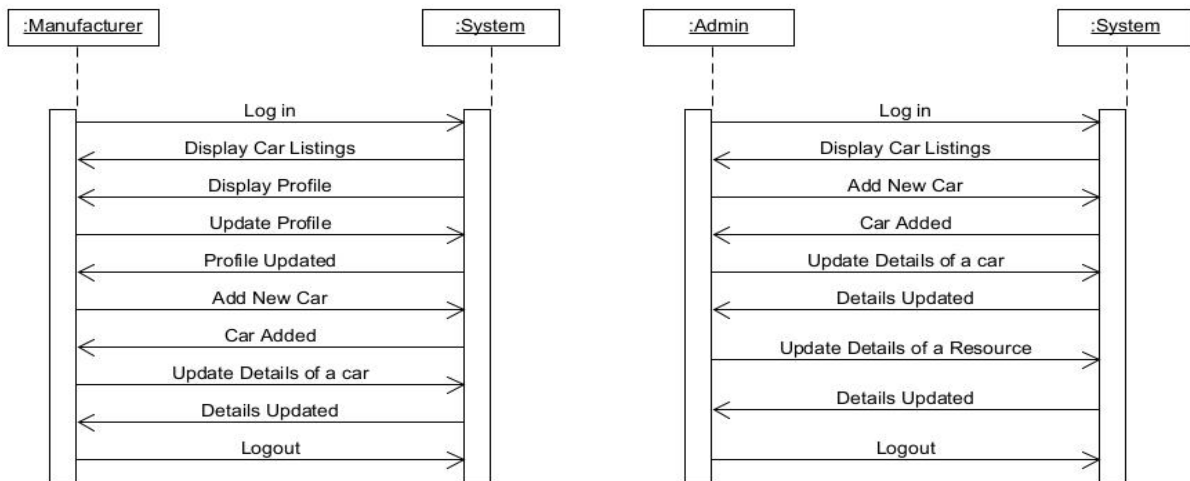


iv. Sequence Diagram

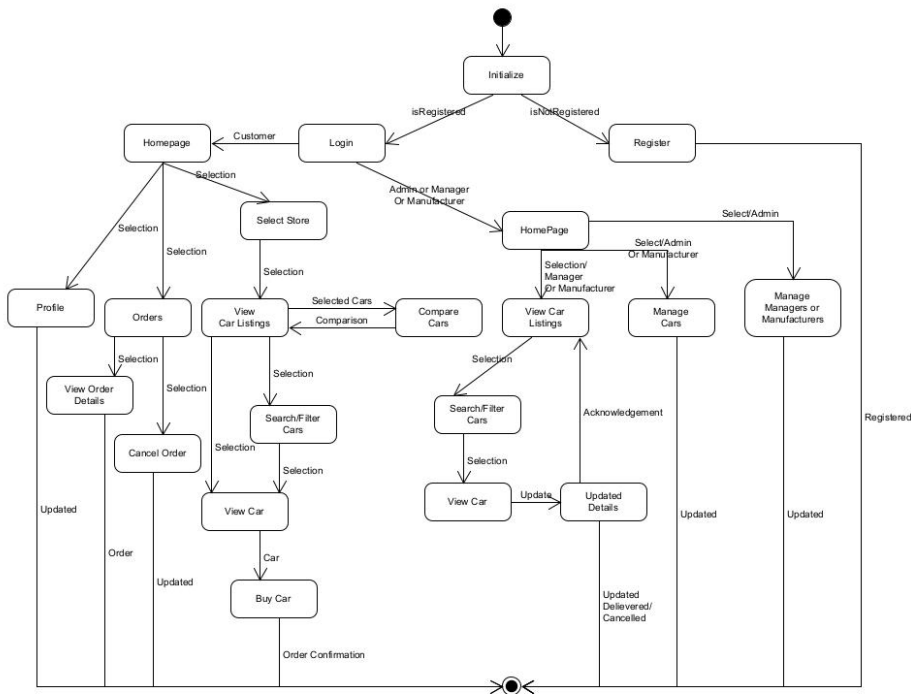
1. For Customer and Sales Manager



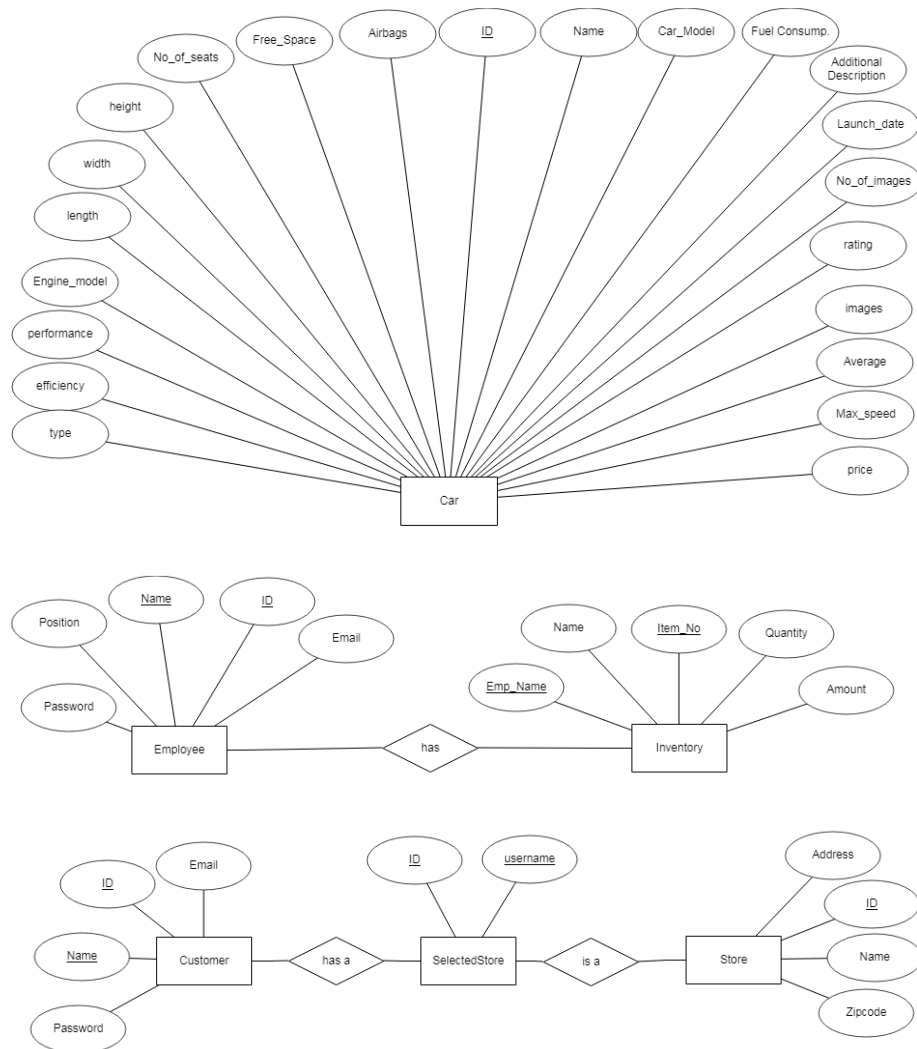
2. For Manufacturer and Admin



v. State Diagram



vi. E-R Diagram



vii. Data Dictionary

1. Car

Name	Data Type
ID	Int
Name	nvarchar(MAX)
Car_Model	nvarchar(MAX)
Launch_date	Datetime2(7)
No_of_images	Int
Rating	Real
Images	nvarchar(MAX)
Average	Real
Max_speed	Real
Price	bigint
Airbags	Int

Free_space	Int
No_of_seats	Int
height	real
Width	real
Length	real
Engine_model	nvarchar(MAX)
performance	nvarchar(MAX)
Efficiency	real
Type	Int
Fuel Consumption Type	Int
Additional Description	nvarchar(MAX)

2. Employee

Name	Data Type
ID	Int
Name	nvarchar(MAX)
Email	nvarchar(MAX)
Position	Int
Password	nvarchar(MAX)

3. Inventory

Name	Data Type
Item_No	Int
Name	nvarchar(MAX)
Quantity	Int
Emp_name	nvarchar(MAX)
Amount	Int

4. Customer

Name	Data Type
ID	Int
Name	nvarchar(MAX)
Password	nvarchar(MAX)
Email	nvarchar(MAX)

5. Store

Name	Data Type
ID	Int
Name	nvarchar(MAX)
Address	nvarchar(MAX)
Zipcode	nvarchar(MAX)

6. SelectedStore

Name	Data Type
ID	Int
UserName	nvarchar(MAX)

4. Implementation Detail

a. Modules Created.

i. Car Module:

In this module everything right from creating the car to editing it to deleting, along with ordering it is maintained. Only Admin and Manufacturer will be able to manage Car.

ii. Employee Module

This module is for working on employees, this will enable appropriate user to manage the users of the system. Also, this module is only for Admin of the system.

iii. Inventory Module

This module is for Admin, Manufacturer and Sales Manager, where they can manage there inventory of cars.

iv. Order Module

This module is responsible for handling the orders from customers (or Sales Manager). Also, this is the module where sales manager (or Manufacturer) will be able to view and complete the pending orders.

v. Store Module

In this module Admin will be able to manage the stores. thi

b. Function prototypes which implements major functionality

- Login and Register via proper source
- Manage his/her profile.
- Search for a car.
- Place order for a car.
- View Inventory.

5. Testing

In this project testing has been done manually. Following are the test cases for the system

TestC aseID	Test Case Description	Expected Result	Tested by	Date Tested	Test Case Status
<i>Registration</i>					
1	Key-in credentials on the registration page. Logged in as Admin	Send login credentials through mail	Dev Patel	20/02/2021	Passed
2	Key-in credentials on the registration page.	Display login Page.	Dev Patel	20/02/2021	Passed

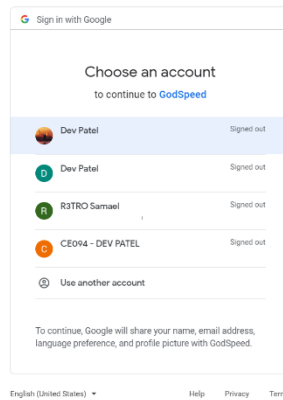
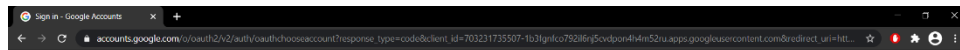
	Logged in as customer				
3	Key-in logged in as admin, register new manufacturer, sales manager	Send login credentials through mail	Dev Patel	20/02/2021	Passed
4	Key-in Try to register, logged in as manufacturer, sales-manager	Display error message	Dev Patel	20/02/2021	Passed
<i>Login</i>					
5	Key-in Login credentials, either not valid credentials or empty fields	Display error message	Dev Patel	20/02/2021	Passed
6	Key-in Correct login credentials of customer	Display Home Page of customer	Dev Patel	20/02/2021	Passed
7	Key-in Correct login credentials of manufacturer	Display Home Page of manufacturer	Dev Patel	20/02/2021	Passed
8	Key-in Correct login credentials of sales manager	Display Home Page of sales manager	Dev Patel	20/02/2021	Passed
9	Key-in Correct login credentials of admin	Display Home Page of admin	Dev Patel	20/02/2021	Passed
<i>Add/Update/Delete a Car</i>					
10	Key-in add/update/delete a car to car listings, logged in as manufacturer, admin.	Display acknowledgment message.	Hardik Parikh	20/02/2021	Passed
11	Key-in add/update/delete a car to car listings, logged in as customer, Sales Manager.	Display error message	Hardik Parikh	20/02/2021	Passed

Test Case ID	Test Case Description	Expected Result	Tested by	Date Tested	Test Case Status
<i>View a Car</i>					
12	Key in: Admin, Customer, Manufacturer, Sales Manager can view a car.	Display car details.	Hardik Parikh	20/02/2021	Passed
<i>Manage Store</i>					
13	Key in: Add/update/delete details of store. Logged in as admin.	Display appropriate acknowledgment message.	Dev Patel	06/03/2021	Passed
14	Key in: Add/update/delete details of store. Logged in as manufacturer/sales manager/customer	Display error message	Dev Patel	06/03/2021	Passed
<i>Manage Inventory</i>					
15	Key in: Manage inventory. Logged in as manufacturer, sales manager.	Display corresponding message	Dev Patel	06/03/2021	Passed
16	Key in: manage Inventory. Logged in as customer/ admin	Display error message	Dev Patel	06/03/2021	Passed
<i>Place Order</i>					
17	Place order, logged in as customer, sales manager. All details entered are valid & sufficient stock is available	Display acknowledgment message.	Dev Patel	06/03/2021	Passed
18	Place order, logged in as customer, sales manager. All details entered are valid & sufficient stock isn't available.	Display error message	Dev Patel	06/03/2021	Passed
19	Place order, logged in as manufacturer, admin.	Display error message	Dev Patel	06/03/2021	Passed
20	Search by name of car.	Display details of car if found.	Dev Patel	06/03/2021	Passed

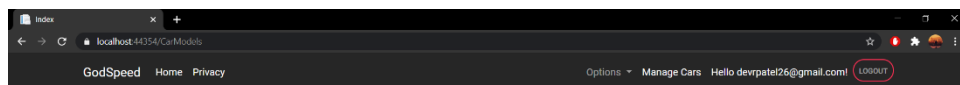
21	Search by name of car.	Display error message if no such car found.	Dev Patel	06/03/2021	Passed
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6. Screenshots of working project:

a. Admin



Admin Login



Index

Create New

COMPARE

	Car Name	Car Model	Launch Date	Engine Model	Car Type	Price	Fuel Consumption type	
<input type="checkbox"/>	Ford GT	Mk 2	31-01-2021 13:38:00	3.5L ecoboost V6	sport	45000	petrol	Edit Details Delete
<input type="checkbox"/>	Rapid	Rapid G67T	06-01-2021 13:56:00	G3MC 7T	sedan	20000	CNG_diesel_hybrid	Edit Details Delete

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Admin Index page

Index

Create New

COMPARE

	Car Name	Car Model	Launch Date	Engine Model	Car Type	Price	Fuel Consumption type	
<input type="checkbox"/>	Ford GT	Mk 2	31-01-2021 13:36:00	3.5L ecoboost V6	sport	45000	petrol	Edit Details Delete
<input type="checkbox"/>	Rapid	Rapid G67T	06-01-2021 13:56:00	G3MC 7T	sedan	20000	CNG_diesel_hybrid	Edit Details Delete

Options

Manage Cars

Hello devrpatel26@gmail.com!

LOGOUT

Manage Employees

Manage Stores

Assign Stores

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https://localhost:44354/employees

Options for Admin

Create

Employee

Employee ID

Employee Name

Email

Employee Role

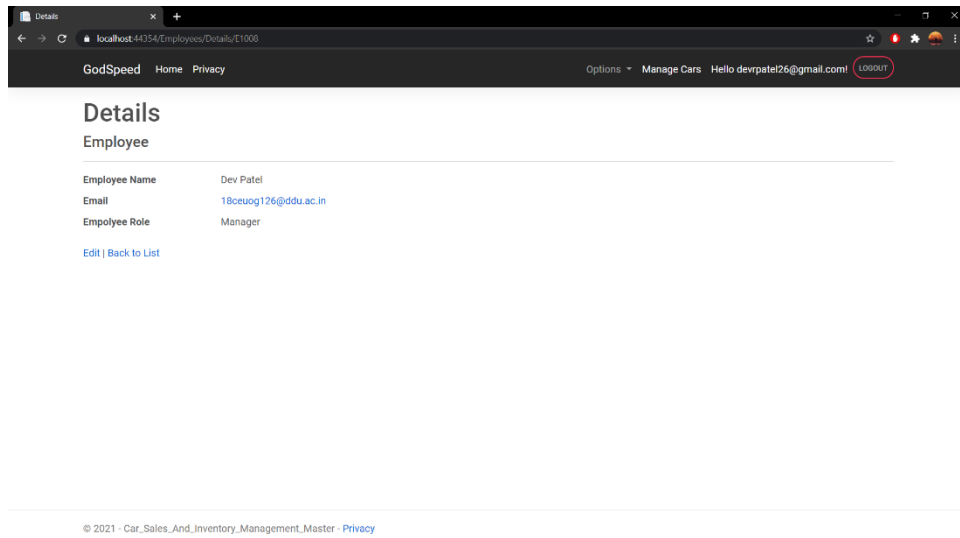
CREATE

Credentials Would be Sent to Above Email ID

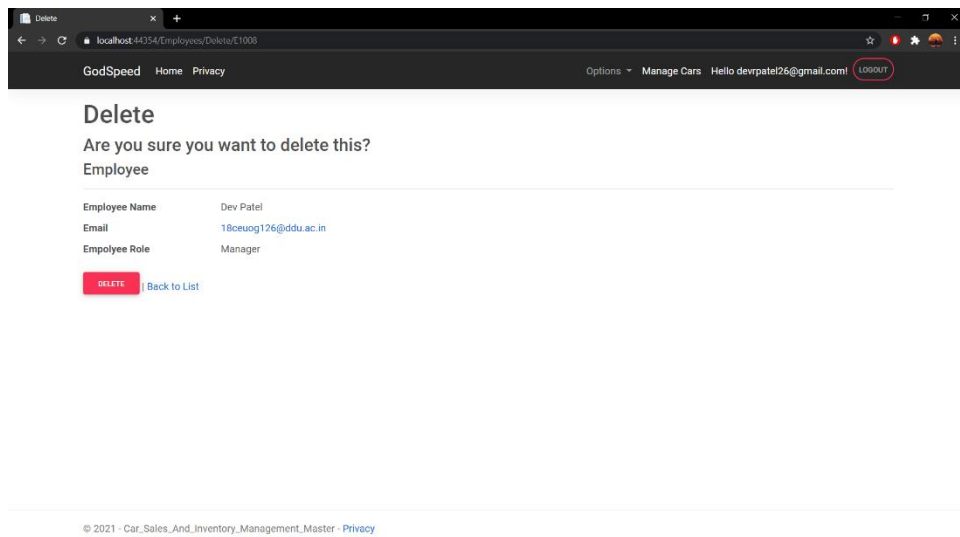
[Back to List](#)

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Create Employee



View details of employee



Delete Employee

Create

CarModel

Car Name

Car Model

Launch Date

no_of_images

Ratings

images

Choose Files No file chosen

Height in cm

Admin create Car

Edit

CarModel

Car Name

Car Model

Launch Date


no_of_images

Ratings

images

Choose Files No file chosen

Height in cm



Admin Car Edit

Create

localhost:44354/SelectedEmployee/Create

GodSpeed Home Privacy Options Manage Cars Hello devrpatel26@gmail.com LOGOUT

Create

SelectedEmployee

Employee

Please Select One

Store

Please Select One

CREATE

[Back to List](#)

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Admin Store Create

Details

localhost:44354/Stores/Details/1

GodSpeed Home Privacy Options Manage Cars Hello devrpatel26@gmail.com LOGOUT

Details

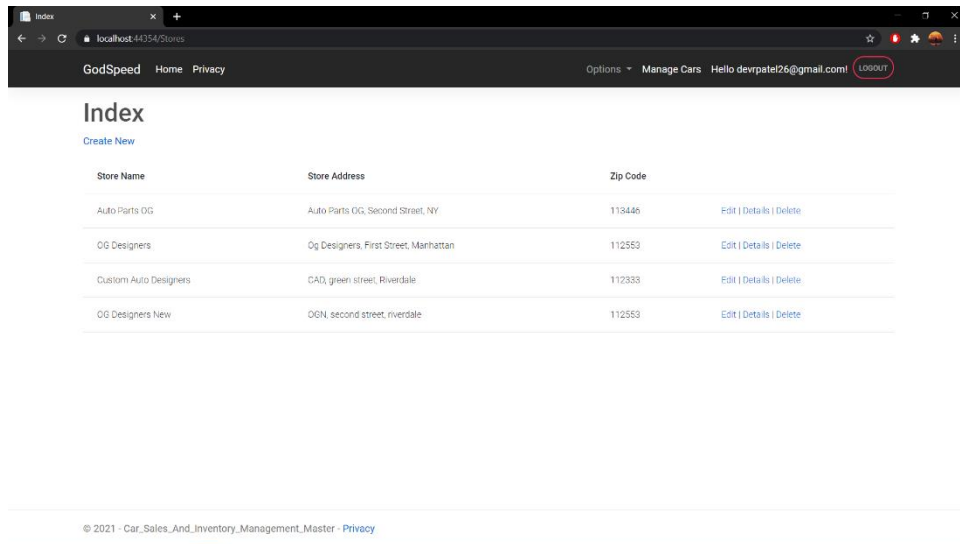
Store

Store Name	Auto Parts OG
Store Address	Auto Parts OG, Second Street, NY
Zip Code	113446

[Edit](#) | [Back to List](#)

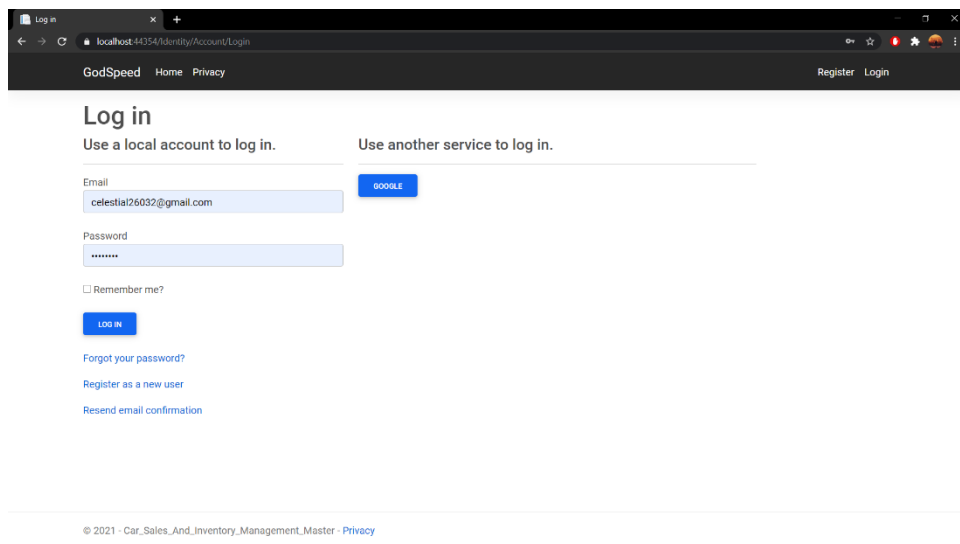
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Admin Store Details



Admin Store Index page

b. Customer



Customer Login

Home Page

localhost:4034/Landing/index

GodSpeed

Home

Privacy

View Cars

Your Orders

Change Your Store

Hello celestial26032@gmail.com!

LOGOUT

Select A Store Nearby Your Location

Your Selected Store is: Custom Auto Designers

Search

Store Name	Store Address	Zip Code	
Auto Parts OG	Auto Parts OG, Second Street, NY	113446	Select
OG Designers	OG Designers, First Street, Manhattan	112558	Select
Custom Auto Designers	CAO, green street, Riverdale	112333	Select
OG Designers New	OGN, second street, riverdale	112553	Select

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Customer selects store (Current Selection: *Custom Auto Designers*)

Home Page

localhost:4034/Landing

GodSpeed

Home

Privacy

View Cars

Your Orders

Change Your Store

Hello celestial26032@gmail.com!

LOGOUT

Select A Store Nearby Your Location

Your Selected Store is: OG Designers New

Search

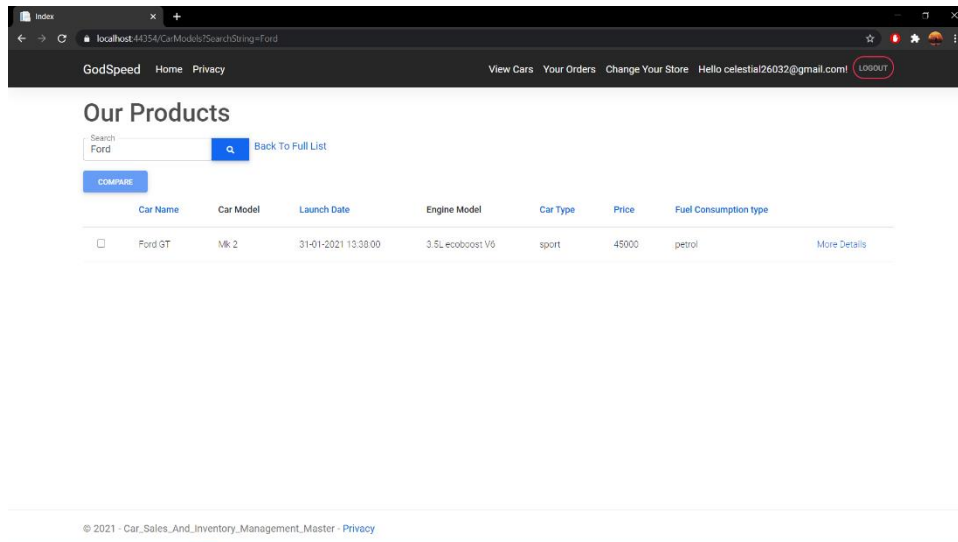
Store Name	Store Address	Zip Code	
Auto Parts OG	Auto Parts OG, Second Street, NY	113446	Select
OG Designers	OG Designers, First Street, Manhattan	112553	Select
Custom Auto Designers	CAO, green street, Riverdale	112333	Select
OG Designers New	OGN, second street, riverdale	112553	Select

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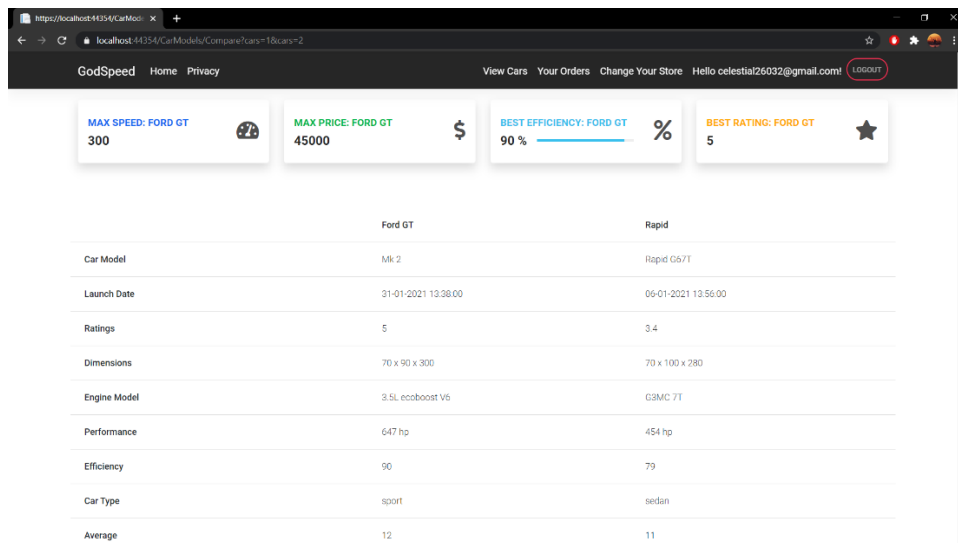
https://localhost:4034/Landing/SelectStore-OG-Designers-New

Customer selects store (Current Selection: *OG Designers*)

30



Customer can search car by name



Customer can compare cars (max up to 3 cars)

c. Sales Manager OR Manufacturer

Our Products

	Car Name	Car Model	Launch Date	Engine Model	Car Type	Price	Fuel Consumption type	
<input type="checkbox"/>	Ford GT	Mk 2	31-01-2021 13:38:00	3.5L ecoboost V6	sport	45000	petrol	More Details
<input type="checkbox"/>	Rapid	Rapid G6/T	06-01-2021 13:56:00	G3MC 7T	sedan	20000	CNG_diesel_hybrid	More Details

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Manager Index

Create Inventory

Car Name

Please Select One

Please Select One

Ford GT

Rapid

Quantity

The Quantity field is required.

CREATE

Back to List

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Inventory create

Details

localhost:40354/inventory/Details/12

GodSpeed Home Privacy View Cars Manage Inventory Orders Hello 18ceug126@ddu.ac.in! [Logout](#)

Details

Inventory

Car Name	Ford GT
Quantity	1

[Edit](#) | [Back to List](#)

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Inventory details

Index

localhost:40354/inventory

GodSpeed Home Privacy View Cars Manage Inventory Orders Hello 18ceug126@ddu.ac.in! [Logout](#)

Inventory Contents

[Add New Item](#)

Car Name	Quantity	
Ford GT	1	Edit Details Delete

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Inventory index

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localhost:4034/Orders
GodSpeed Home Privacy
View Cars Manage Inventory Orders Hello 18ceug126@ddu.ac.in! LOGOUT

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Car Name	Order Date	Amount	Username	Address	Order Status
Ford GT	20-03-2021 12:25:59	45000	celestial26032@gmail.com	1153, Bel Air	Pending
					DELIVERED
Rapid	20-03-2021 09:56:52	20000	celestial26032@gmail.com	C-2, Narayan park, Indira Gandhi Road Opposite Santa Party Plot,	Successful
Rapid	20-03-2021 10:02:08	20000	celestial26032@gmail.com	C-2, Narayan park, Indira Gandhi Road Opposite Santa Party Plot,	Cancelled
Rapid	20-03-2021 10:55:53	20000	celestial26032@gmail.com	C-2, Narayan park, Indira Gandhi Road Opposite Santa Party Plot,	Cancelled
Ford GT	20-03-2021 11:00:42	45000	celestial26032@gmail.com	112, WC prep	Cancelled
Ford GT	20-03-2021 11:03:54	45000	celestial26032@gmail.com	C-2, Narayan park, Indira Gandhi Road Opposite Santa Party Plot	Cancelled

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Orders page (Pending and completed)

7. Conclusion

In this system customers will be able to register themselves and then they will be able to search, compare and buy cars. Admin, manufacturer and sales manager collectively will be managing the details of cars, stores and manufacturer as well as the manager will be able to view the pending as well as previous orders. They will be able to complete the pending orders.

8. Limitation and Future Extension

In this system no third party API for payment is used. So it is not possible to pay online. In future, for the real world scenario this can be extended. Along with this, it is assumed that car is always delivered to customer by some agent. In future we can extend this system where there will be delivery agents whose status will be visible to customer.

9. Bibliography

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