

A
PROJECT REPORT ON
CAR SELL/RENT APPLICATION

By

JAY SAVANI CE120 20CEUOS103

VATSAL VASANI CE155 20CEUOS010

MIT VIRANI CE156 20CEUOS059

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Guided By :

Prof. Jigar M. Pandya

Assistant Professor

Dept. Of Computer Engineering



*Faculty of Technology,
Department of Computer Engineering,
Dharmsinh Desai University.*



*Faculty of Technology,
Department of Computer Engineering,
Dharmsinh Desai University.*

CERTIFICATE

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

bonafide work of

JAY SAVANI CE120 20CEUOS103

VATSAL VASANI CE155 20CEUOS010

MIT VIRANI CE156 20CEUOS059

of B.Tech semester VI in the branch of Computer Engineering
during the academic year 2022-2023

Prof. Jigar M. Pandya
Assistant Professor,
Dept. of Computer Engineering.
Faculty of Technology
Dharmsinh Desai University, Nadiad

Dr. C. K. Bhensdadia
Head of the Department,
Dept. of Computer Engineering.
Faculty of Technology
Dharmsinh Desai University, Nadiad

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1. ABSTRACT

-> The car rental and sales application is a platform that allows users to easily rent or purchase Cars. The application provides a user-friendly interface, where users can browse a wide variety of cars, including hatchbacks, Small Sedan , luxury, and sports cars. Users can search for cars based on their preferred City, date, etc, for rental. The application also allows users to filter results based on car type, price range, and other preferences.

-> For car sales, the application offers a platform where users can list their cars for sale. The application provides a secure platform for sellers to connect with potential buyers and complete transactions online. The application offers a transparent and streamlined process, where buyers can browse through a range of cars and also can inquire directly to the owner of their preferred vehicles.

-> Overall, Car Rental And Sales Application Offers A Comprehensive Platform For Users To Easily Rent or Purchase Car, With Features That Enhance Overall Experience.

2. INTRODUCTION

2.1 Brief Introduction:-

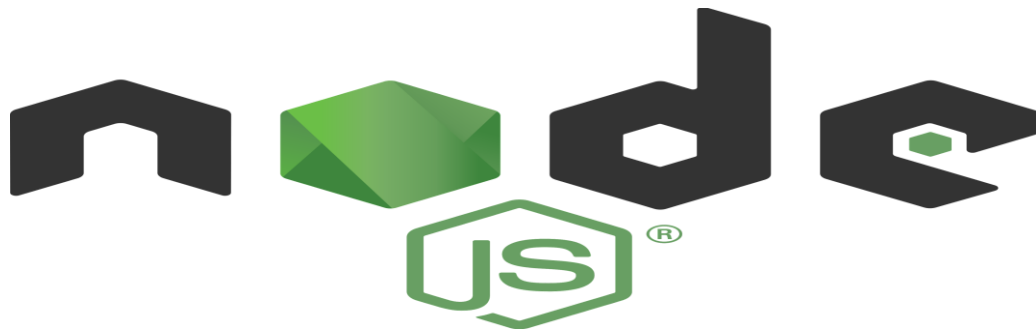
-> Our Aim Is to Design , Implement And Test A Car Rent And Sell System. This Enables User To List A Vehicle Of His Own For Rent. Which Can Be used By Another Customer. This System Also Allow User To Sell Their Car. Which Can Be Buy By Other Customer. This Web Application Has A Very User Friendly Interface. Thus The Users Will Feel Very Easy To Work On It. By Using This System Admin Can Manage Customer and Car details. The Car Information Can Be Added To The System By User. And Existed Car Information Can Be Edited Or Deleted Too By Admin Or Respective Car Owner.

-> We Try To Develop Application So That There Is No Much Delay In The Availability Of Any Car Information, Whenever Needed, Car Information Can Be Captured Very Quickly And Easily. The Customers Can Also Use The System To Get Car On Rent Or Purchase The Car. The Customer Should Create A New Account For The First Time To Register Him/ Her Into The System ,Later On He/She Can Log Into The System With His/ Her Created Account. Then He/She Can Book The Available Cars For Rent Or Can Buy Available car .This System Will Helpful To The Admin As Well As To The Customer Also.

2.2 Technology, Tools and Platform :-

Technology :-

- **NodeJS**



Node.JS (Node) is an open source development platform for executing JavaScript code server-side. Node is useful for developing applications that require a persistent connection from the browser to the server and is often used for real-time applications such as chat, news feeds and web push notifications.

- **ExpressJS**



Express is a node JS web application framework that provides broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid web application. It's a layer built

on the top of the Node JS that helps manage servers and routes.

- **ReactJs**



React (also known as React.js or ReactJS) is a free and open source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta (formerly Facebook) and a community of individual developers and companies.

- **MongoDB**



MongoDB is a non-relational document database that provides support for JSON-like storage. The MongoDB database has a flexible data model that enables you to store unstructured data, and it provides full indexing support, and replication with rich and intuitive APIs.

Platform :-

- VS Code



Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications

Tools :-

- Postman



Postman is an [API](#) Platform for developers to design, [build](#), [test](#) and iterate their APIs.

3. SOFTWARE REQUIREMENTS SPECIFICATIONS

3.1 Product Scope

-> It Is Proposed To Develop A Application That Would Be Used By Users Who Register In System To Buy/Sell/Rent Him/Her Car And Manage Their Car Data. The Following Is An Informal Description Of The Requirements Of This Application As Worked Out By The Team Members To Develop The Functional And Non-Functional Requirements For The Software.

-> A Normal User Can Manage His Or Her Car, They Can Buy/Sell Or Rent The Car Or The Can Give The Review About Their Experience With Application. They Can Edit Their Personal Information. Admin Has All The Access Of Application He Can Edit All The Data Of User Or Data Of Car.

3.2 Types Of User

-> Here, There Are Two Type Of User Admin And Customer (End-User).

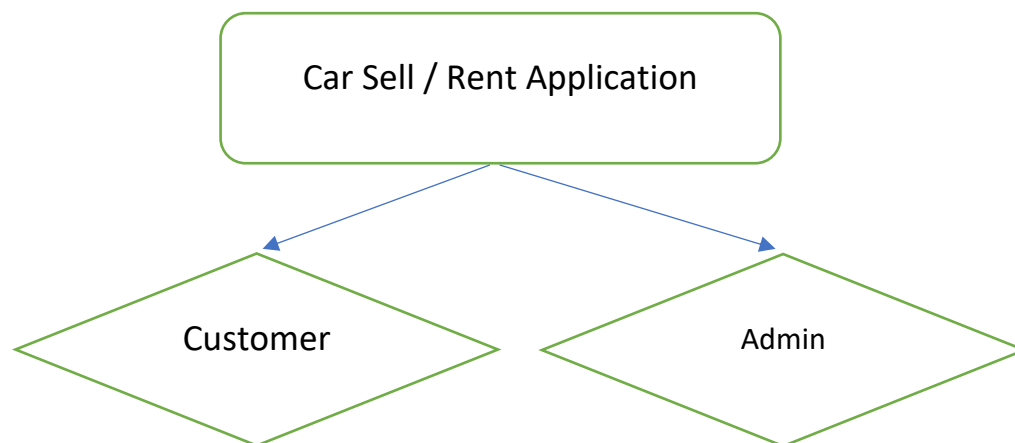


Fig. 3.2: Product Perspective Diagram

i) FUNCTIONAL REQUIREMENTS

1) Mange Registration :

R.1.1 : New User Registration:

->

Description : Using This User Can Register His/Her Self In System.

Input : All Necessary Details.

Output : Confirmation Message For User Successfully
Registered Or Error Response By Server In Case Of
Error.

R.1.2 : Forget Password :

->

Description : Using This User Can Know His Password .

Input : Enter your email id.

Output : E-mail Has Been sent By Server to email id,
Containing Link Where User Can Update Password

2) Login :

->

Description : This Process Allow Authorized Users To Access The System.

Input : Username and Password.

Output : Successfully Logged In / Invalid Username Or Password.

3) Manage Buy/Sell Car:

R.3.1 : By User :

R.3.1.1 : Buy Car :

->

Description : Using This Functionality User Can Buy A Particular Car.

Input : User Selection.

Output : Redirect to Detail Car Page For Particular Car.

R.3.1.2 : Show Availability of Car for Sell :

->

Description : Using this functionality User can see all available car For Sell.

Input : User Selection

Output : List of Car Available.

R.3.1.3 : Search Car :

->

Description : Using this functionality User can search car based on his/her requirement.

Input : User Selection

Output : List of Car Based on User's Selection.

R.3.1.4 : Sort Car :

->

Description : Using this functionality User can sort car based on price of car.

Input : User Selection

Output : List of Car Based on User's Selection.

R.3.1.5 : Add Car Details :

->

Description : Using this functionality User can Add Car Data.

Input : User Selection

Output : Appropriate Success Or Unsuccess Response From

The Server.

R.3.1.6 : Update Car Details :

->

Description : Using this functionality User can Update Car Data Which he/she added for Sell/Rent.

Input : New Details Of Car.

Output : Appropriate Success Or Unsuccess Response From The Server.

R.3.1.7 : Delete Car Details :

->

Description : Using this functionality User can Delete Car Details.

Input : User Selection.

Output : Appropriate Response From The Server.

R.3.2 : By Admin :

R.3.2.1 : Show Availablity of Car for Sell :

->

Description : Using this functionality Admin can see All Car Listed For Sell Or Rent.

Input : Admin Selection

Output : List of Listed Car For Sell Or Rent.

R.3.2.2 : Update Car Details :

->

Description : Using this functionality Admin can Update Car Data added By User for Sell/Rent.

Input : New Data Of Car.

Output : Appropriate Response From The Server.

R.3.2.3 : Delete Car Details :

->

Description : Using this functionality Admin can Delete Car Details.

Input : Admin Selection.

Output : Appropriate Response From The Server.

4) Manage Review:

R.4.1 : For User :

R.4.1.1 : Add Review :

->

Description : Using This Functionality User Can add Review based on his/her Experience on Application.

Input : Enter user's name, email and some Description .

Output : Review Added Successfully.

R.4.2 : For Admin :

R.4.2.1 : View Review :

->

Description : Using this functionality Admin can View Review Which is added by user.

Input : Admin Selection.

Output : All Reviews Added By User.

5) Manage User Profile

R.5.1 : For User :

R.5.1.1 : Show User Data :

->

Description : Using this functionality User can see His / Her Profile

Input : User Selection

Output : Detail Of User.

R.5.1.2 : Update User Details :

->

Description : Using this functionality User can Update His/Her Details.

Input : New User Details.

Output : Appropriate Response From The Server.

R.5.1.3 : Delete User Details :

->

Description : Using this functionality User can Delete His/Her Account From System.

Input : User selection.

Output : Appropriate Response From The Server.

R.5.2 : For Admin :

R.5.2.1 : Show User Data :

->

Description : Using this functionality Admin can see All User Registered In The System.

Input : Admin Selection

Output : List of Registered User Into System.

R.5.2.2 : Update User Details :

->

Description : Using this functionality Admin can Update User Data.

Input : New Data Of User.

Output : Appropriate Response From The Server.

R.5.2.3: Delete User Details :

->

Description : Using this functionality Admin can Delete Any User From The System.

Input : Admin Selection.

Output : Appropriate Response From The Server.

6) Manage Payment:

->

Description : Using This Functionality User Can Make Payment Online For Buy Or Rent Car.

Input : Multiple Type Of Payment Option Available For
Example UPI/Debit/Credit Card Etc.

Output : Due To Not Having Access Of Real Time Razorpay
Key Real Time Transaction Can Not Be Done.

ii) NON - FUNCTIONAL REQUIREMENTS

N.1 Usability : The system should Be a user-friendly , with clear instructions for all actions. Users should be able to Work On Any Functionalities Without Having Much Prior Knowledge About Same.

N.2 Database : A data base management system that is available free of cost in the public domain should be used as Database. In this we are using MongoDB Atlas as Database.

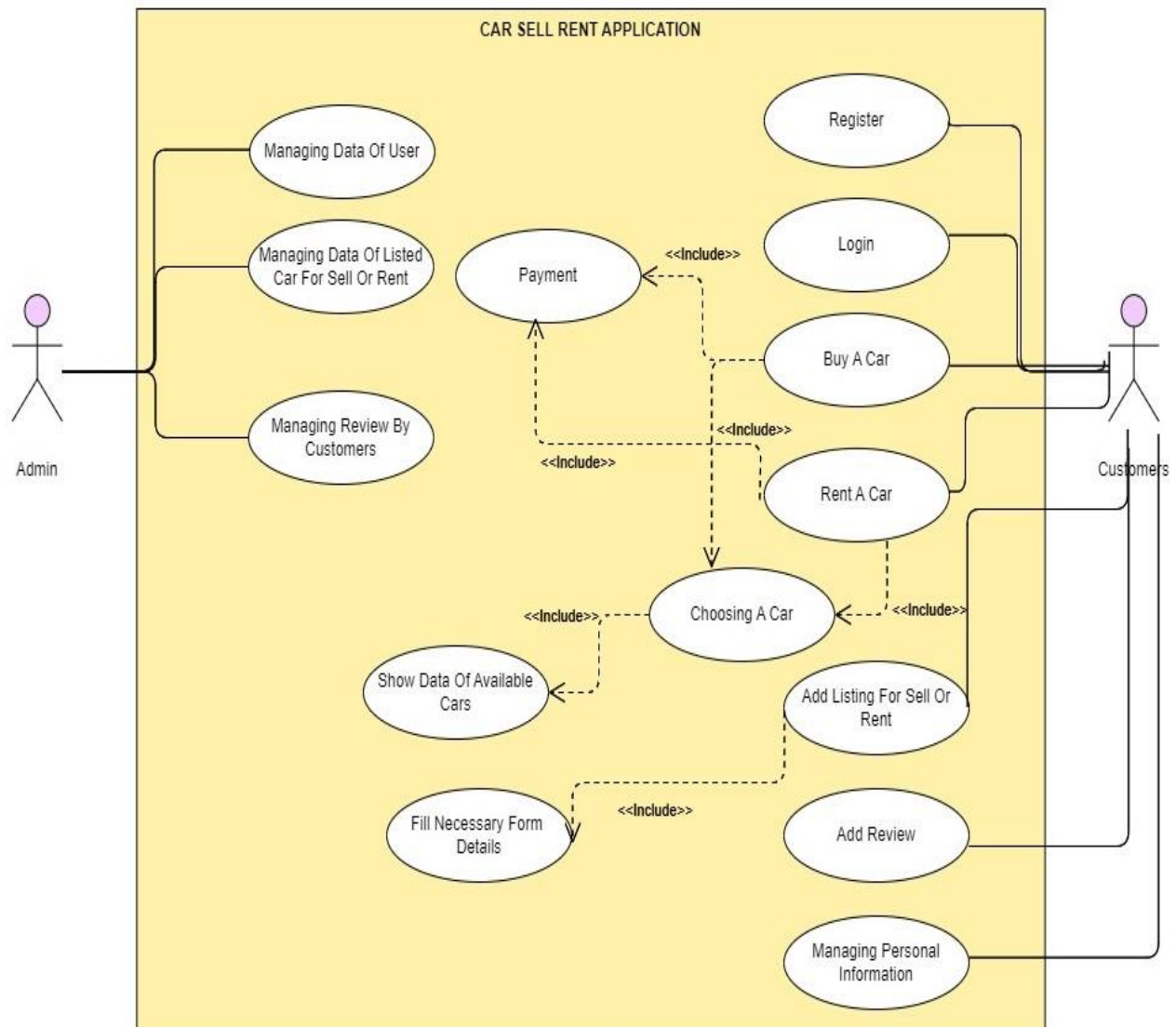
N.3 Reliability : The system should be reliable, There Should Not Be Much Delay For Sending Any Type Of Response By Server.

N.4 Security: The system should be secure, with appropriate measures in place to protect user data from unauthorised access.

4. Design

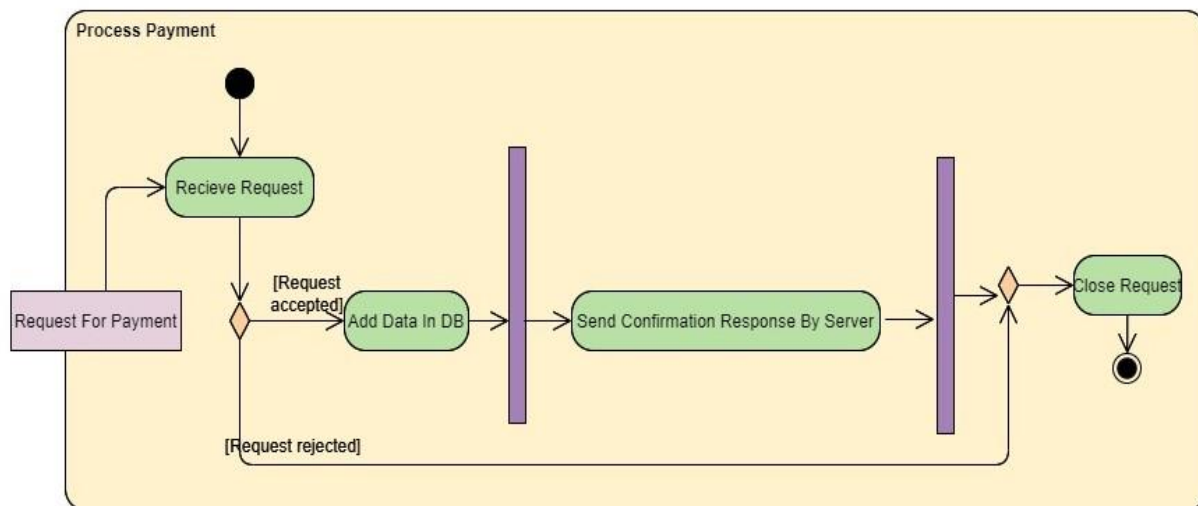
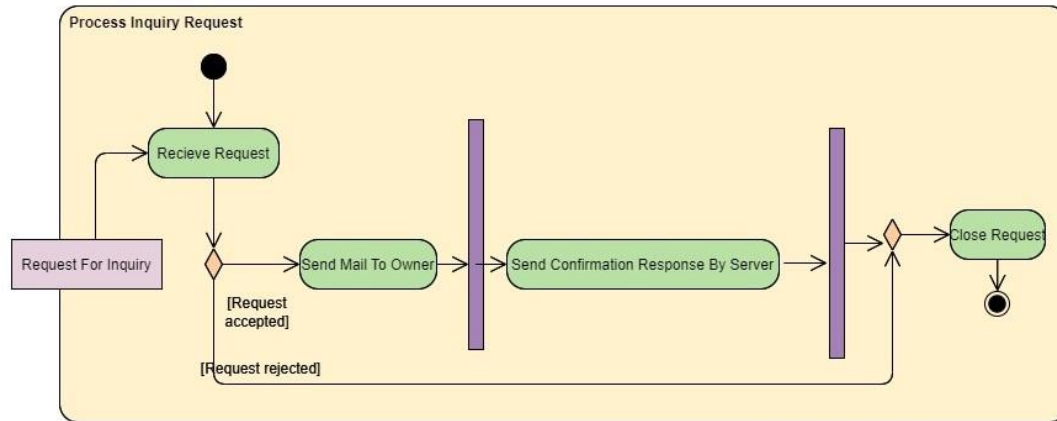
i) Use Case Diagram :

->



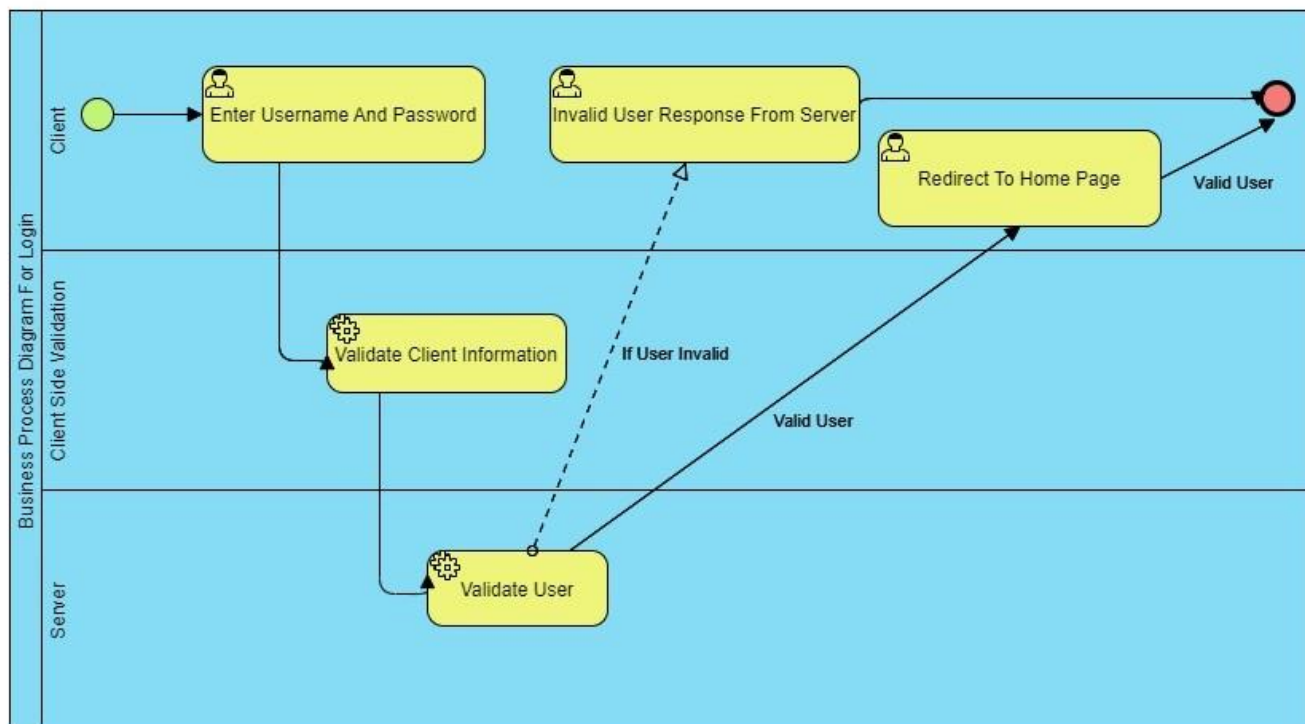
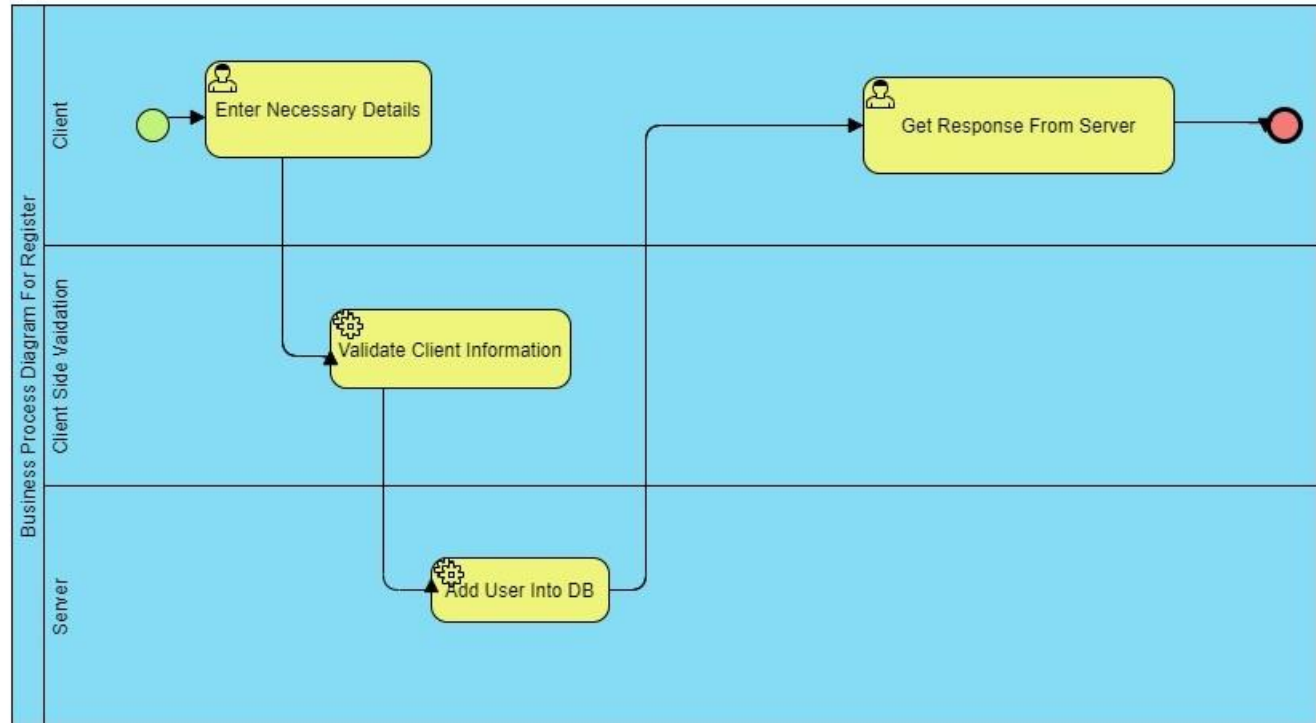
ii) Activity Diagram :

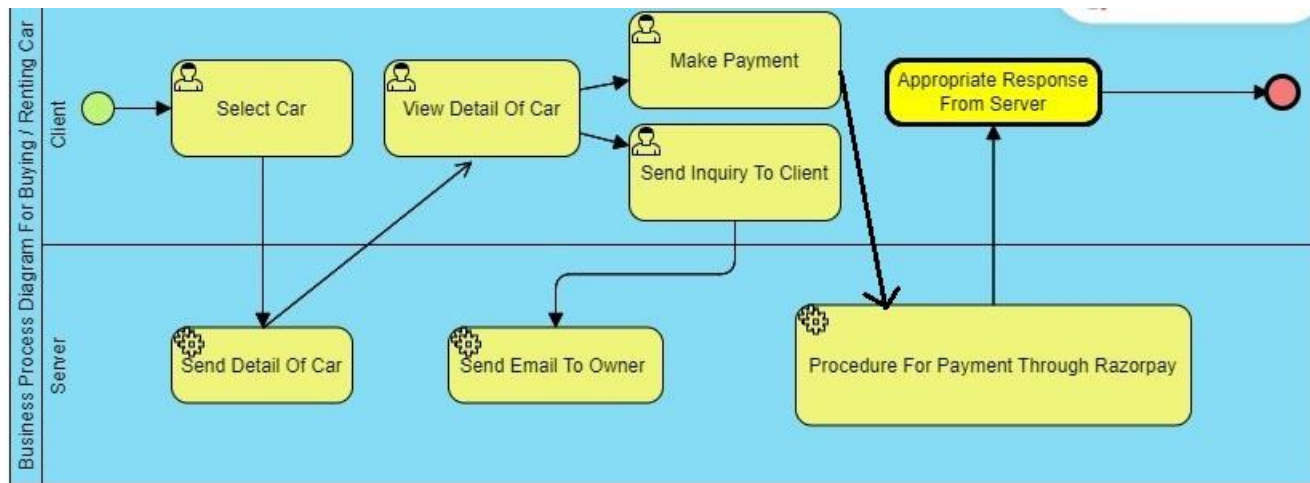
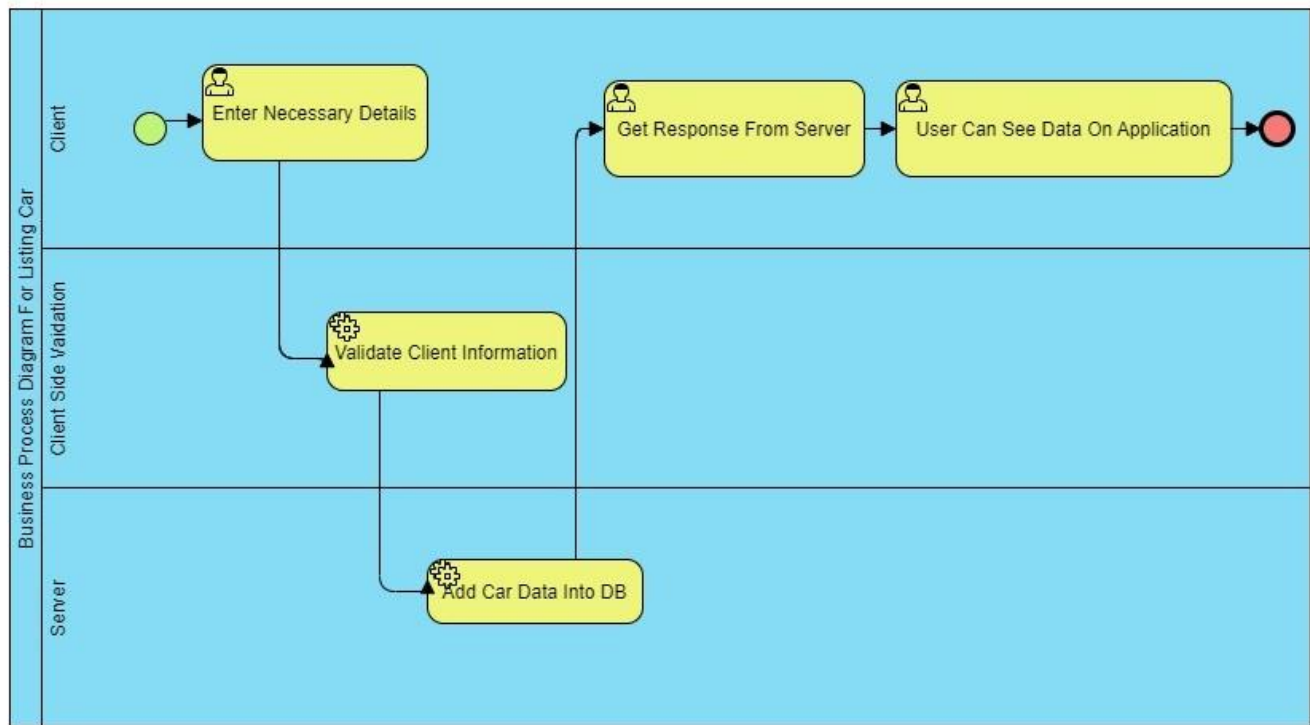
->



iii) Business Process Diagram :

->





iv) Data Dictionary :

Customer			
Sr no.	Field Name	Datatype	Required
1	Name	String	Yes
2	Mobile.no	String	Yes
3	Email	String	Yes
4	Address	String	Yes
5	Password	String	Yes
6	Confirm Password	String	Yes

Sell_car			
Sr no.	Field Name	Datatype	Required
1	Customer_Id	String	Yes
2	Customer_Name	String	Yes
3	Mobile.no	String	Yes
4	Email	String	Yes
5	Car_Name	String	Yes

6	Company_Name	String	Yes
7	Model_year	String	No
8	Color	String	Yes
9	Address	String	Yes
10	Category	String	Yes
11	Price	Number	Yes
12	No_of_Seats	Number	Yes
13	Fuel_Type	String	Yes
14	Vehicle_Availability	String	Yes
15	Image1	String	Yes
16	Image2	String	Yes
17	Image3	String	Yes
18	Image4	String	Yes

Rent_car			
Sr no.	Field Name	Datatype	Required
1	Customer_Id	String	Yes
2	Customer_Name	String	Yes

3	Mobile.no	String	Yes
4	Pickup_place	String	Yes
5	Email	String	Yes
6	Car_Name	String	Yes
7	Company_Name	String	Yes
8	Model_year	String	No
9	Color	String	Yes
10	Address	String	Yes
11	Category	String	Yes
12	Price	Number	Yes
13	No_of_Seats	Number	Yes
14	Fuel_Type	String	Yes
15	Vehicle_Availability	String	Yes
16	First_date_availability	Date	Yes
17	Second_date_availability	Date	Yes
18	Image1	String	Yes
19	Image2	String	Yes
20	Image3	String	Yes

21	Image4	String	Yes
----	--------	--------	-----

Review			
Sr no.	Field Name	Datatype	Required
1	Customer_Id	String	Yes
2	Customer_Name	String	Yes
3	Email	String	Yes
4	Review	String	Yes

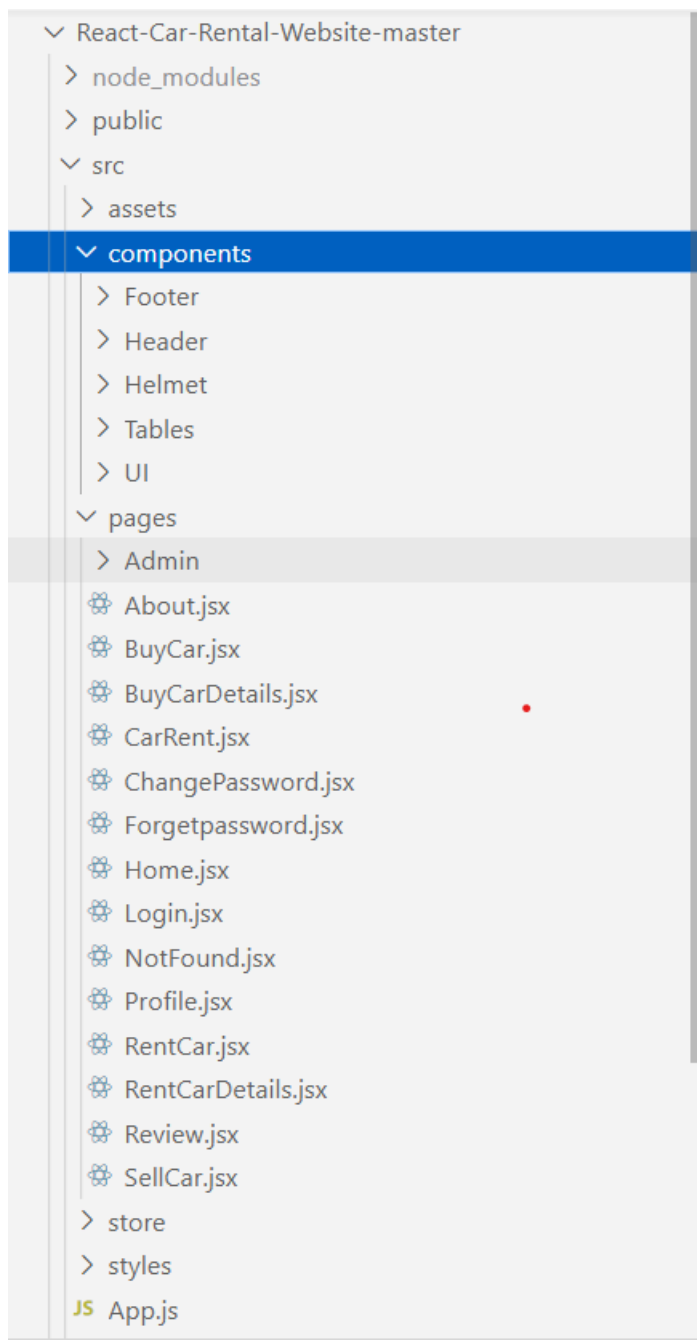
Payment			
Sr no.	Field Name	Datatype	Required
1	Car_Id	String	Yes
2	Buyer_Name	String	Yes
3	B_Mobile_no	String	Yes
4	Seller_Name	String	Yes
5	S_Mobile_no	String	Yes
6	Date	Date	Yes
7	Price	Number	Yes

5. Implementation Details :

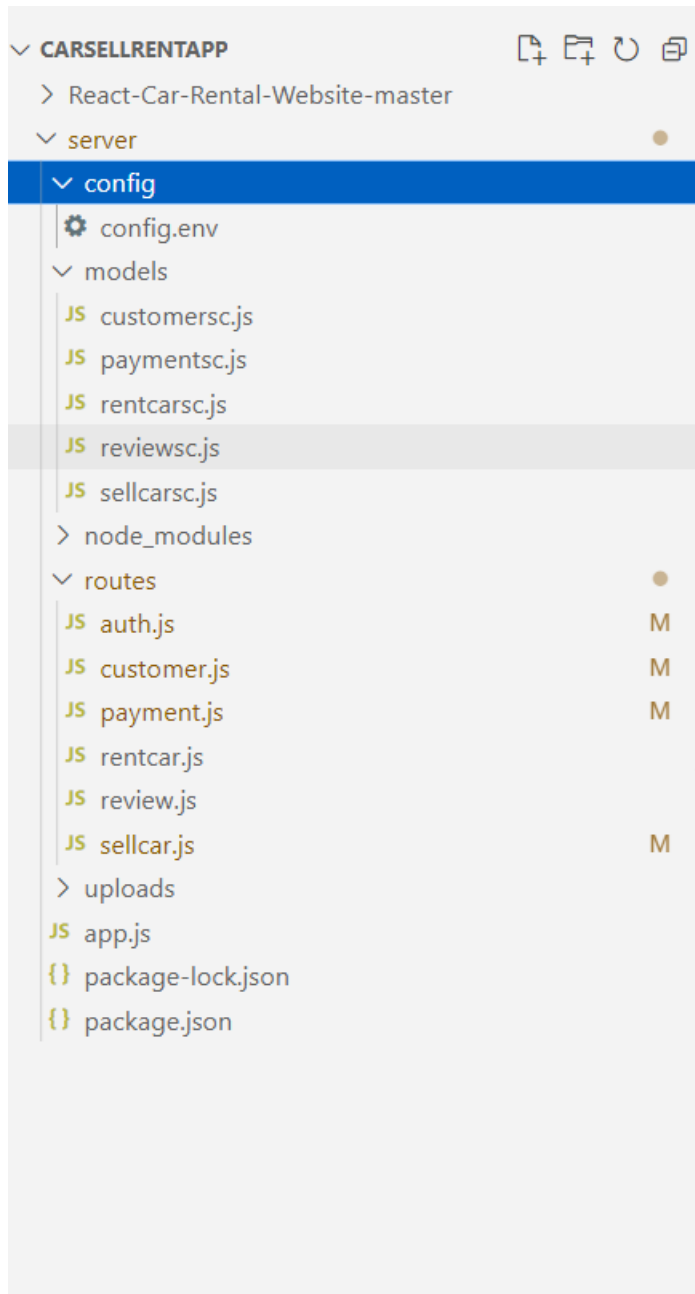
->

Folder Structure :-

1) Client :-



2) Server :-



-> NPM (Package) Dependencies Use In Development :-

- 1) bcrypt
- 2) bcryptjs
- 3) cors
- 4) dotenv
- 5) express
- 6) jsonwebtoken
- 7) moment
- 8) mongodb
- 9) mongoose
- 10) multer
- 11) nodemailer
- 12) nodemon
- 13) razorpay
- 14) Axios
- 15) bootstrap
- 16) react
- 17) react-crud-table
- 18) react-script
- 19) styled-component

-> Github Repository Link :-

<https://github.com/vatsalvasani/CarSellRent-2023.git>

6. Testing :

6.1 Testing Method Used :

-> For testing purpose, we used black box testing method.

For black box testing, we have designed the test cases for each sub project and have tested it in our application. Also, we have observed the output and note down the results in the next section.

6.2) Test Cases :

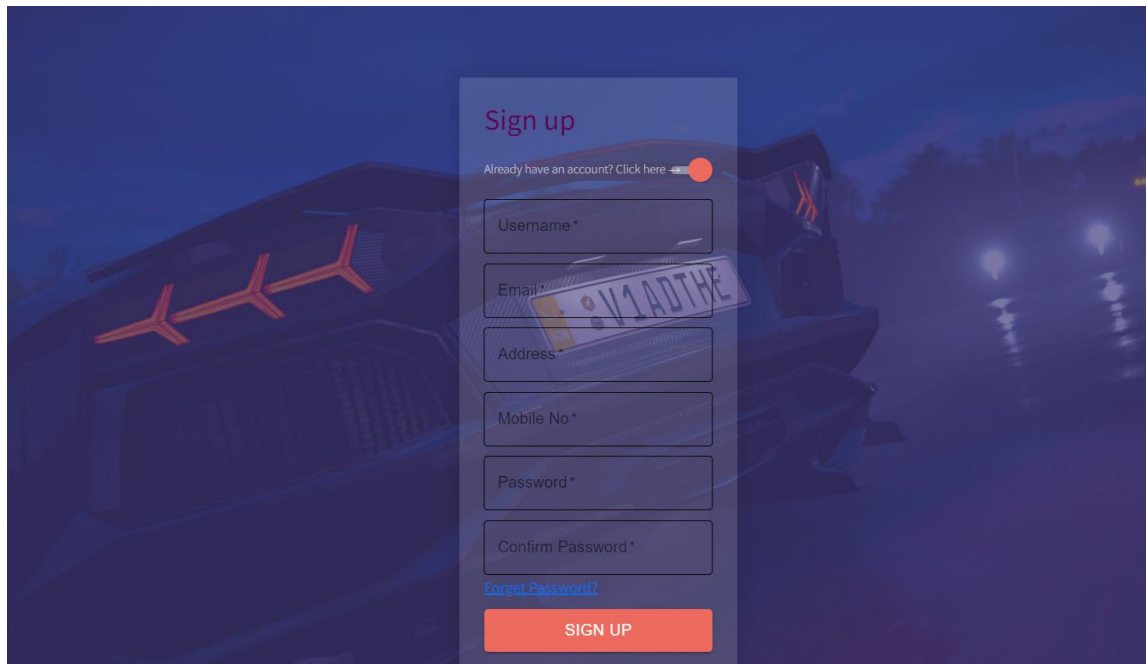
->

Sr No	Test Scenario	Expected Results	Actual Result	Status
1.	Login in with the correct credentials	User should be able to log in.	User is logged in and redirected to home screen	success
2.	Login with incorrect credentials	User should not be able to logged in	System give a message to user and Keep User In same page	success
3.	Register with correct details	User should be able to register in our system.	User is successfully register into system	success
4.	Register with Email Id Which Is Already Registered details	User should not be able to Register in our system	System give a message to user and keep User in Same page	success

5.	Add Car for rent or sell	Car added successfully	Alert box showing with success message	success
6.	Add Review	All the field should be filled	Review added successfully	success
7.	Update Profile	Profile Updated successfully	Alert box showing with success message	success
8.	Send Enquiry For Client	Owner Should Get Email From Company's Email Id.	Owner Get Email From Correct Email Id	success
9.	Try For Payment By Scanning QR Code	UPI Id Is Invalid	UPI Id Is Invalid In Google Pay	success
10.	Logout	User or Admin will be logged out from the system and restricted To Access Data from the system until next login	User or Admin will successfully logged out from the system And Unable TO Get Data On Backward Button.	Success

7. Screenshots :

1.User Registration



A screenshot of a user registration form titled "Sign up" overlaid on a dark, stylized background of a car at night. The form includes a link "Already have an account? Click here" with a left-pointing arrow. Below this are input fields for "Username*", "Email*", "Address*", "Mobile No*", "Password*", and "Confirm Password*". A blue link "Forget Password?" is positioned below the password fields. At the bottom is an orange "SIGN UP" button.

Sign up

Already have an account? Click here ←

Username*

Email*

Address*

Mobile No*

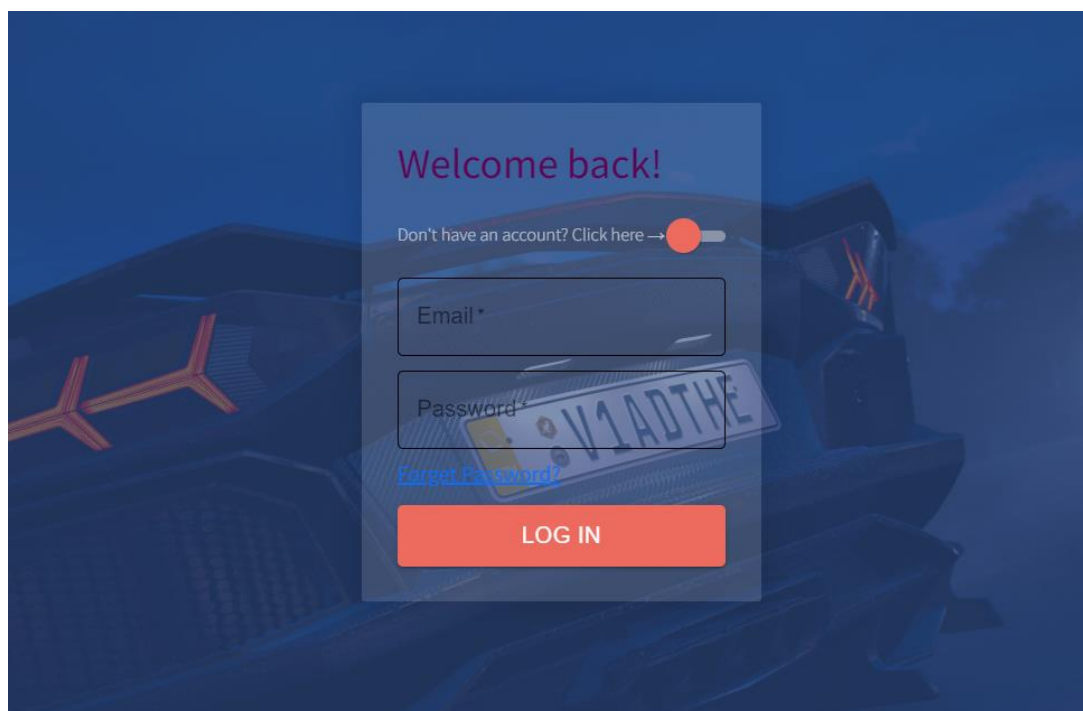
Password*

Confirm Password*

[Forget Password?](#)

SIGN UP

2.User Login



A screenshot of a user login form titled "Welcome back!" overlaid on the same dark, stylized background. The form includes a link "Don't have an account? Click here" with a right-pointing arrow. Below this are input fields for "Email*" and "Password*". A blue link "Forget Password?" is positioned below the password field. At the bottom is an orange "LOG IN" button.

Welcome back!

Don't have an account? Click here →

Email*

Password*

[Forget Password?](#)

LOG IN

3.Forget Password

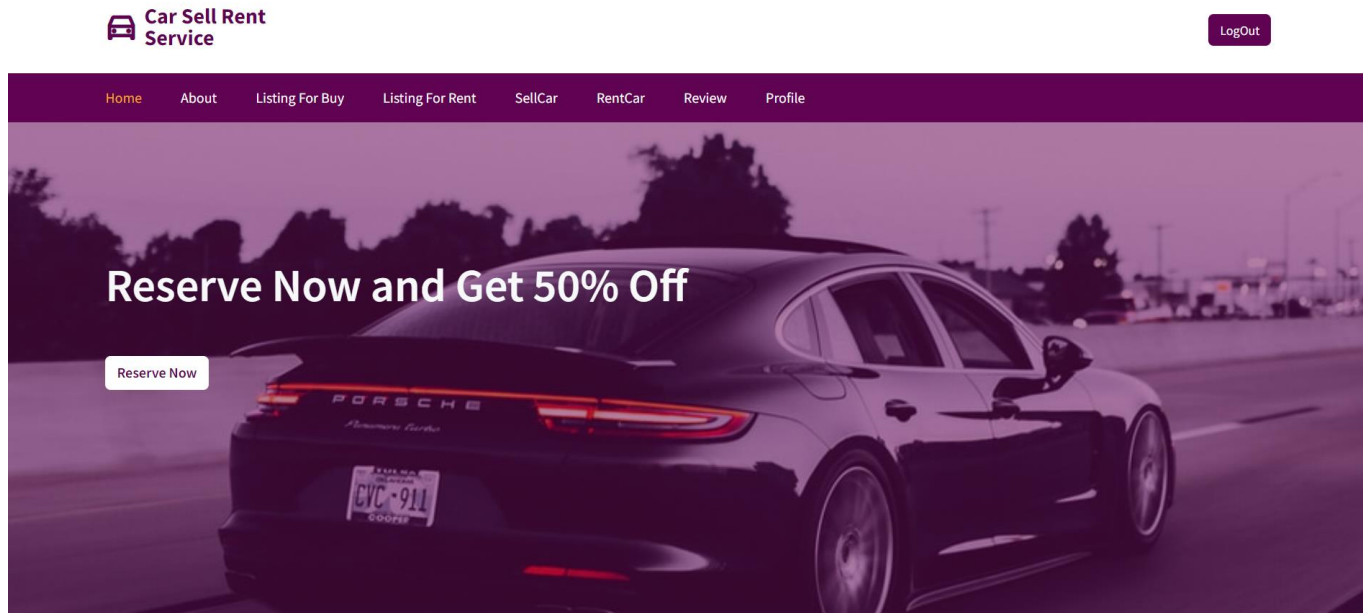
Forget Password

Enter Your Email Address

Send Email

-> User side :

4.Home Page



Reserve Now and Get 50% Off

Reserve Now

Find your best car
here

Pick up City

Petrol

dd-mm-yyyy

Car Name

Mini Hatchbacks

Find Car

Come with
Best Offers For Buy Car



Mercedes

4000000 INR

2010

Patrol

Executive Segment

Buy

Details



Audi Q7

2000000 INR

2010

Patrol

Executive Segment

Buy

Details



Audi Q7

3000000 INR

2010

Patrol


Executive Segment

Buy

Details

Come with


Best Offers For Rent Car



Swift
250 INR/day

🚗 2003 ⚙️ Petrol ⌚ 2023-02-06T00:00:00.000Z


[Rent](#) [Details](#)



Swift
200 INR/day

🚗 2003 ⚙️ Petrol ⌚ 2023-02-06T00:00:00.000Z

[Rent](#) [Details](#)




Alto
300 INR/day

🚗 2003 ⚙️ Petrol ⌚ 2023-02-06T00:00:00.000Z

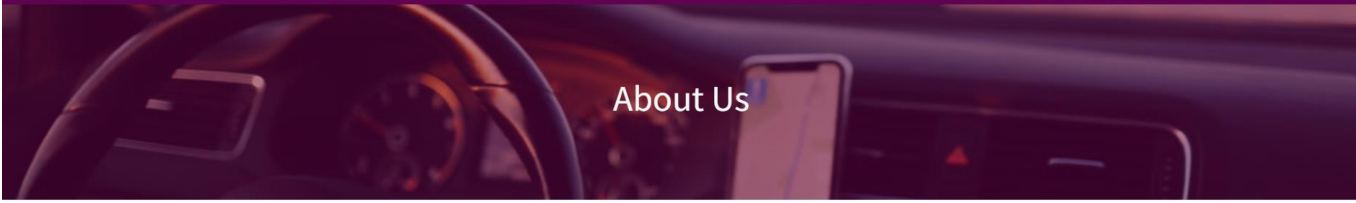
[Rent](#) [Details](#)

5.About Page

 **Car Sell Rent Service**

Logout

[Home](#) [About](#) [Listing For Buy](#) [Listing For Rent](#) [SellCar](#) [RentCar](#) [Review](#) [Profile](#)




About Us

About Us

Welcome to car sell and rent service


We Are Happy To See You Here. We Help Our Customer To Let Them Get What They Want In Best Possible Way.And We Are Happy To Announce That Till Now And We Are Happy To Share That Till Now We Serve More Then 10000 Customers In Best Possible Way And We Are Glad To Announce That As A Responsible Group Our 10% Revenue Goes To Charity.

✔ Good Service ✔ Good Quality



6.List for Buy Page


Sort By Select



Mercedes
4000000 INR

2010 Petrol Executive Segment


BuyDetails



Audi Q7
2000000 INR

2010 Petrol Executive Segment

BuyDetails



Audi Q7
3000000 INR


2010 Petrol Executive Segment

BuyDetails

6.List for Rent Page




Sort By Select



Swift
250 INR/day

2003 Petrol 2023-02-06T00:00:00.000Z


RentDetails



Swift
200 INR/day

2003 Petrol 2023-02-06T00:00:00.000Z

RentDetails



Alto
300 INR/day

2003 Petrol 2023-02-06T00:00:00.000Z

RentDetails

7) Detail Car page :

Mercedes

4000000 INR/
Day

Fuel Type : Patrol
Car Category : Executive
Segment
No. Of Seats : 4

Owner Name : vatsal
Owner MobileNo. : 8999999999
Owner Email : vatsalvasani22882@gmail.com

2010 Blue
 Mercedes Benz

Send Enquiry

First Name

Last Name

Email@abc.com

9999999999

Inquire To Owner

Send


Payment Information

Direct Bank Transfer
UPI Payment
Debit Card
Paypal





Reserve Now


8) Payment page :







Car Sell Rent Applic...

Pay With UPI QR








Scan the QR using any
UPI app on your phone.


   


QR Code is valid for
10:28 minutes

Cards, UPI & More

 Card
Visa, MasterCard, RuPay, and Maestro

 UPI / QR
   & More

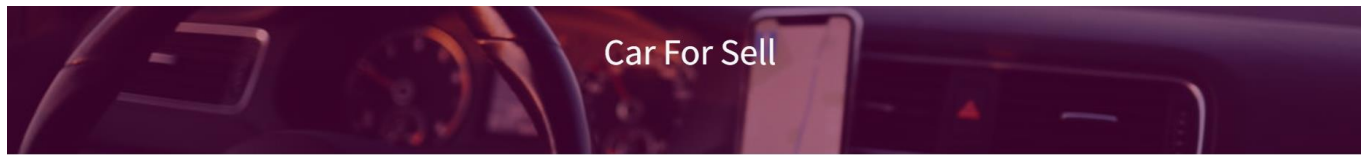
 Netbanking
All Indian banks

 Wallet
Mobikwik & More

₹ 4
[View Details](#)

Pay Now

9) Listing Car For Sell :



<input type="text" value="Your Name"/>		<input type="text" value="Email"/>	
<input type="text" value="Address"/>			
<input type="text" value="Mobile No."/>		<input type="text" value="Car Name"/>	
<input type="text" value="Model Year"/>	<input type="text" value="Color"/>	<input type="text" value="CompanyName"/>	
<input type="text" value="No Of Seats"/>		<input type="text" value="Price"/>	
<input type="text" value="Executive Segment"/>		<input type="text" value="Patrol"/>	<input type="text" value="True"/>
<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>		<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>	
<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>		<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>	
<input type="button" value="Publish For Sold"/>			

10) Listing Car For Rent :



<input type="text" value="Your Name"/>		<input type="text" value="Email"/>	
<input type="text" value="Address"/>			
<input type="text" value="Mobile No."/>		<input type="text" value="Car Name"/>	<input type="text" value="PickUp Place"/>
<input type="text" value="dd-mm-yyyy"/>		<input type="text" value="dd-mm-yyyy"/>	
<input type="text" value="Model Year"/>	<input type="text" value="Color"/>	<input type="text" value="CompanyName"/>	
<input type="text" value="No Of Seats"/>		<input type="text" value="Rent Per Day"/>	
<input type="text" value="Executive Segment"/>		<input type="text" value="Patrol"/>	<input type="text" value="True"/>
<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>		<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>	
<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>		<input type="button" value="Choose Files"/> <input type="text" value="No file chosen"/>	
<input type="button" value="Publish For Sold"/>			

11) Add Review :

[Home](#) [About](#) [Listing For Buy](#) [Listing For Rent](#) [SellCar](#) [RentCar](#) [Review](#) [Profile](#)

Review

Your Review Is Valuable For Us

Send Message

Contact Information

111 College Road,Nadiad


Phone: +91 99999 88888

Email: carsellrent@gmail.com

Follow Us

[f](#) [@](#) [in](#) [t](#)

12). Profile Page

 **Car Sell Rent Service**

LogOut

[Home](#) [About](#) [Listing For Buy](#) [Listing For Rent](#) [SellCar](#) [RentCar](#) [Review](#) [Profile](#)

Your Information

User Id	User Name	Contact No	Email	Address	Actions
640ae86b330817d0b379e02e	mit	9313651515	mitvirani524@gmail.com	surat	<div>UpdateDelete</div>


Cars Info Added By You For Sell

Car Id	Customer Name	Mobile No.	Email	Address Of Owner	Car Name	Category	No. Of Seats	Fuel Type	Vehicle Availability	Company Name	Model Year	Color	Price	Actions
--------	---------------	------------	-------	------------------	----------	----------	--------------	-----------	----------------------	--------------	------------	-------	-------	---------

Cars Info Added By You For Rent

-> Admin Side :

1) Profile Page :


 Car Sell Rent Service

Logout

User Review Listing For Buy Listing For Rent

User Info

Car Id	Customer Name	Mobile No.	Email	Address Of Owner	Actions
63d39ab2f0c39f2537fdf59b	Vatsal	9999999999	vatsalextra0@gmail.com	74,Subham Row House ,Laskana Kamrej Road,Surat	<button>Update</button> <button>Delete</button>
640ae86b330817d0b379e02e	mit	9313651515	mitvirani524@gmail.com	surat	<button>Update</button> <button>Delete</button>
641442b0017ab6f9fefbdd8a	admin	9898989898	admin@gmail.com	surat	<button>Update</button> <button>Delete</button>


 Car Sell Rent Service

We Car Sell Rent Service Is Biggest Car Selling Renting Company In India In Very Few Years We Create Milestone By Serving More Then 10000 Customer And As An Responsible Group We Donate Our 10% Profit In The Charity We Try Our

Head Office

111 College Road, Nadiad, Gujarat,India.
Phone: +91 99999 88888
Email: carsellrent@gmail.com
Office Time: 10am - 7pm

2) Review Page :


 Car Sell Rent Service

Logout

User Review Listing For Buy Listing For Rent

Review Add By User

Review Id	Customer Name	Email	Review	Actions
63f6473fb20b7f30f9255e73	vatsal	vatsalvasani282@gmail.com	Very Good Facility.....	<button>Update</button> <button>Delete</button>
63f884f7e02f3efe7ef6d179	mit	meetvirani310@gmail.com	dffcvf	<button>Update</button> <button>Delete</button>
64202c0767eb3aecf977db33	mit	mitvirani524@gmail.com	hi apc	<button>Update</button> <button>Delete</button>

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8. Conclusion :

-> Our car sell/rent application provides a convenient and user-friendly platform for buyers and renters to search Car for purchase or rent vehicles. The application's features, such as search filters and payment options, make the car buying/renting experience easy and User Friendly. Additionally, the application's seller/owner tools allow individuals to easily list their vehicles for sale or rent, connecting them with interested buyers or renters. Overall, our car sell/rent application is a valuable resource for both buyers and sellers in the automotive market.

-> Car Sell-Rent Service is a easy-to-use With good user interface, and great user experience project which is created With MERN Stack technology . It provides many functionality to the user As Describe In SRS Section. Core Functionalities that are implemented successfully in our system.

- User Registration
- User Login
- Forget password
- Add Car Detail for Sell/Rent
- Add Review
- Sort and Search for Car
- Update Car Details for Sell/Rent
- Update or Delete User Profile

- Delete Car Details
- Delete user Account
- Send Enquiry To Owner Through Mail
- Payment

9. Limitation and future extension of system:

-> Limitations :

1. Here we don't Have More Realistic payment feature Because Of Razorpay's Testing Mode.
2. We Don't Implement Any Kind Of Advance Algorithm So That It Shows Car Base On User Interest Through His Searches.

-> Future Extension :

1. Later On We Can Make Payment Feature More Realistic By using API Of Any Payment Gateway Such As Razorpay.
2. Later On We Can Implement One Advanced Algorithm Which Can Track User's Search Activity And Based On That It Shows Available Option Of Car To Particular User

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