Vimal Tormal Poddar BCA College

Affiliated with VEER NARMAD SOUTH GUJARAT UNIVERSITY.



PROJECT REPORT ON Car Solution

As a Partial Requirement For The Degree

Of

Bachelor Of Computer Application

(B.C.A.)

Year:2023-24

Guided by:-

Dr. Ishaan Tamhankar Assistant Professor

Submitted By:-

1.Biren Gohel	BCA(SEM-VI)	SEAT NO.:2941
2.Vishv Vamja	BCA(SEM-VI)	SEAT NO.:3114
3.Manthan Zinzuvadiya	BCA(SEM-VI)	SEAT NO.:3122
4.Jainish Kanpariya	BCA(SEM-VI)	SEAT NO.:2965
5.Banti Tiwari	BCA(SEM-VI)	SEAT NO.:3102



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Ch:-1 Introduction

1.1.Project Profile:-

Project Title	Car Solution				
Project Definition	1. Admin Panel:-				
Project External Guide	Dr.Ishaan Tamhankar				
Front End	HTML, CSS, JavaScript, Bootstrap, Media Query				
Back End	PHP(Hypertext Preprocessor), MYSQL				
Operating System	Windows 10 (64 bits)				
Submitted By	Biren Gohel Vishv Vamja Manthan Zinzuvadiya Jainish Kanpariya Banti Tiwari				

1.2.Project Introduction:

- ✓ Car Solution includes designing, developing, manufacturing, marketing, selling or making all kinds of solutions related to car or much more.
- ✓ The invention of cars had started a long time ago, but the first application for patenting a car was given by **Karl Benz on January 29, 1886** for his gas engine-powered car.
- ✓ The first use of the English word 'CAR' is believed to be around 1300 century, but with the changing times it took a long time to come into practical use.
- ✓ Like the history of the car, the story of the etymology of this word (CAR) is also very interesting, which changed with time and today the whole world addresses a four-wheeler as 'Car'.
- Researching the history of the **etymology** of the word car has revealed that it was derived from the Latin word **Carrus** or **Carrum**, which means vehicle with wheels and the word Vehicle also has its origin in Latin, in the Latin word **Vehiculum** and in English **Vehicle** and **Vahan** became in Hindi, all these meanings indicate what is the true meaning of **Car** in the end.
- ✓ Car or Automobile Initially, there is a word in English (Cart) which means horse-drawn carriage or carriage.
- ✓ The first car to come to India in 1897 was the Crompton Greaves owned by an Englishman named Boss Foster. However, the very next year Mr. Jamsetji Tata of Tata Group became the first Indian to own a car in the country, he is the founder of Tata Group.



Ch:-2 Environment Design

2.1.Software Detail:-

→ To develop this website following software are used OPERATING SYSTEM: Microsoft windows 10 professional.

2.1.1. Client-Side Tools:-

- > Software:-
 - ✓ Browser:- Google Chrome
 - ✓ Operating System:- Microsoft Window 10
- > Hardware:-
 - ✓ Processer:- 7th Generations
 - ✓ Ram:-8 GB
 - ✓ Hard disk:- 1TB
 - ✓ Monitor:- Hp
 - ✓ Keyboard:- 80+ Keys
 - ✓ Mouse:- Touch Pad

2.1.2. Server-Side Tools:-

- > Software:-
 - ✓ Browser:- Google Chrome
 - ✓ Wamp
 - ✓ Apache Server
 - ✓ MYSQL Server 15.1
 - ✓ PHP 5.6.30
- > Hardware:-
 - ✓ Processer: 7th Generations
 - ✓ Ram: 8 GB
 - ✓ Hard disk: 1TB
 - ✓ Monitor: Hp
 - ✓ Keyboard: 80+ Keys
 - ✓ Mouse: Touch Pad

2.1.3. Development-Side Tools:-

> Software:-

✓ Front End: web Designing✓ Back End: PHP, MYSQL

≻ Hardware:-

✓ Processer: 7th Generations

✓ Ram: 8 GB✓ Hard disk: 1TB✓ Monitor: Hp

✓ Keyboard: 80+ Keys ✓ Mouse: Touch Pad

2.2.Tools & Technology:-

2.2.1.Core Technology:-

PHP is one of the driving technologies on the web. More than 80 percent of the world's websites are based on the scripting language. With the release of PHP 8 this year, it becomes even more relevant: With better performance, great new features.

- > HTML
- > CSS
- > MYSQL

2.2.2.Extra Tools :-

PHP web development is one among several web development

Methods that will never fade away. With every passing year, it has become the most trusted platform for developers and companies for website development.

- > j-Query
- JavaScript
- Media Query
- Bootstrap

2.3.Devlopment Description:-

- ✓ PHP, which stands for Hypertext Preprocessor, is a widely-used open-source scripting language that is particularly well-suited for web development and can be embedded into HTML. Originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994, PHP has since evolved into a powerful tool for building dynamic and interactive websites.
- ✓ One of the key features of PHP is its versatility. It can be used to perform a wide range of tasks, from simple form processing and database interactions to complex web applications and content management systems. PHP code is executed on the server, which means that it can generate dynamic content before sending it to the client's web browser. This allows for the creation of dynamic web pages that can change in response to user input or other external factors.
- ✓ PHP is also known for its ease of use and flexibility. Its syntax is similar to that of C and Perl, making it relatively easy for developers to learn and use. Additionally, PHP is compatible with a wide range of web servers and operating systems, including Linux, Windows, and macOS. This makes it an ideal choice for developing web applications that need to run on different platforms.
- Another strength of PHP is its extensive ecosystem of libraries, frameworks, and extensions. These tools provide developers with ready-made solutions for common tasks, such as working with databases, handling user authentication, and managing session data. Popular PHP frameworks include Laravel, Symfony, and CodeIgniter, which streamline the development process by providing a set of prebuilt components and conventions.
- Security is a crucial consideration in web development, and PHP provides several features to help developers build secure applications. These include built-in functions for data sanitization and validation, as well as support for encryption and secure authentication mechanisms. However, like any programming language, PHP is not immune to security vulnerabilities, so developers must stay vigilant and follow best practices to mitigate risks.

✓ In recent years, PHP has **continued** to **evolve with regular updates and new features**. The latest versions of PHP have introduced improvements in performance, scalability, and language features, ensuring that it remains a relevant and powerful tool for web development in the modern era. Whether you're building a small personal website or a large-scale web application, PHP offers the flexibility and power you need to bring your ideas to life on the web.

2.3.1.PHP :-

-: What is PHP:-

- ✓ PHP, originally an acronym for "Personal Home Page," is now commonly referred to as "PHP: Hypertext Preprocessor." It is a widely-used, open-source server-side scripting language primarily designed for web development, but it can also be used as a general-purpose programming language.
- ✓ PHP scripts are executed on the server, generating dynamic web page content. This means that PHP code is processed before the resulting HTML is sent to the client's web browser. PHP can be embedded directly into HTML markup, making it easy to generate dynamic content within static web pages.
- ✓ PHP is known for its simplicity, flexibility, and ease of use, making it accessible to beginners while still offering advanced features for experienced developers. It has a vast ecosystem of frameworks, libraries, and tools that facilitate rapid development and simplify common tasks, such as interacting with databases, handling forms, and managing user sessions.
- ✓ PHP is compatible with various **operating systems**, including **Linux**, **Windows**, **and macOS**, and it can run on most **web servers**, such as **Apache** and **Nginx**. It supports integration with multiple **databases**, including **MySQL**, **PostgreSQL**, **SQLite**, and others.

✓ Over the years, PHP has evolved with regular updates and improvements, ensuring its relevance and competitiveness in the rapidly changing landscape of **web development**. It remains one of the most popular choices for building dynamic and interactive websites and web applications.

-: Why is PHP :-

- ✓ PHP is a simple, object-oriented, interpreted, robust, secure, very high performance, architecture neutral, dynamic scripting language.
- ✓ PHP is designed such that it is 5 times faster than Java, since there is no virtual machine.
- ✓ PHP is the best because it is object oriented and has the best features of C/C++/Java/PERL/Python.
- ✓ Quick development time and Very high performance.
- ✓ Exceptionally short learning curve.
 - The requirements of running a L.A.M.P server are minimal.
 - PHP is open source and community driven, so is the support and documentation that comes with it.
- ✓ PHP allows you to separate HTML code from scripted elements: you will notes a significant decrease in development time.

-: Advantage of PHP :-

- ✓ **Open Source:** PHP is open-source, making it freely available for developers worldwide, fostering collaboration and innovation.
- ✓ **Platform Independence:** PHP runs on various platforms, including Windows, Linux, macOS, ensuring flexibility and accessibility for developers.
- ✓ **Ease of Learning:** With a syntax similar to C and Perl, PHP is relatively easy to learn for developers familiar with these languages, reducing the learning curve.
- ✓ **Large Community Support:** PHP boasts a vast community of developers who contribute to its growth, providing abundant resources, tutorials, and forums for assistance.
- ✓ **Versatility:** PHP is versatile, suitable for a wide range of web development tasks, including dynamic websites, e-commerce platforms, content management systems (CMS), and more.
- ✓ **Integration Capabilities:** PHP integrates seamlessly with various databases like MySQL, PostgreSQL, MongoDB, enhancing its capability to build robust and scalable web applications.
- ✓ Performance: With advancements in PHP versions and optimization techniques, PHP offers improved performance, making it a reliable choice for high-traffic websites and applications.

2.3.2.MYSQL :-

- ✓ MySQL is a leading open-source relational database management system (RDBMS) renowned for its reliability, scalability, and performance. Developed by MySQL AB (now owned by Oracle Corporation), it powers countless applications and websites worldwide.
- ✓ With its robust feature set, MySQL offers comprehensive support for various data types, transactions, and indexing mechanisms, ensuring efficient data storage and retrieval. Its versatility allows it to handle diverse workloads, from small-scale projects to enterprise-level applications.
- ✓ MySQL's architecture supports client-server interactions, enabling multiple users to access databases simultaneously while maintaining data integrity through ACID (Atomicity, Consistency, Isolation, Durability) compliance.
- ✓ Furthermore, MySQL provides extensive security features, including user authentication, access control, and encryption, safeguarding sensitive data against unauthorized access and malicious threats.
- ✓ The vibrant MySQL community continually contributes to its development, offering an array of resources, documentation, and plugins that enhance its functionality and usability.
- One important highlight of MySQL is its robustness and scalability. MySQL is renowned for its ability to handle large volumes of data efficiently, making it suitable for both small-scale projects and enterprise-level applications. Its architecture allows for horizontal scaling, enabling seamless expansion as the data requirements grow, while maintaining high performance and reliability. This scalability feature makes MySQL a preferred choice for businesses and organizations seeking a flexible and dependable database solution.

-: Advantage of MYSQL :-

- ✓ **Open Source:** MySQL is an open-source database system, meaning it's freely available for anyone to use, modify, and distribute. This reduces costs associated with licensing fees and allows for greater flexibility in customization.
- ✓ **Reliability and Stability:** MySQL is known for its reliability and stability. It has been in use for decades and has a proven track record of powering mission-critical applications with minimal downtime.
- ✓ **Performance:** MySQL is optimized for speed and performance, making it ideal for high-traffic websites and applications. It uses efficient indexing and caching mechanisms to ensure fast data retrieval and processing.
- ✓ **Scalability:** MySQL can scale easily to accommodate growing data volumes and user loads. It supports replication, clustering, and sharding techniques for horizontal scaling, as well as vertical scaling by running on more powerful hardware.
- ✓ **Ease of Use:** MySQL is relatively easy to install, configure, and administer. It has a straightforward SQL syntax that developers find intuitive, and there are plenty of resources available online for learning and troubleshooting.
- ✓ **Compatibility:** MySQL is compatible with various operating systems, programming languages, and platforms. It supports popular programming languages like PHP, Python, and Java, as well as operating systems such as Linux, Windows, and macOS.
- ✓ **Security:** MySQL offers robust security features to protect sensitive data. It supports encryption, user authentication, access control, and auditing capabilities to ensure data confidentiality, integrity, and availability.
- ✓ **Community Support:** MySQL has a large and active community of developers, users, and contributors who provide support, documentation, and updates. This community-driven approach ensures that MySQL remains relevant, reliable, and up-to-date with the latest technologies and best practices.

2.3.3. PHP Server(Wamp Server) :-

- ✓ A WAMP server is a software stack used for local web development, combining Windows as the operating system, Apache as the web server, MySQL as the database management system, and PHP as the scripting language.
- ✓ PHP WAMP servers provide developers with a convenient and integrated environment for building and testing dynamic web applications on their Windows machines. Apache serves as the web server, handling HTTP requests and responses, while MySQL manages the database storage and retrieval. PHP, a server-side scripting language, enables developers to create dynamic content and interact with databases within their web applications.
- ✓ The WAMP stack offers a user-friendly interface for managing server configurations and services, allowing developers to quickly set up and configure their development environment without the need for extensive technical knowledge. It provides tools for monitoring server performance, configuring virtual hosts, and managing databases through graphical interfaces.
- ✓ With a PHP WAMP server, developers can simulate a production-like environment on their local machines, enabling them to develop, test, and debug web applications efficiently before deploying them to live servers. This setup accelerates the development process, improves collaboration among team members, and enhances overall productivity.
- ✓ PHP WAMP servers serve as invaluable tools for Windows-based developers, offering a convenient and feature-rich environment for developing dynamic web applications locally.

-: Advantage of WAMP Server :-

An advantage of a WAMP (Windows, Apache, MySQL, PHP) server is its ease of setup and use for local web development on Windows machines. This integrated stack provides several benefits:

- ✓ **Convenience:** WAMP servers offer a convenient and straightforward way to set up a local web development environment on Windows computers, eliminating the need to install and configure each component separately.
- ✓ **Integrated Environment:** With WAMP, all necessary components for web development—Apache as the web server, MySQL as the database management system, and PHP as the scripting language—are bundled together, ensuring seamless compatibility and ease of use.
- ✓ **Familiarity:** For developers accustomed to working on Windows platforms, WAMP provides a familiar environment for web development, reducing the learning curve and allowing for faster productivity.
- ✓ **Testing Environment:** WAMP servers enable developers to create and test web applications locally before deploying them to live servers, facilitating efficient debugging and troubleshooting in a controlled environment.
- ✓ **Cost-Effective:** WAMP is open-source software, meaning it's freely available for download and use, reducing costs associated with licensing fees for proprietary software.
- ✓ **Flexibility:** WAMP servers support various web development technologies and frameworks beyond PHP, such as Python and Perl, providing flexibility for developers to work with their preferred tools.
- ✓ **Community Support:** Being widely used, WAMP benefits from a large community of developers who contribute to its improvement, provide support, and share resources and tutorials, making it easier for developers to find solutions to problems they encounter.

Ch:-3 Proposed System

3.1.Scope :-

* Admin Side:-

- ✓ Admin Login Page
- ✓ Mechanic Login Page
- ✓ Manage visitor site
- ✓ Manage car booking data
- ✓ Manage Insurance Details
- ✓ Manage car service package
- ✓ Manage second hand car data
- ✓ Manage Road side Assistance (RSA) Service
- ✓ Manage Mechanic data
- ✓ Transfer RSA Request To mechanic Dashboard
- ✓ Manage car rental data
- ✓ Manage news data
- ✓ Manage mechanic data
- ✓ Manage Contact / About us data
- ✓ Manage Find Fuel Station data
- ✓ Manage Find EV Charging Station data

User Side:-

- ✓ Registration
- ✓ Login Logout
- ✓ Car Booking
- ✓ Car Rental service
- ✓ RSA Service
- ✓ Car insurance
- ✓ Purchase Car Service Package
- ✓ Purchase / sell second hand car
- ✓ Find Fuel Station
- ✓ Find EV Charging Station
- ✓ Contact us

***** Visitor Side:-

- ✓ Show Functionality
- ✓ Show car rental service
- ✓ Show car services package
- ✓ Show RSA services
- ✓ Find Fuel Station
- ✓ Show second hand car
- ✓ Show Car insurance
- ✓ Show Find EV Charging Station
- ✓ Show Find Fuel Station
- ✓ Contact
- ✓ Show News

3.2.Aim & Objective :-

- ✓ it is our main objective/aim to provide all kinds of **facilities** to the people from one place for all types of **needs**.
- ✓ Car solution this thing Defines it as including the design, development, manufacturing, marketing, purchasing and sales associated with it, as well as its maintenance, cleaning, repair, painting, furnishing, body building, fueling and servicing.
- ✓ The main objective of Car Solution is to provide Roadside Assistance(RSA) type services, this includes when there is a sudden mechanical failure or other emergency in the vehicle while on the road, So Road Side Assistance is a service offered by insurance companies or special suppliers to assist them.
- ✓ A car service's primary objective is to keep your vehicle in good condition and avoid problems before they arise. A car service consists of a variety of examinations and maintenance procedures meant to keep your vehicle operating smoothly and safely.



3.3. Expected Advantage:-

- ✓ **Efficiency:** A car solution may offer improved fuel efficiency or energy utilization, reducing operational costs and environmental impact.
- ✓ **Safety:** Advanced car solutions could integrate safety features such as collision detection, automatic braking, lane departure warnings, and adaptive cruise control, enhancing overall road safety.
- ✓ Convenience: Certain car solutions might offer convenience features such as remote start, keyless entry, or advanced infotainment systems, enhancing the overall driving experience.
- ✓ **Cost-effectiveness:** Some car solutions could lead to cost savings over time, such as reduced maintenance requirements or lower insurance premiums due to safety features.
- ✓ **Performance:** High-performance car solutions might offer improved acceleration, handling, or towing capacity, catering to specific user needs or preferences.
- ✓ Environmental Friendliness: Car solutions could incorporate environmentally friendly technologies such as electric or hybrid propulsion systems, reducing emissions and promoting sustainability.
- ✓ **Customization:** Certain car solutions might offer a high degree of customization, allowing users to personalize their driving experience with options for trim levels, colors, and additional features.
- ✓ **Reliability:** A reliable car solution can provide peace of mind to users, minimizing the risk of breakdowns or unexpected issues and ensuring consistent performance over time.

- ✓ **Emergency Assistance**: RSA service provides prompt assistance in case of vehicle breakdowns, accidents, or other emergencies, ensuring the safety and well-being of drivers and passengers.
- ✓ **24/7 Coverage**: Most RSA services operate round the clock, offering assistance anytime, anywhere, providing peace of mind to drivers even during late-night or remote travels.
- ✓ **Towing Services:** RSA often includes towing services to transport a vehicle to a repair facility or a safe location if it cannot be fixed on-site, preventing further damage or inconvenience.

Ch:-4 Project Plan

4.1. Task List :-

4.1.1. Requirement Gathering & Analysis:

- Requirement Gathering & Analysis
- System Requirement Specification

4.1.2. Planning :-

- Project Planning
- Background Study of Concepts
- Feasibility Study

4.1.3. Modeling :-

- Identify Project Workflow
- Identify constraints
- Scope definition

4.1.4. System Design :-

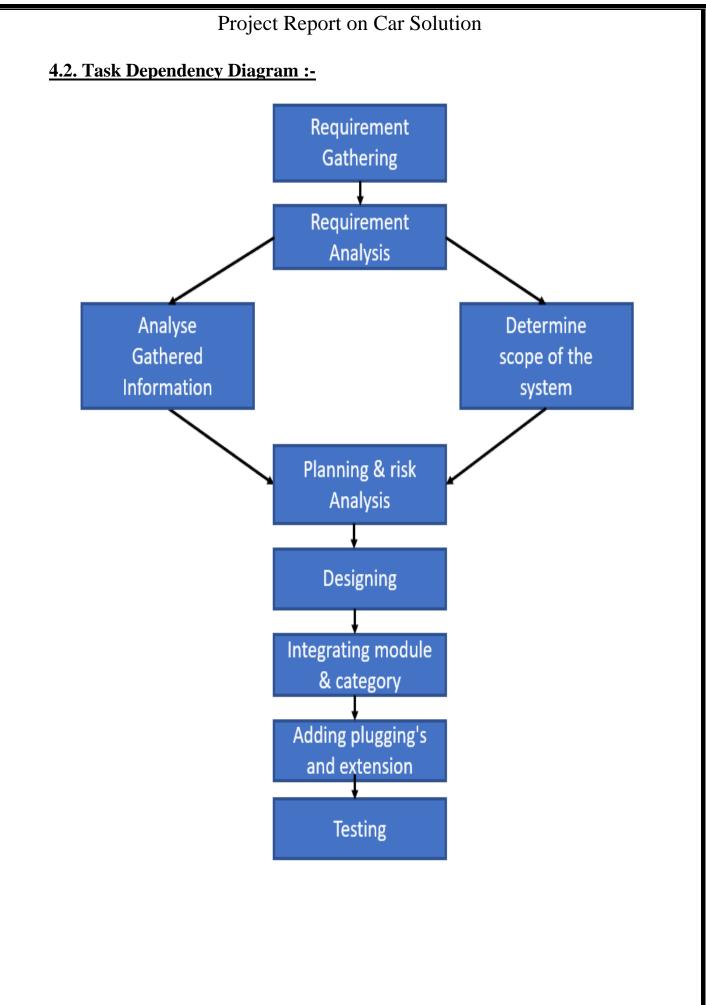
- Design system flow
- Database design
- Interface design

4.1.5. Coding :-

- Administrator site development
- Visitor site development

4.1.6. Testing :-

- Testing of all web pages
- Error correction



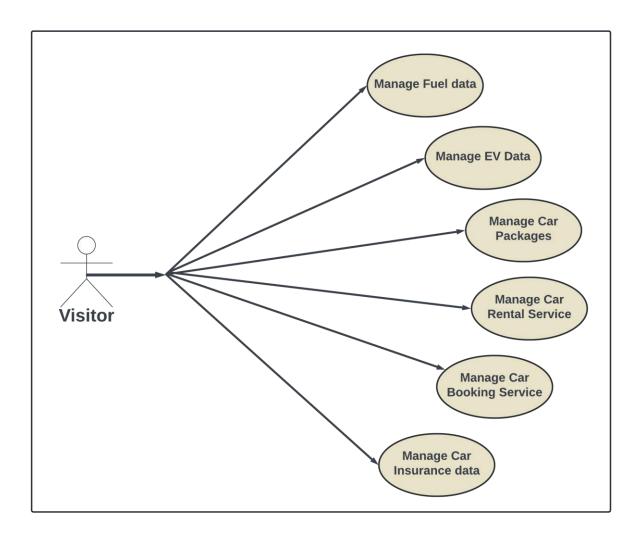
4.3. Time Line Chart :-

Task	D	ece	mbe	er	J	Janu	uary	y	February				March			
	W e e k	W e e k 2	W e e k 3	W e e k 4	W e e k	W e e k 2	W e e k 3	W e e k 4	W e e k	W e e k 2	W e e k 3	W e e k 4	W e e k 1	W e e k 2	W e e k 3	W e e k 4
1.Requirement Gathering																
Collected Details For developed Site																
Analyzed Gathering information																
Determine the Scope Of The System																
Milestone: Requirement Gathering Completed																
2.Planning																
Basic Flow and Structure																
Determined different module																
Milestone: Planning Completed																
3. Designing																
Basic Interface Design																
Database Design																
Design Web forms and modules																
Milestone: Designing Completed																
4. Risk Analysis																
Milestone: Designing Completed																
5. Coding And Integration Modules																
Implement logic for Different Modules																
Integrating code with backend																
Integrating dependent Modules																
Milestone: Coding Completed																
6.Testing Developed System																
Milestone: finalized																
7.Documentation																
Milestone: Documentation Completed																

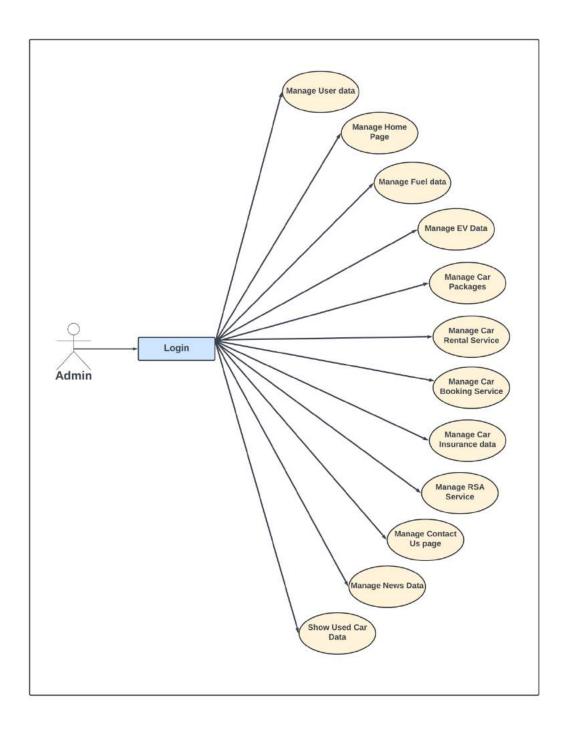
Ch:-5 System Designing

5.1.Use Case Diagram :-

Use case For Visitor:-

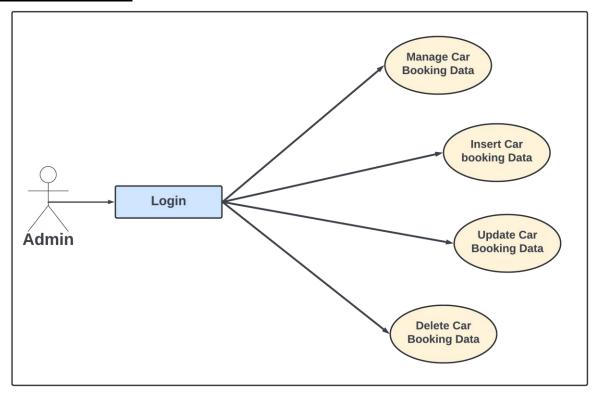


► Use case For Admin:-

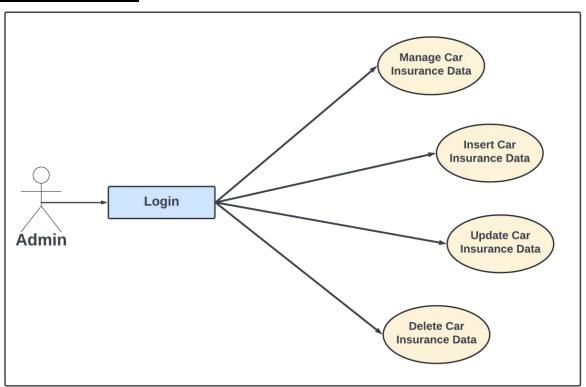


Use case For Admin Modules:-

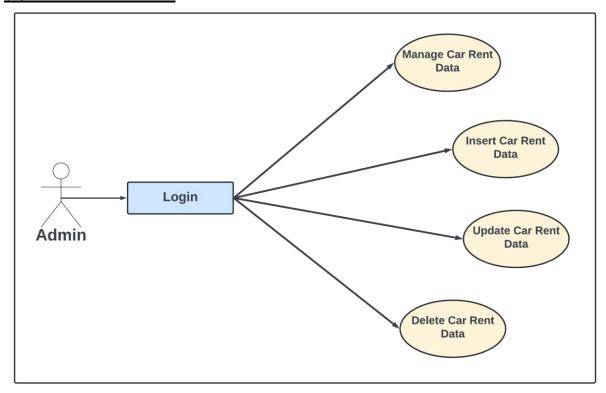
(1)Car Booking:-



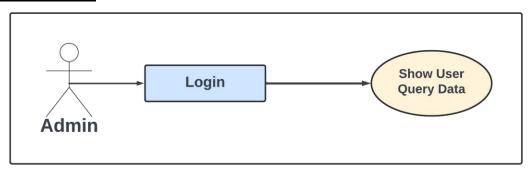
(2)Car Insurance:-



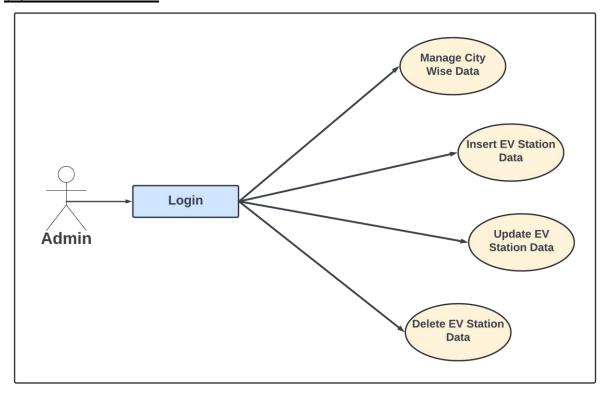
(3)Car Rent Service:-



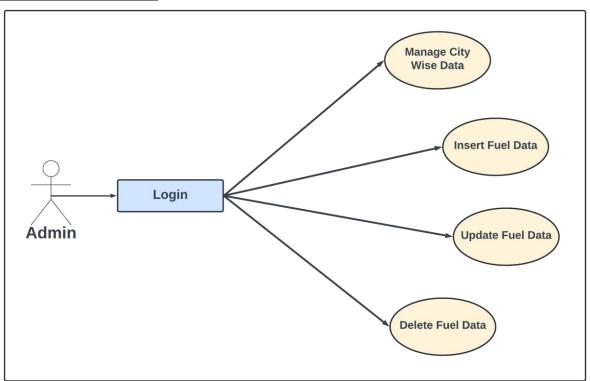
(4) Contact Us:-



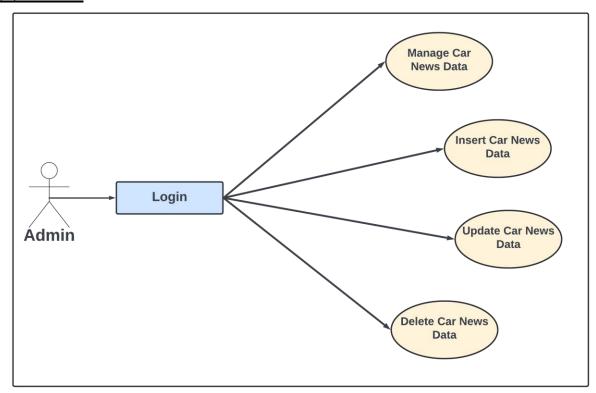
(5) Find EV Data:-



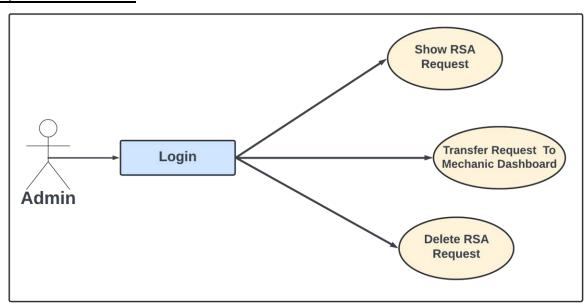
(6) Find Fuel Data:-



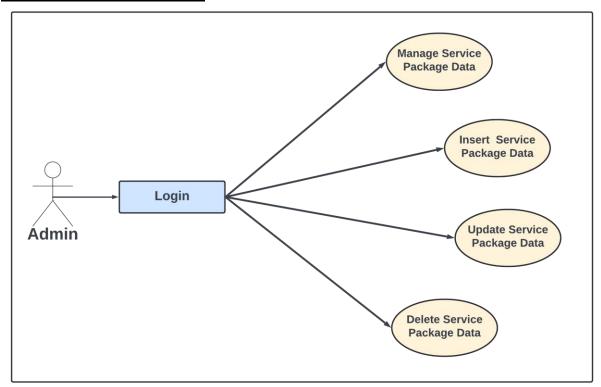
(7) News :-



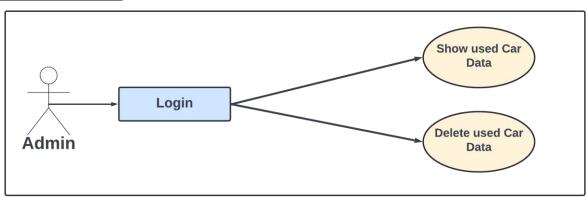
(8) RSA Service :-



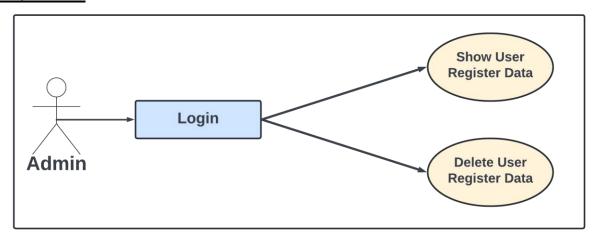
(9)Car Service Package :-



(10) Used Car :-

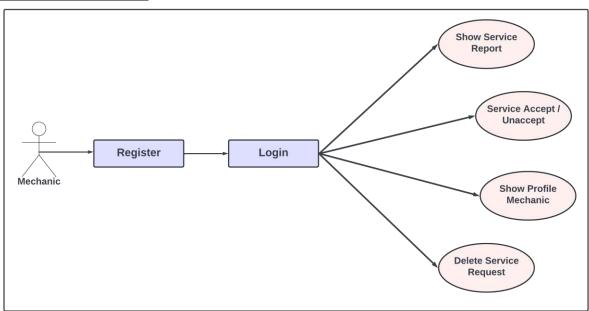


(11) User :-

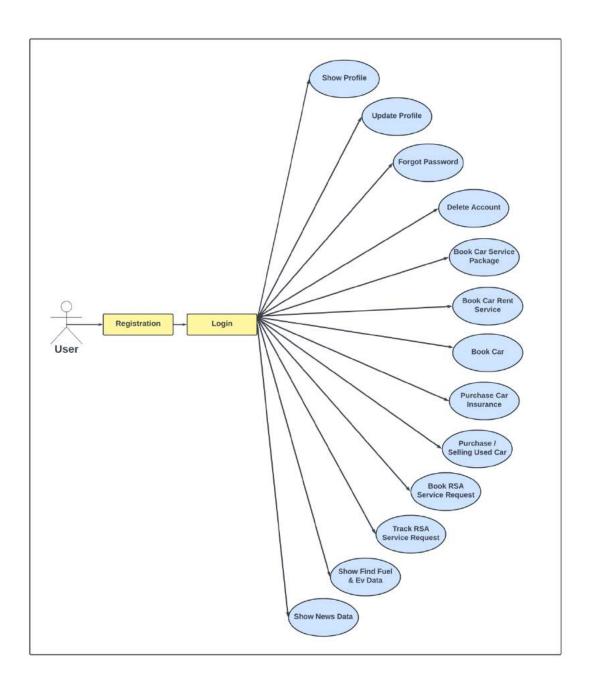


▶ Mechanic Side

(1)Service Report:-

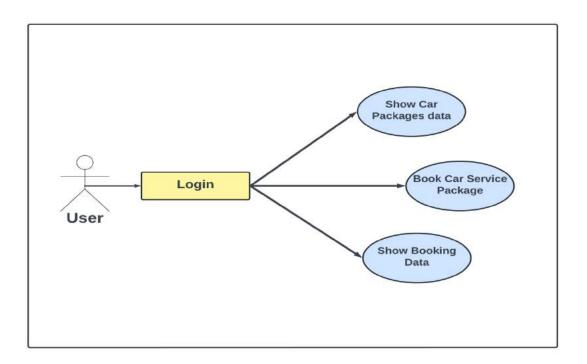


Use case For User:-

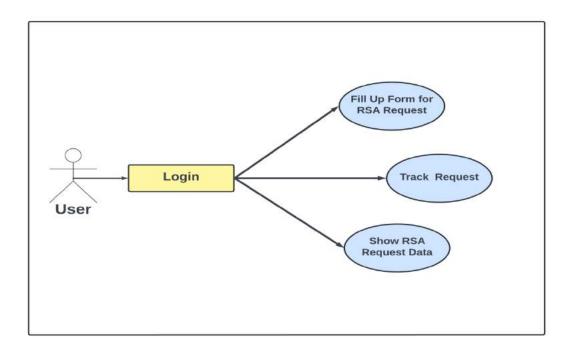


Use case For Admin Modules:-

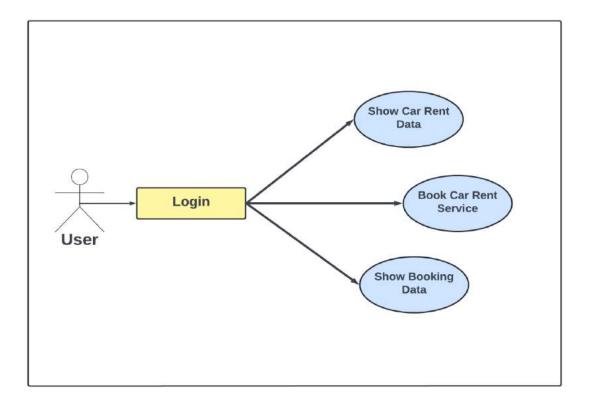
(1) Car Service Package:-



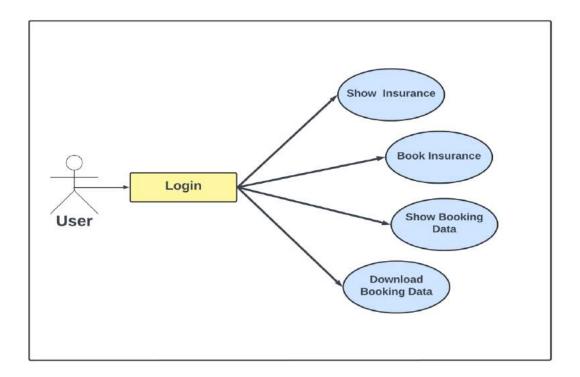
(2) RSA Service :-



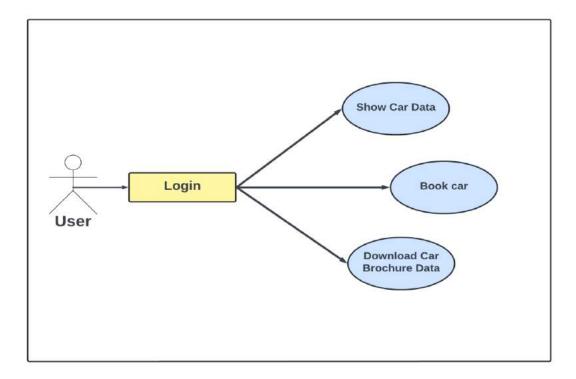
(3) Car Rental Service :-



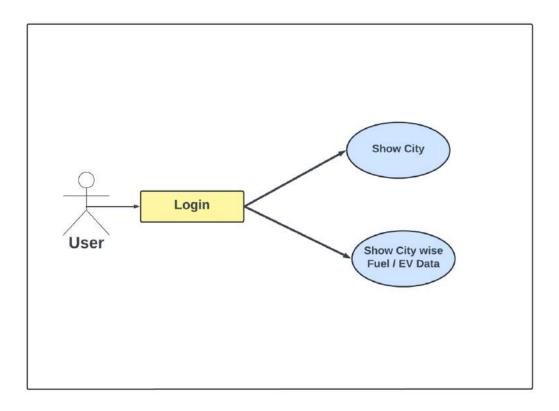
(4) Car Insurance :-



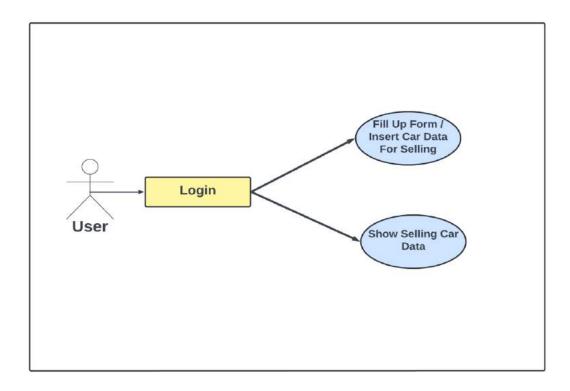
(5) Car Booking :-



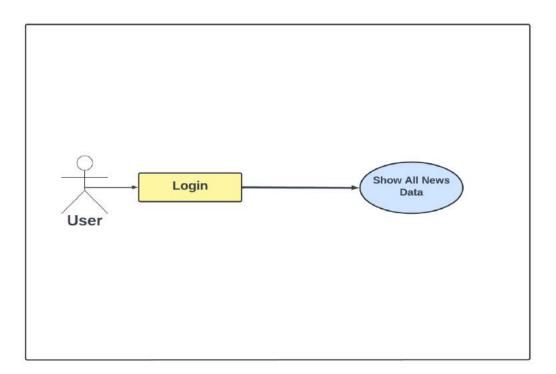
(6) Find Fuel & Ev Data :-



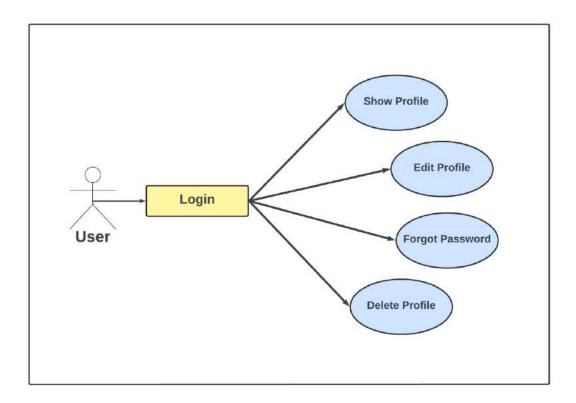
(7) Used Car :-



(8) News :-

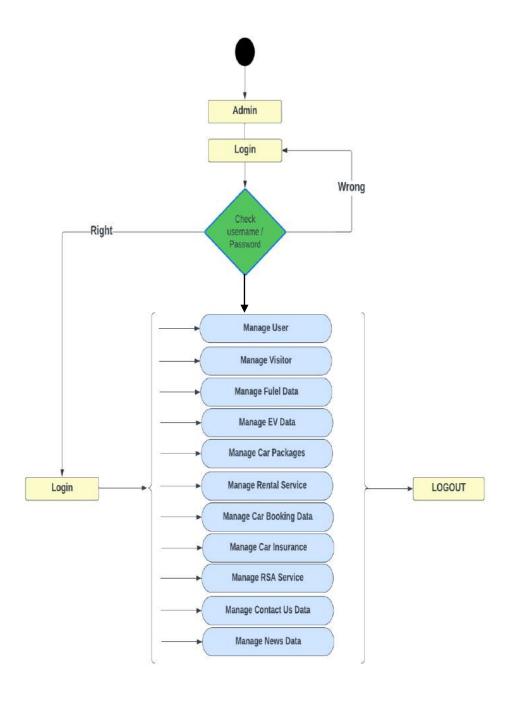


(9) User Profile :-

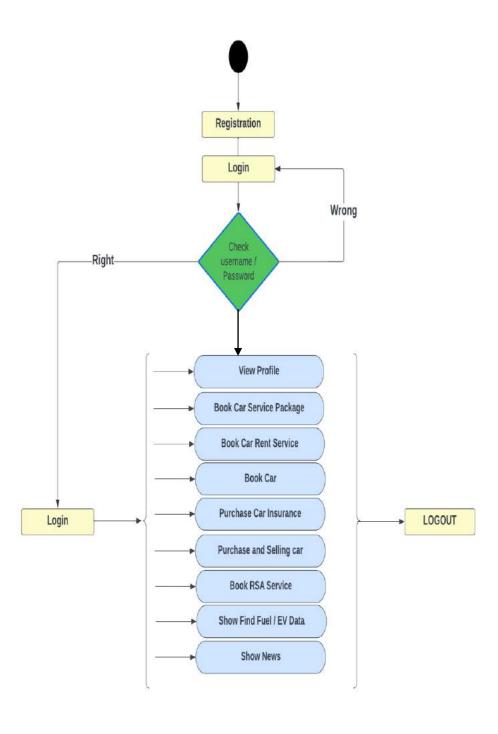


5.2. Activity Diagram :-

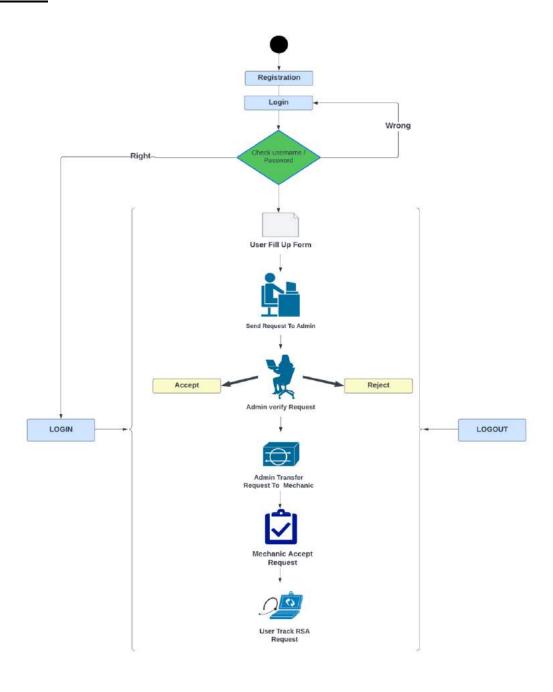
Admin Side:-



User Side:-

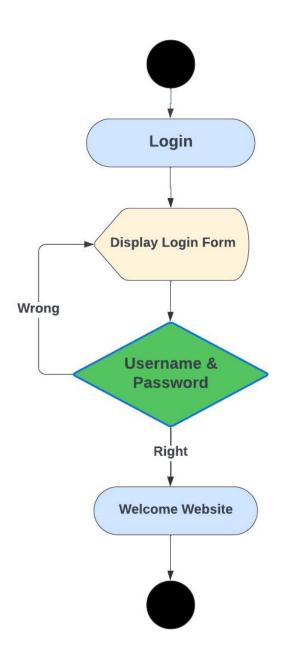


RSA Service:-

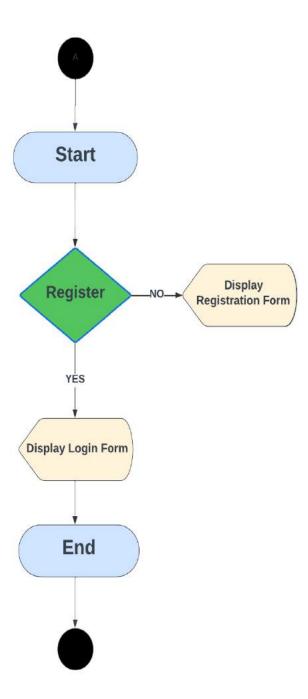


5.3. Flow Chart :-

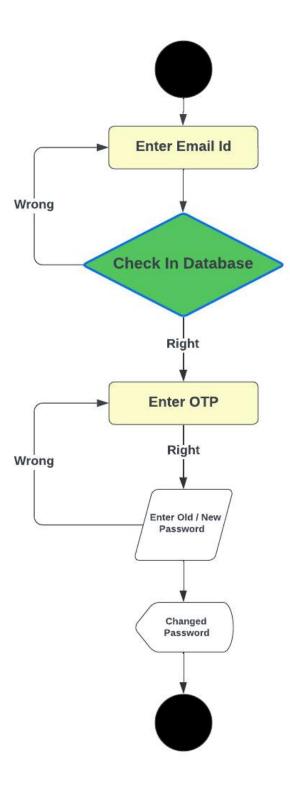
Login Page:-



Registration Page:-



Forgot Password:-



Ch:-6 Data Architecture

6.1.Table Structure

* Table Name:- Login-Registration:-

Field Name	Data Type	Constance
Id	Int	Primary Key
Username	Varchar(255)	Not Null
Email	Varchar(255)	Not Null
Phone	Varchar(255)	Not Null
Gender	Varchar(255)	Not Null
Hobby	Varchar(255)	Not Null
Image	Text	Not Null
City	Varchar(255)	Not Null
Password	Varchar(255)	Not Null
Conpassword	Varchar(255)	Not Null

❖ Table Name:- News:-

Field Name	Data Type	Constance
id	Int	Primary Key
image	Text	Not Null
title	Varchar(255)	Not Null
description	Varchar(255)	Not Null

***** Table Name:- Mechanic_id_reg :-

Field Name	Data Type	Constance
id	Int	Primary Key
password	Varchar(255)	Not Null

***** Table Name:- Home_Team:-

Field Name	Data Type	Constance
id	Int	Primary Key
image	Text	Not Null
name	Varchar(255)	Not Null
Post	Varchar(255)	Not Null

***** Table Name:- Home_Slider:-

Field Name	Data Type	Constance
id	Int	Primary Key
image	Text	Not Null
description	Varchar(255)	Not Null

* Table Name:- Car Booking:-

Field Name	Data Type	Constance
id	Int	Primary Key
company_name	Varchar(255)	Not Null
model_name	Varchar(255)	Not Null
cust_name	Varchar(255)	Not Null
cust_email	Varchar(255)	Not Null
cust_mobile	Varchar(255)	Not Null
down_payment	Varchar(255)	Not Null
Total Price	Varchar(255)	Not Null

* Table Name:- Car Package & Services:-

Field Name	Data Type	Constance
id	Int	Primary Key
name	Varchar(255)	Not Null
email	Varchar(255)	Not Null
mobile_no	Varchar(255)	Not Null
package_type	Varchar(255)	Not Null
service_date	date	Not Null
message	Varchar(255)	Not Null
booking_no	Int	Not Null

❖ Table Name:- RSA Service :-

Field Name	Data Type	Constance
id	Int	Primary Key
name	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
email	Varchar(255)	Not Null
pickup_point	Varchar(255)	Not Null
address	Varchar(255)	Not Null
latitude	Varchar(255)	Not Null
longitude	Varchar(255)	Not Null
booking_id	Int	Not Null

❖ Table Name:- Mechanic :-

Field Name	Data Type	Constance
id	Int	Primary Key
rsa_id	Int	Primary Key
username	Varchar(255)	Not Null
name	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
email	Varchar(255)	Not Null
pickup_point	Varchar(255)	Not Null
address	Varchar(255)	Not Null
latitude	Varchar(255)	Not Null
longitude	Varchar(255)	Not Null
status	Varchar(255)	Not Null

❖ Table Name:- Mechanic_Register :-

Field Name	Data Type	Constance
id	Int	Primary Key
name	Varchar(255)	Not Null
phone_number	Varchar(255)	Not Null
email	Varchar(255)	Not Null
username	Varchar(255)	Not Null
photo	Text	Not Null
password	Varchar(255)	Not Null
conpassword	Varchar(255)	Not Null

***** Table Name:- Insurance Service :-

Field Name	Data Type	Constance
id	Int	Primary Key
name	Varchar(255)	Not Null
email	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
car_number	Varchar(255)	Not Null
rc_book	Varchar(255)	Not Null
old_car	Varchar(255)	Not Null
insurance_start_date	Varchar(255)	Not Null
validity	Int	Not Null
insurance_type	Varchar(255)	Not Null
price	Varchar(255)	Not Null
policy_number	Int	Not Null

❖ Table Name:- Rental Car Service :-

Field Name	Data Type	Constance
id	Int	Primary Key
name	Varchar(255)	Not Null
email	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
carname	Varchar(255)	Not Null
modelname	Varchar(255)	Not Null
Pickup_point	Varchar(255)	Not Null
drop_point	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
booking_no	Int	Not Null

***** Table Name:- Old Car Selling :-

Field Name	Data Type	Constance
Id	Int	Primary Key
name	Varchar(255)	Not Null
email	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
address	Varchar(255)	Not Null
car_name	Varchar(255)	Not Null
model_name	Varchar(255)	Not Null
photo	text	Not Null
Price	Varchar(255)	Not Null

❖ Table Name:- Contact-us data :-

Field Name	Data Type	Constance
Id	Int	Primary Key
name	Varchar(255)	Not Null
email	Varchar(255)	Not Null
mobile	Varchar(255)	Not Null
subject	Varchar(255)	Not Null
message	Varchar(255)	Not Null

❖ Table Name:- admin_login:-

Field Name	Data Type	Constance
Id	Int	Primary Key
email	Varchar(255)	Not Null
password	Varchar(255)	Not Null

* Table Name:- add_insurance :-

Field Name	Data Type	Constance
Id	Int	Primary Key
name	Varchar(255)	Not Null
validity	Varchar(255)	Not Null
type	Varchar(255)	Not Null
price	Int	Not Null

* Table Name:- add_car_slider :-

Field Name	Data Type	Constance
Id	Int	Primary Key
image	Text	Not Null
name	Varchar(255)	Not Null

***** Table Name:- add_car_rent :-

Field Name	Data Type	Constance
Id	Int	Primary Key
image	Text	Not Null
name	Varchar(255)	Not Null
dprise	Int	Not Null
dfuelcharge	Int	Not Null
wprice	Int	Not Null
wfuelprice	Int	Not Null
mprice	Int	Not Null
mfuelprice	Int	Not Null

❖ Table Name:- add_car_package :-

Field Name	Data Type	Constance
Id	Int	Primary Key
name	Varchar(255)	Not Null
package_no	Varchar(255)	Not Null
package_name	Varchar(255)	Not Null
price	Int	Not Null
detail	Varchar(255)	Not Null
s_1	Varchar(255)	Not Null
s_2	Varchar(255)	Not Null
s_3	Varchar(255)	Not Null
s_4	Varchar(255)	Not Null
s_5	Varchar(255)	Not Null
s_6	Varchar(255)	Not Null
s_7	Varchar(255)	Not Null
s_8	Varchar(255)	Not Null
s_9	Varchar(255)	Not Null

❖ Table Name:- add_car_booking :-

Field Name	Data Type	Constance
Id	Int	Primary Key
image	Text	Not Null
name	Varchar(255)	Not Null
price	Int	Not Null

❖ Table Name:- ev rajkot data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev Ahemdabad data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

* Table Name:- ev vadodara data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev hydrabad data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev Mumbai data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev pune data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev surat data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- ev banglore data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
chargingpoint	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel rajkot data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel Ahemdabad data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel vadodara data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel hydrabad data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel Mumbai data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel pune data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

* Table Name:- fuel surat data:-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

❖ Table Name:- fuel banglore data :-

Field Name	Data Type	Constance
id	Int	Primary Key
station_name	Varchar(255)	Not Null
address	Varchar(255)	Not Null
time	Varchar(255)	Not Null
fueltype	Varchar(255)	Not Null
direction	Varchar(255)	Not Null

Ch:-7 Screen Layout

7.1.Admin Site Screen Lay Out

> Admin Login:-

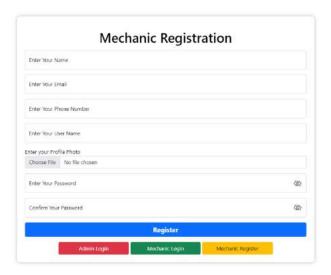


▶ Mechanic Login:-

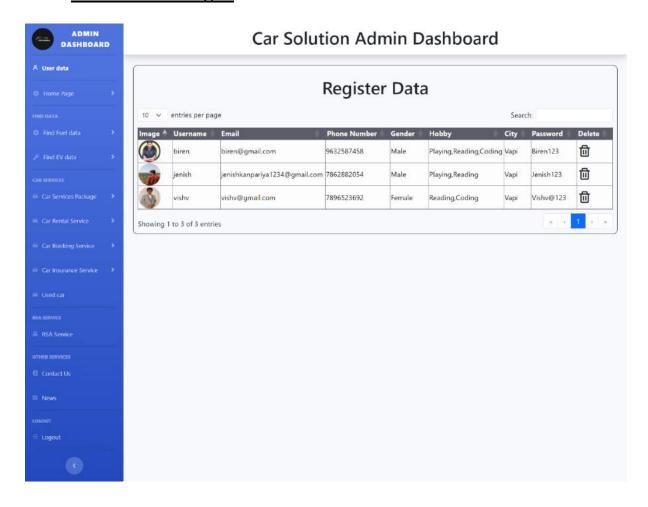


> Mechanic Registration:-

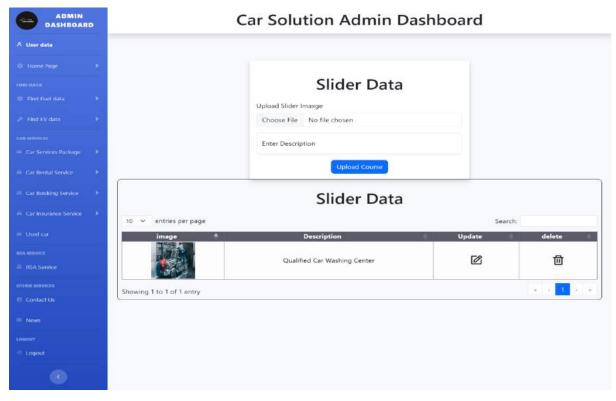


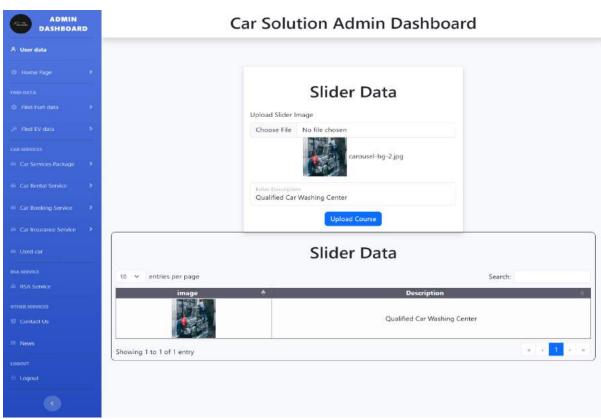


> Admin Home Page:-

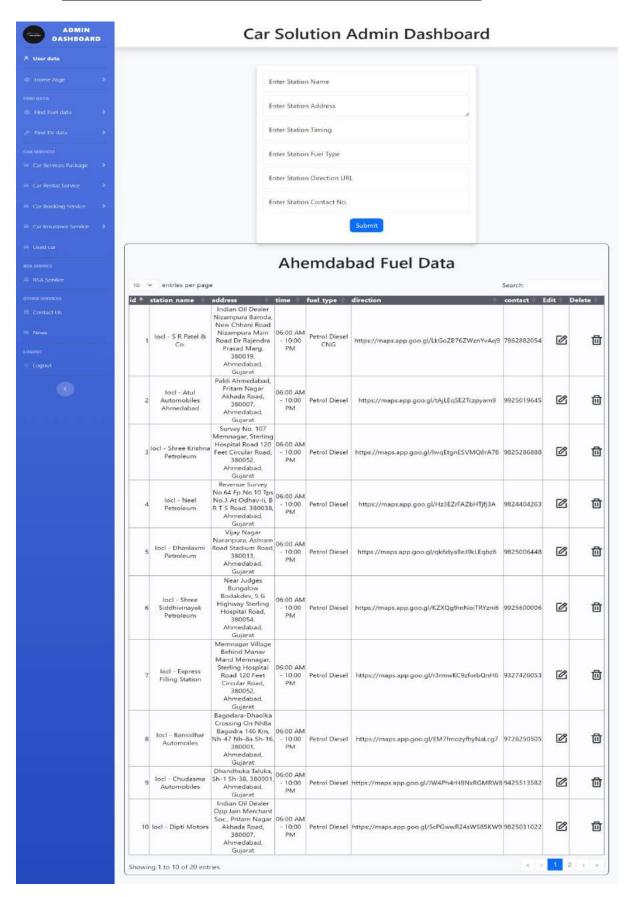


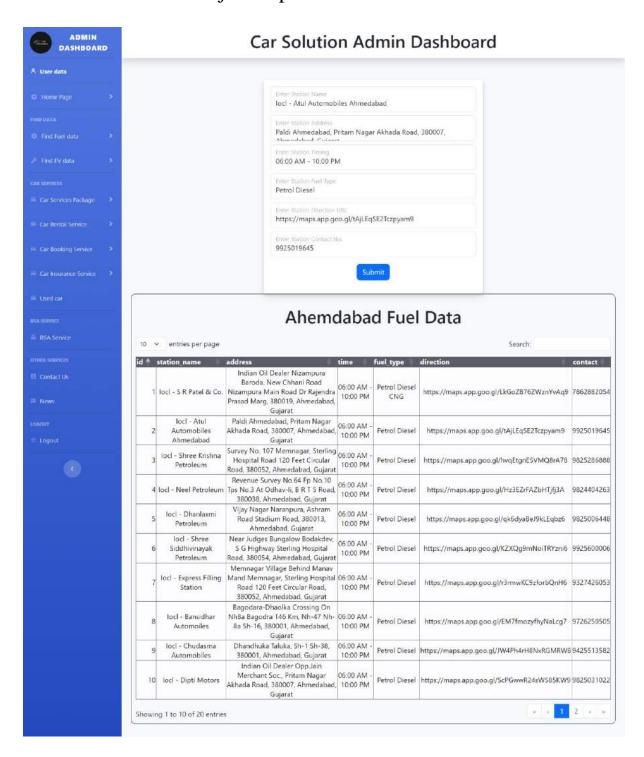
> Admin Home Page Slider data Add & Update:-



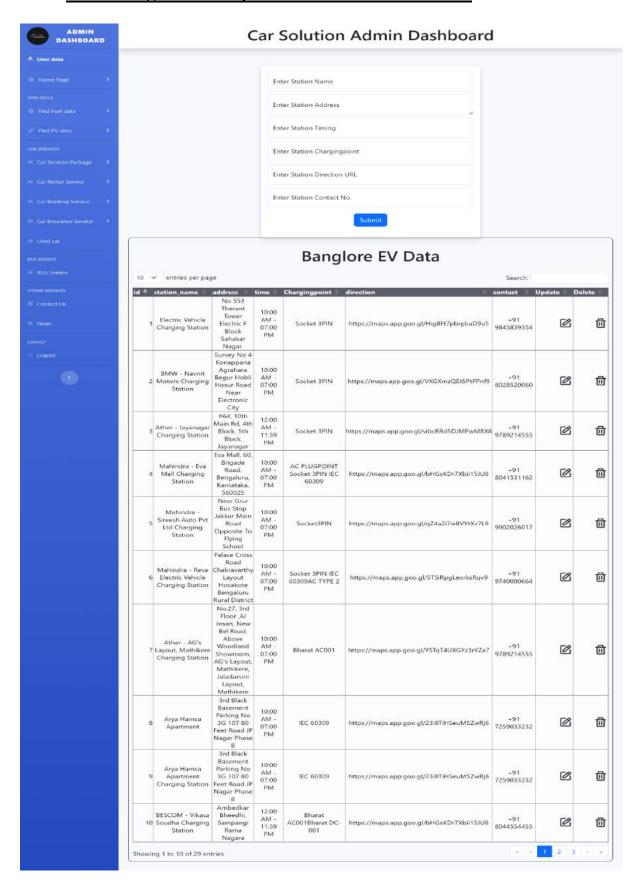


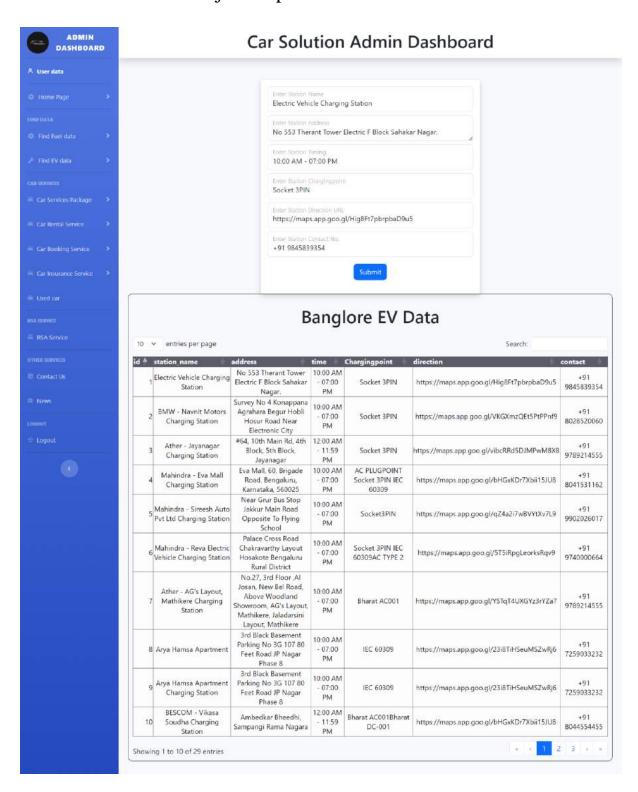
> Admin Page Add & Update Find Fuel Station Data:-



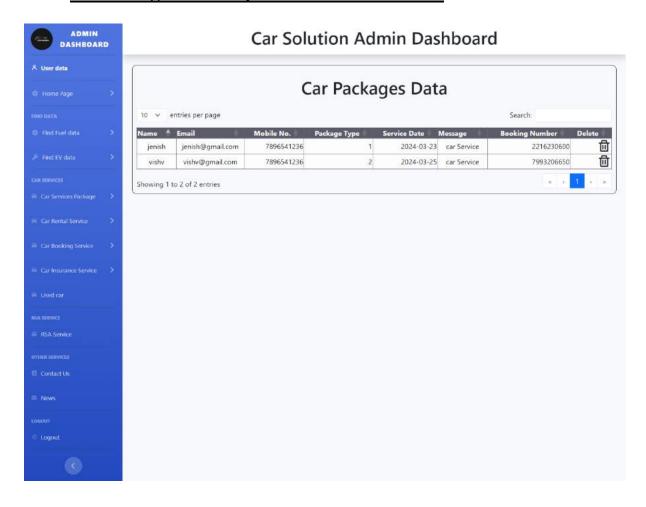


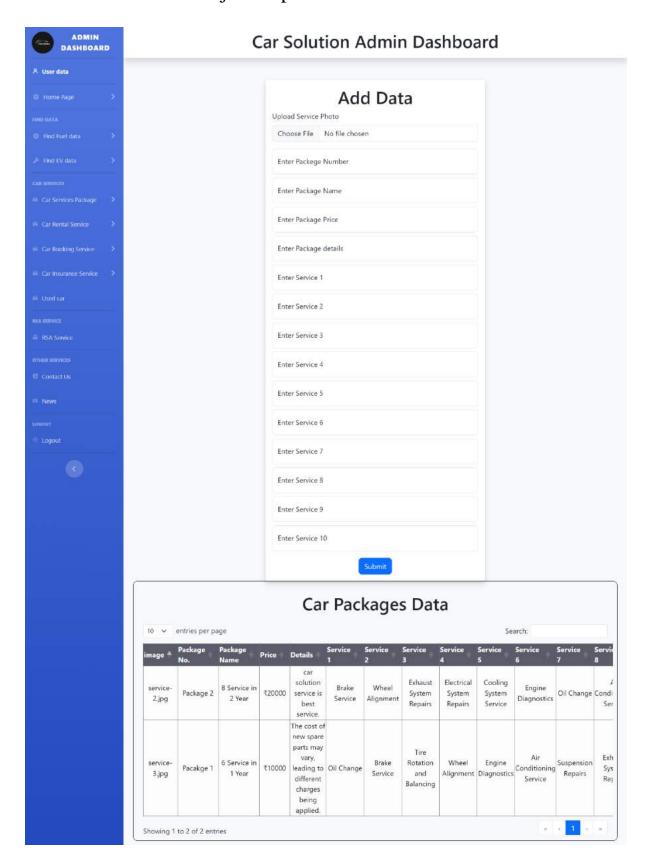
> Admin Page Add & Update Find Ev Station Data:-

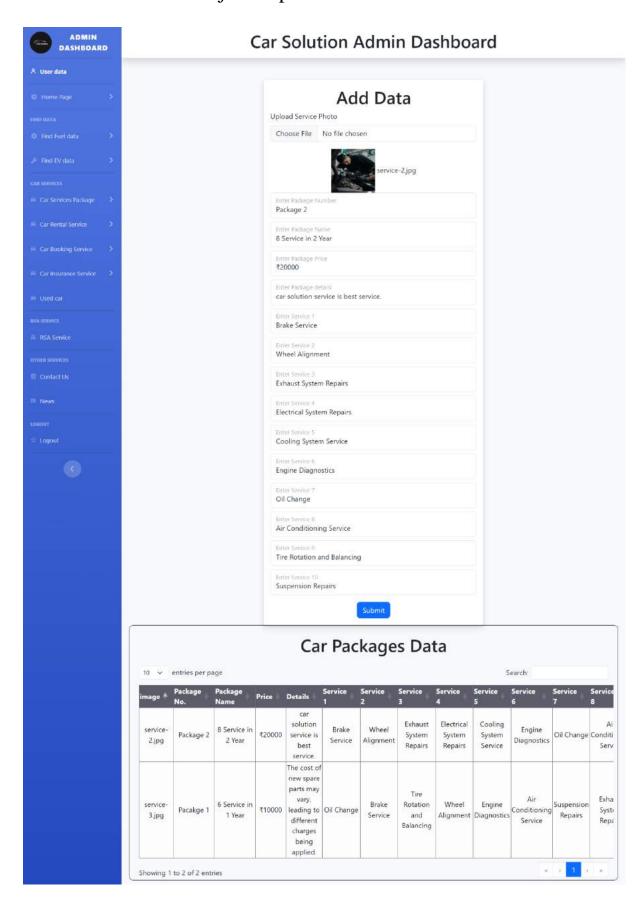




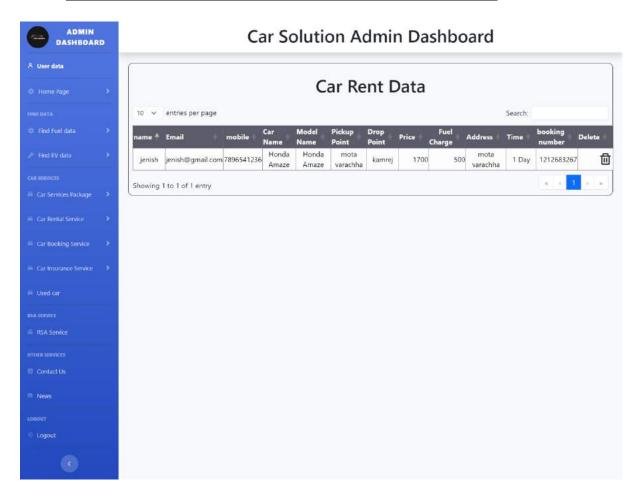
> Admin Page Add & Update Car Service Data:-

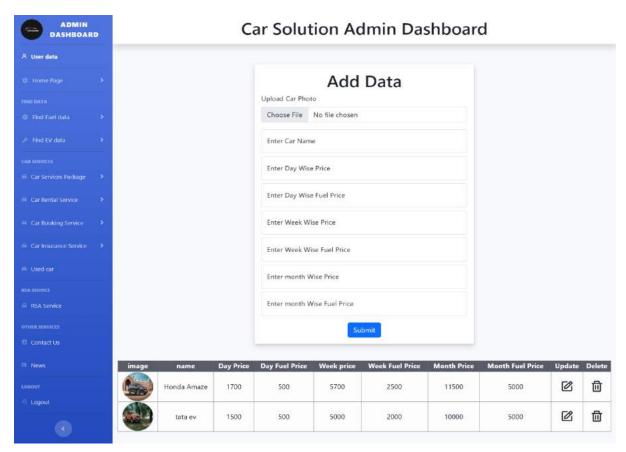


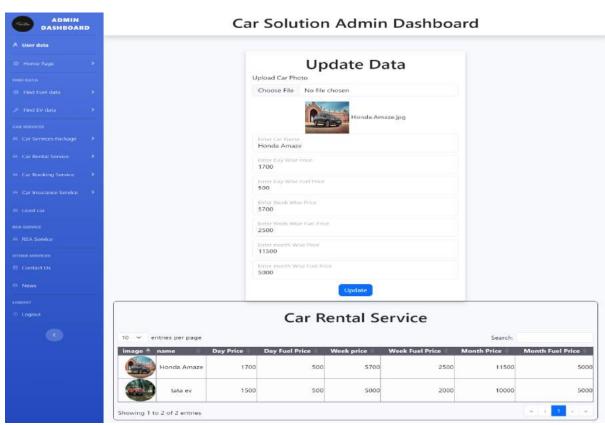




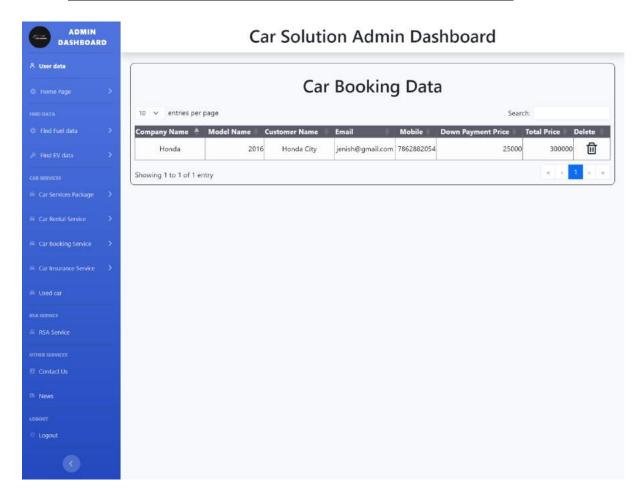
> Admin Page Add & Update Car Rental Service Data:-

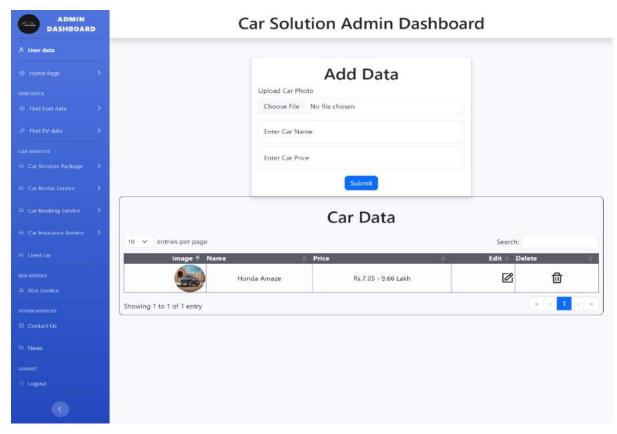


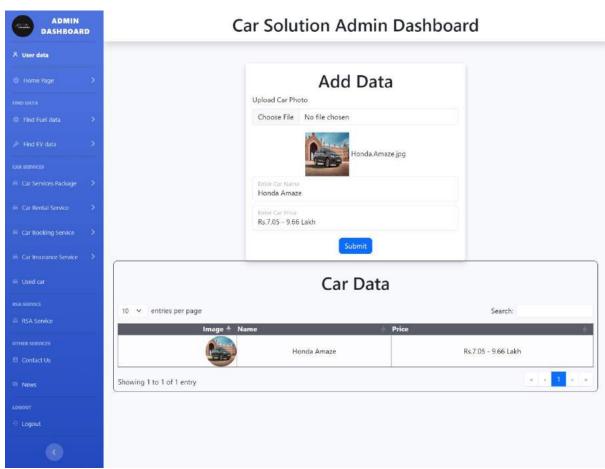


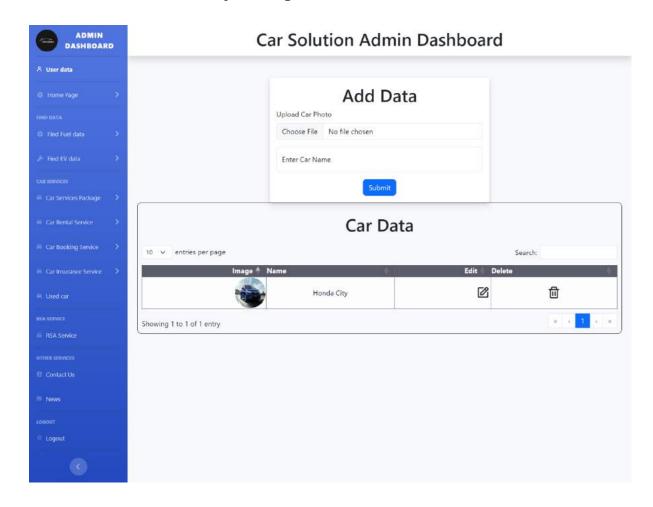


> Admin Page Add & Update Car Booking Service Data:-

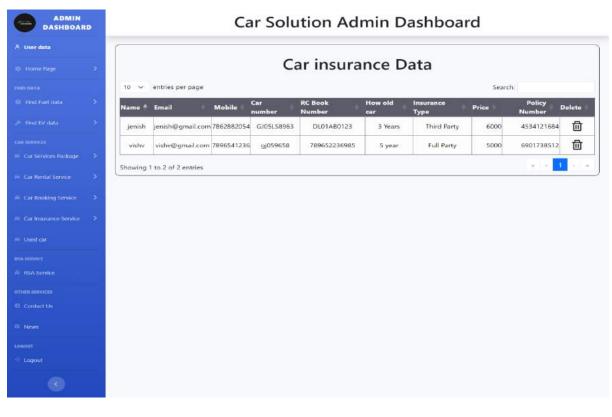


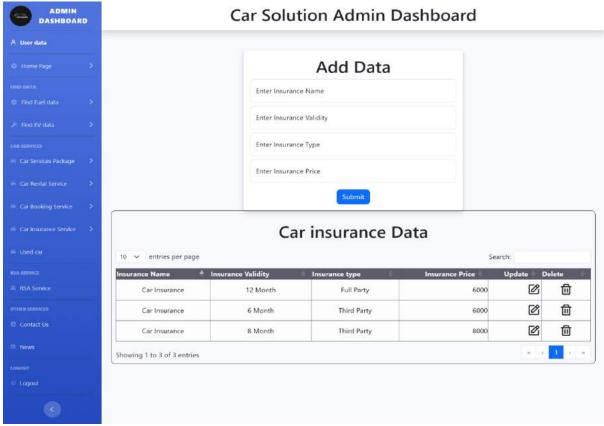


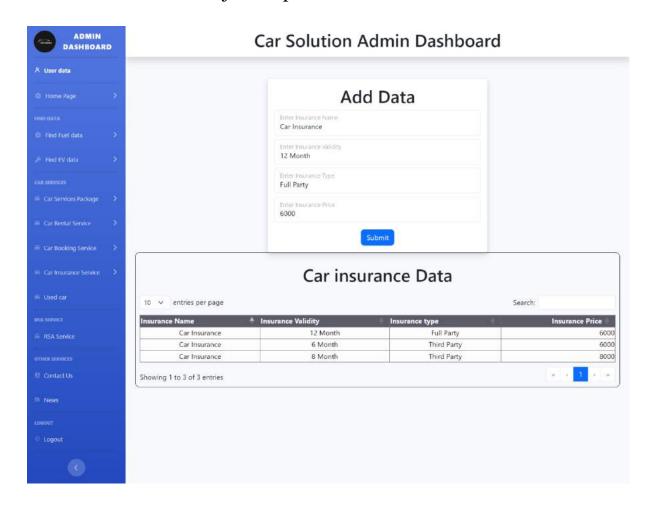




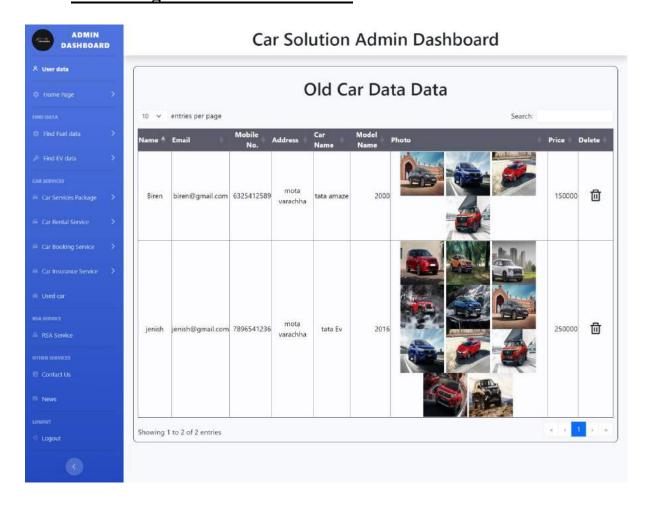
> Admin Page Add & Update Car Insurance Service Data:-



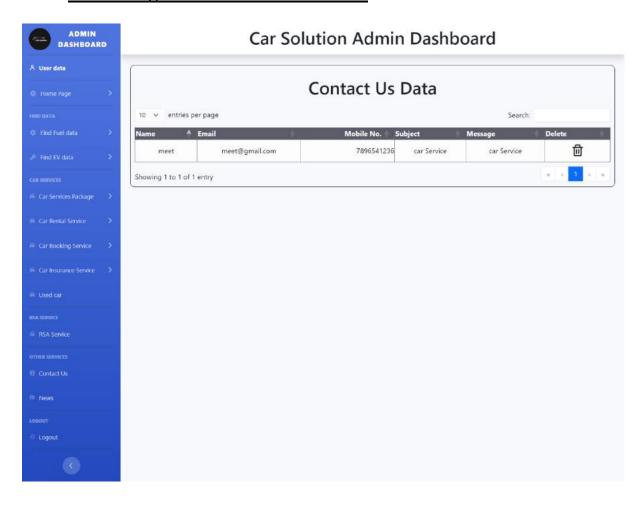




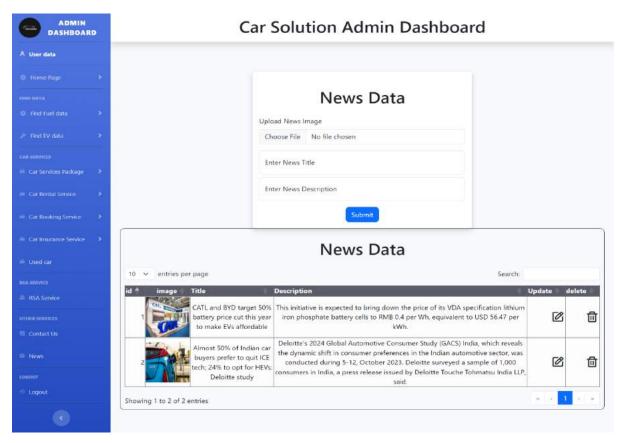
> Admin Page Show Used Car Data:-

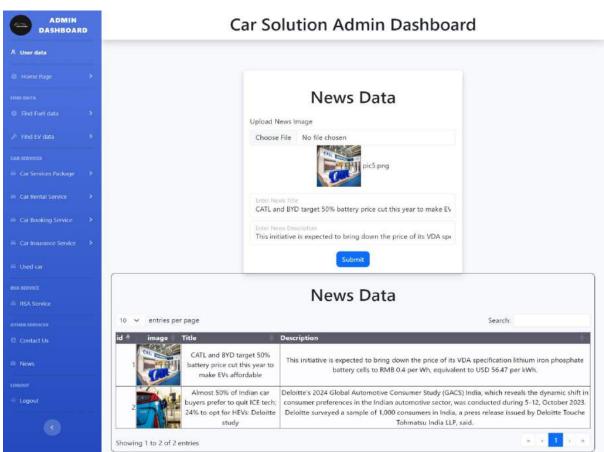


> Admin Page Show Contact Us Data:-

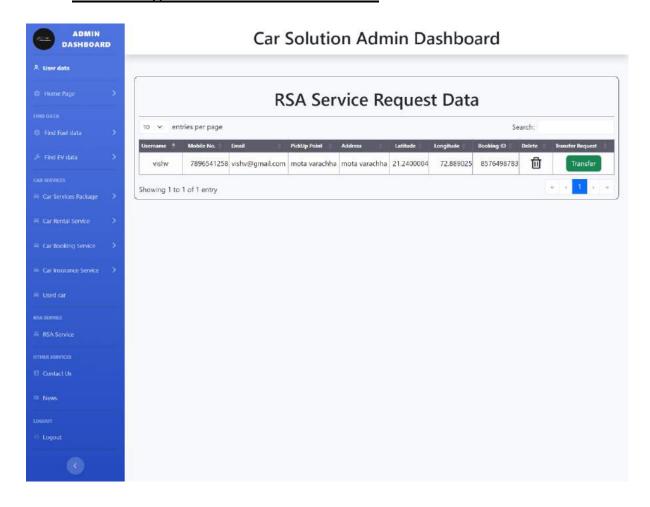


➤ Admin Page Add & Update news Data:-

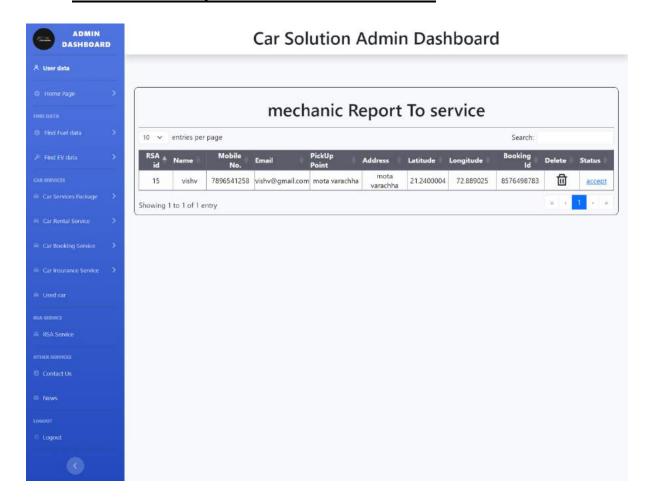




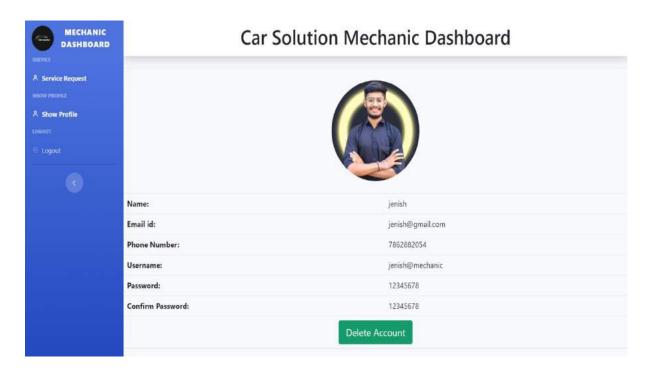
> Admin Page Show RSA Service Data:-



> RSA Service Request Transfer To mechanic:-

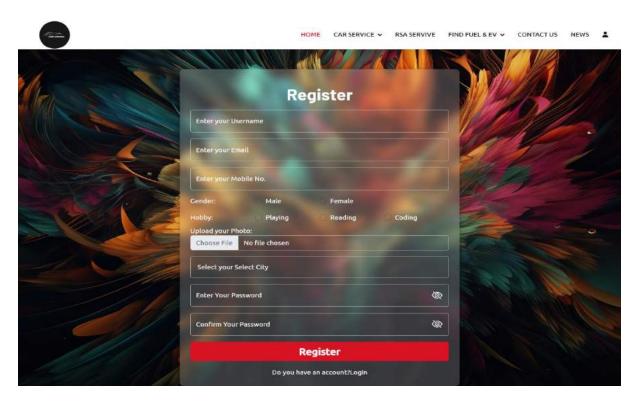


> Show Mechanic Profile :-

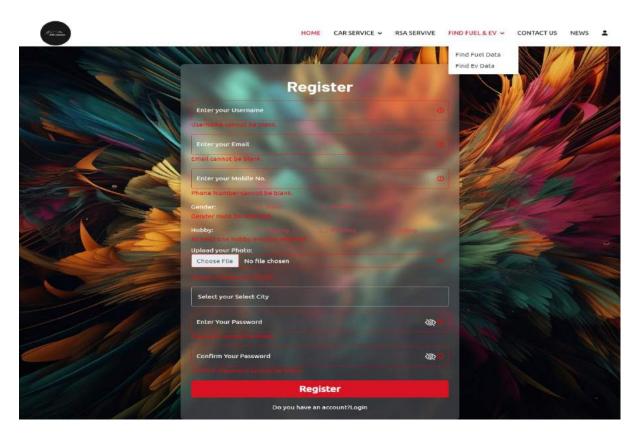


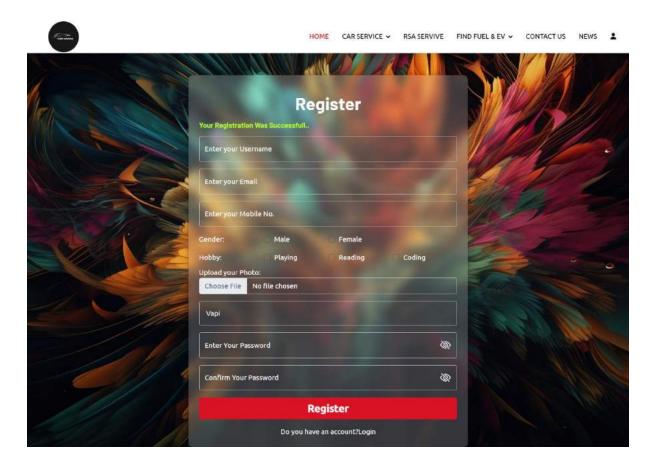
7.2. User Site Screen Lay Out

► User Registration :-

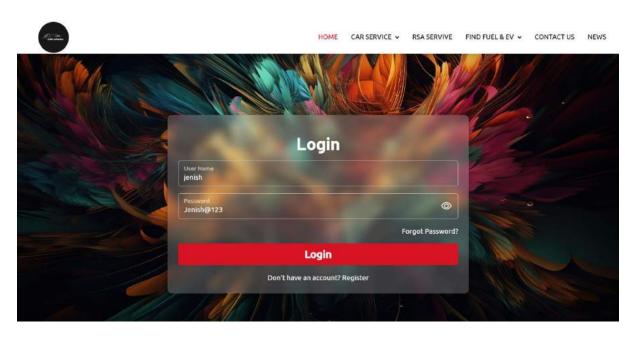


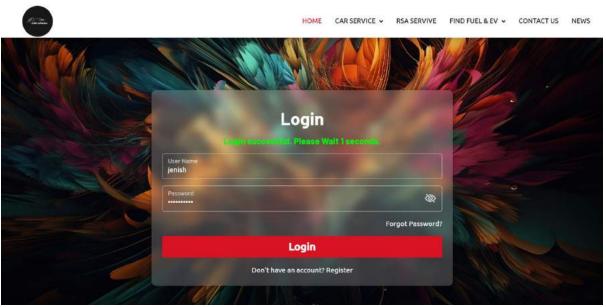
➤ <u>User Registration Validation :-</u>



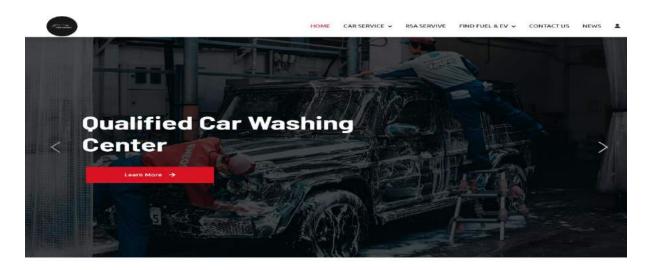


▶ User Login :-





> User Home Page :-









Car Booking



Car Insurance



Find Fuel Station





// ABOUT US //

CarSolution Is The Best Place **For Your Auto Care**

CarSolution is the epitome of excellence when it comes to auto care services, with a stellar reputation built on trust and expertise, they stand out as the go-to destination for all car maintenance needs. Equipped with state-of-the-art festities and cutting-edge technology, they guarantee precision and efficiency in every job they undertake. Trust Carsolution to keep your car running at its best, ensuring safety and performance on every journey.

- Professional & Expert
 At Carsolution, professionalism and expertise are the cornerstone of our exceptional service.
- Quality Servicing Center
 Your premier destination for quality automotive servicing.
- Awards Winning Workers
 CarSolution boasts award-winning workers dedicated to delivering top-notch automotive service.



// OUR SERVICES //

Our Services Packages

₽ Pacakge 1

Package 2

// OUR TECHNICIANS //

Our Expert Technicians



Kanpariya Jenish



Manthan Zinzuvadiya



Vishv Vamja







Car Service Package:-







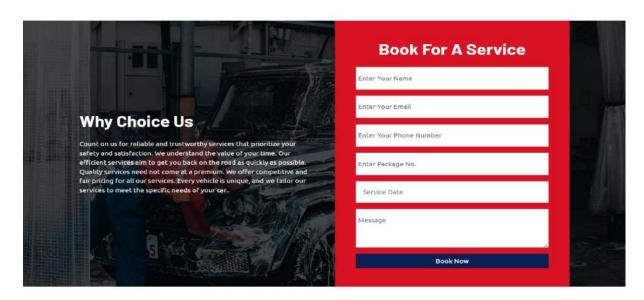


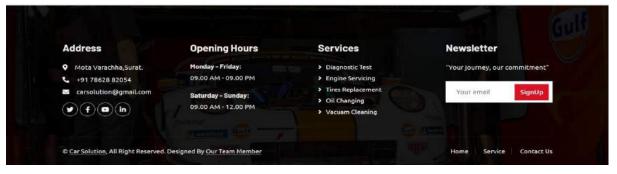
// OUR SERVICES //

Our Services Packages

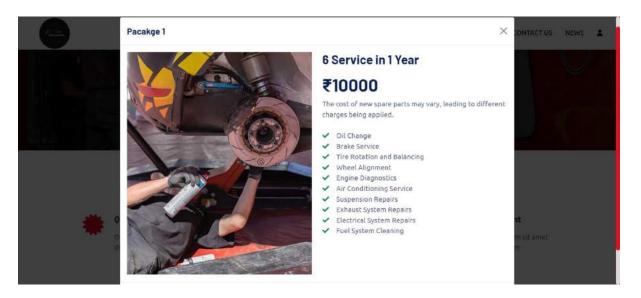
Pacakge 1

Package 2

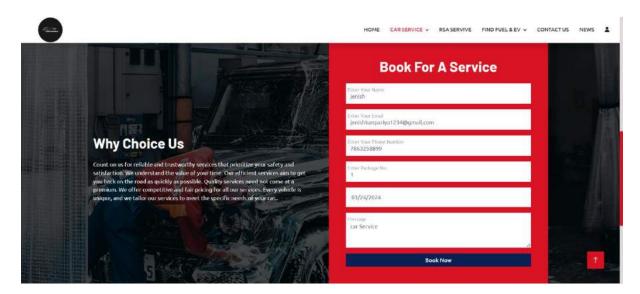




> Show Car Service Package:-



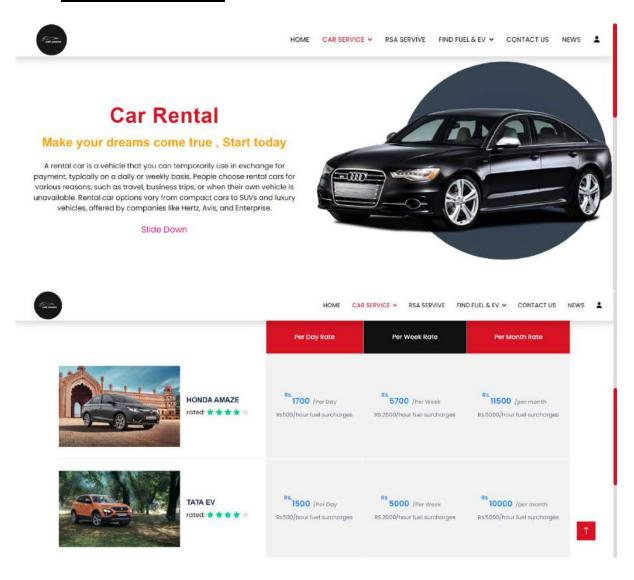
Book Car Service Package:-



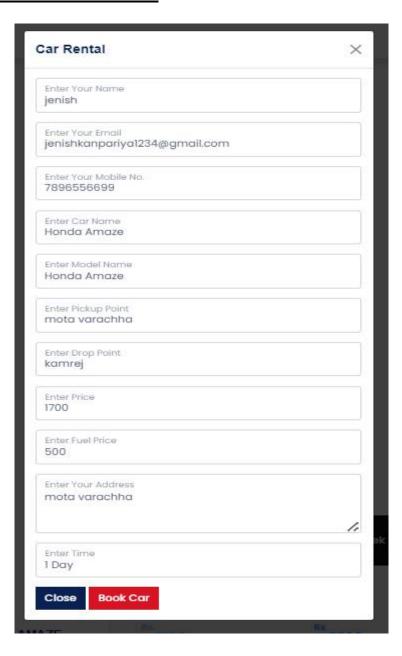
Car Service Package Details:-

Car Service Package Details		
Name:	jenish	
Email:	jenishkanpariya1234@gmail.com	
Mobile No.:	7863258899	
Package No:	1	
Car Service Date:	2024-03-26	
Message:	car Service	
Booking Number:	4039091825	

> Car Rental Service:-



> Book Car Rental Service:-



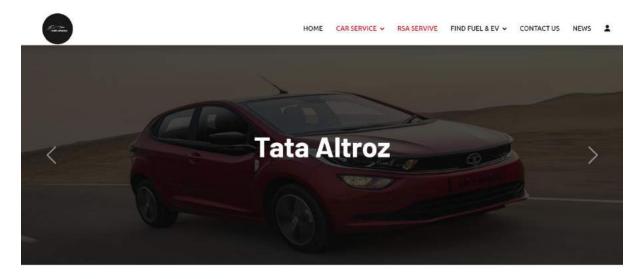
> Car Service Package Details:-

Booking Number

Car Rent Details Name : jenish : jenishkanpariya1234@gmail.com Email Mobile : 7896556699 Car Name : Honda Amaze Car Model Name : Honda Amaze Pick Up Point : mota varachha Drop Point : kamrej Price : 1700 Fuel Price :500 Address : mota varachha Time :1 Day

: 2421936323

> Car Booking Service:-



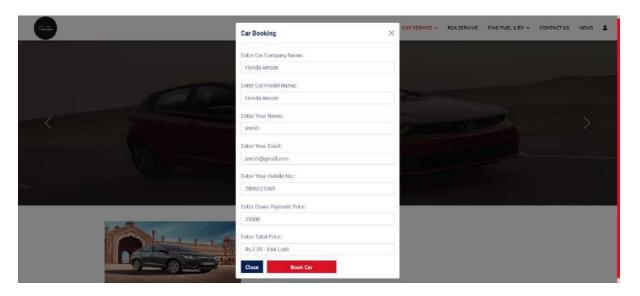


Other Car Brochure

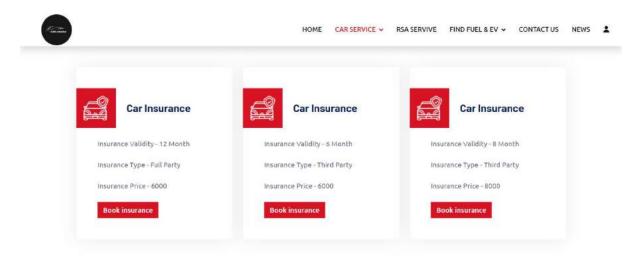


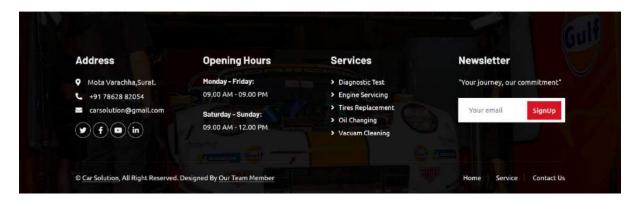


▶ Book Car :-

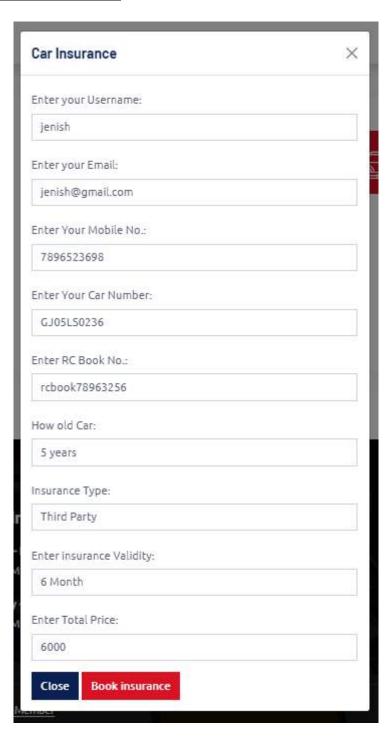


Car Insurance :-





Book Car Insurance :-



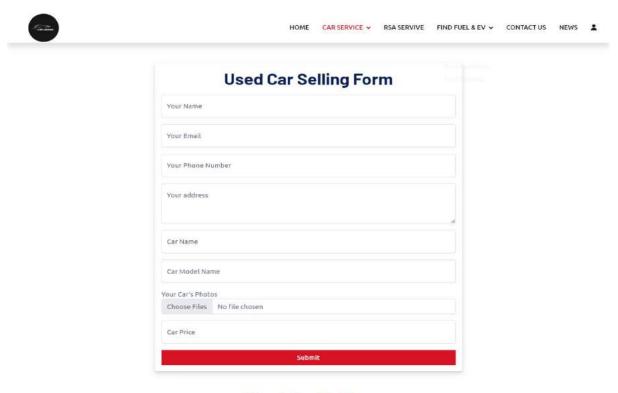
> Show Car Insurance Data :-

Car Insurance Details

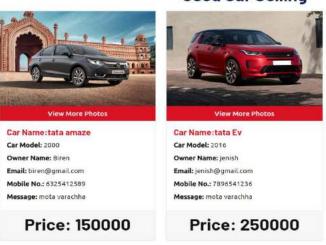
Name:	jenish
Email:	jenish@gmail.com
Mobile:	7896523698
Car Number:	GJ05LS0236
Rc Book Number:	rcbook78963256
How Old Car:	5 years
Policy Number:	1281544836
Insurance Start Date And Time:	2024-03-26 19:41:00
Insurance Type:	Third Party
Validity:	6 Month
Price:	6000

Download PDF

> Show Used Car Data :-

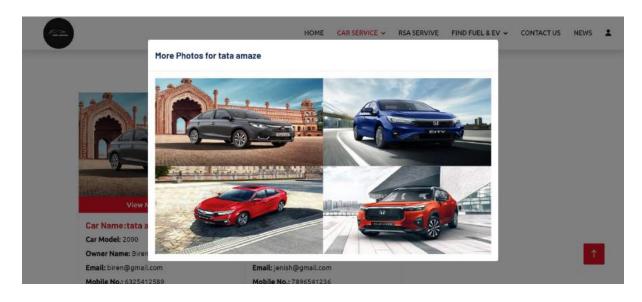


Used Car Selling



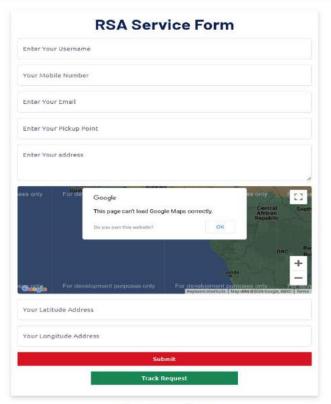


> Show Used Car Data(Image gallery) :-



> RSA Service:-





Our Service



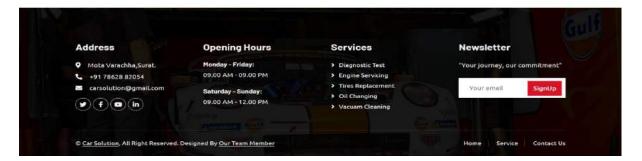




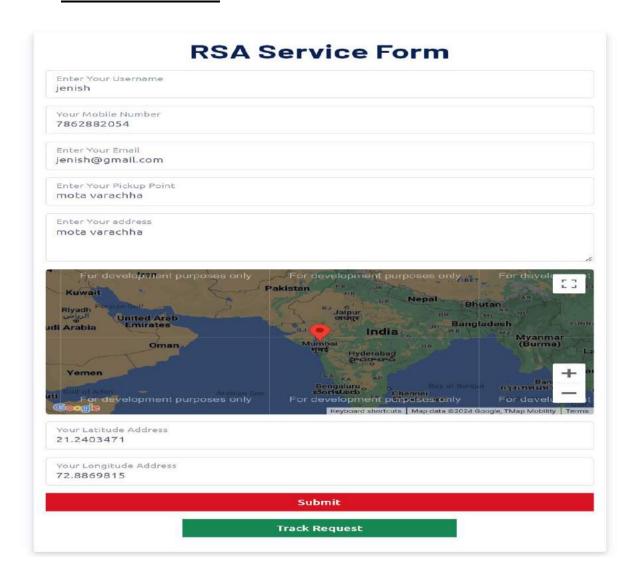








Book RSA Service:-



> Track RSA Service Request :-

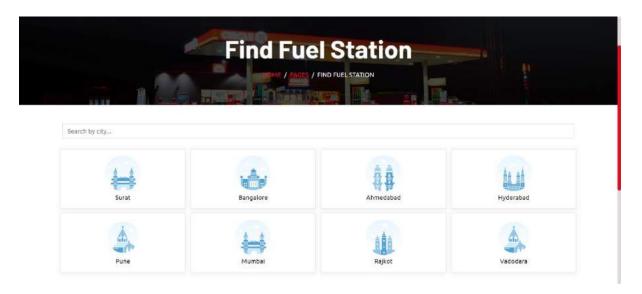


> RSA Service Details:-

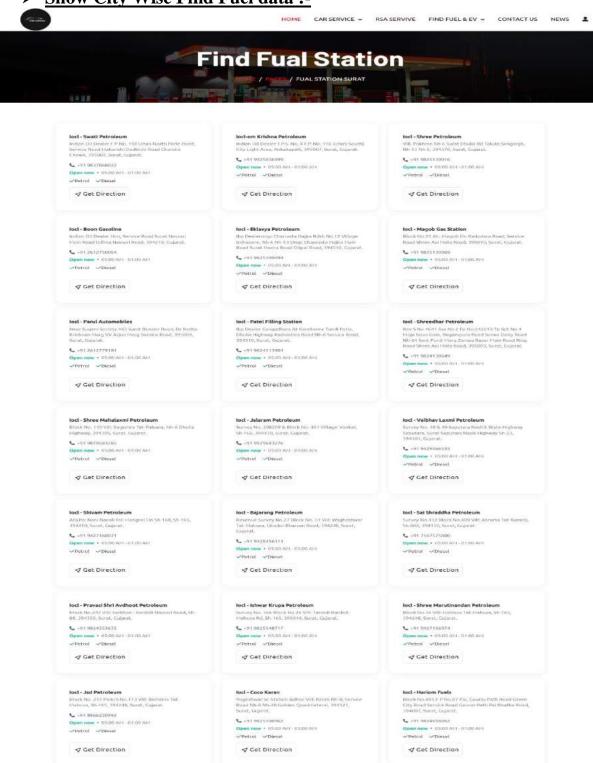
RSA Service Booking Details

Username:	jenish
Mobile No.:	7862882054
Email ID:	jenish@gmail.com
PickUp Point:	mota varachha
Address:	mota varachha
Latitude:	21.2399998
Longitude:	72.8890227
Booking id:	1198797719

> Show Find Fuel data :-

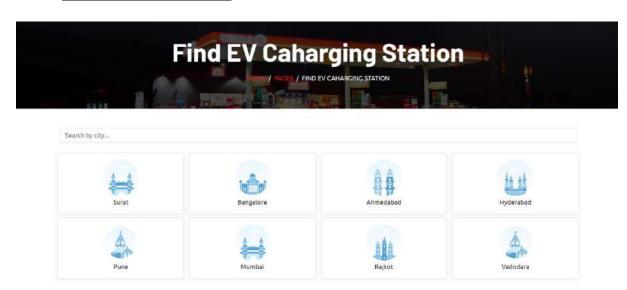


> Show City Wise Find Fuel data :-



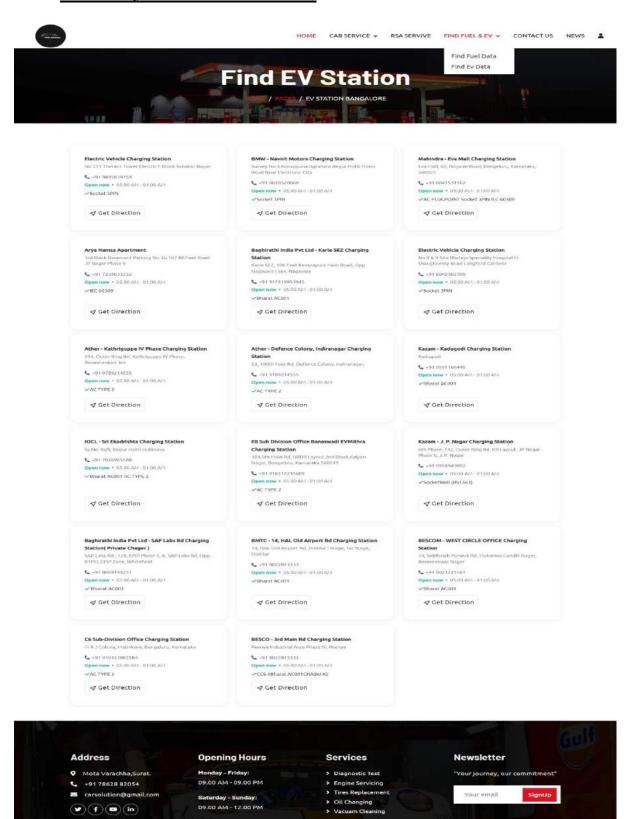


> Show Find Ev data :-



> Show City Wise Find EV data :-

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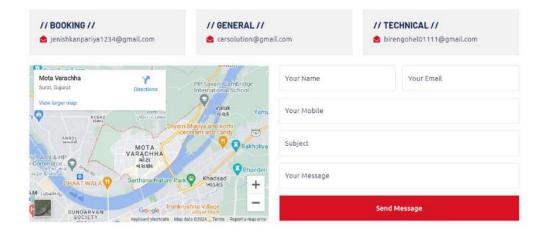
Home Service Contact Us

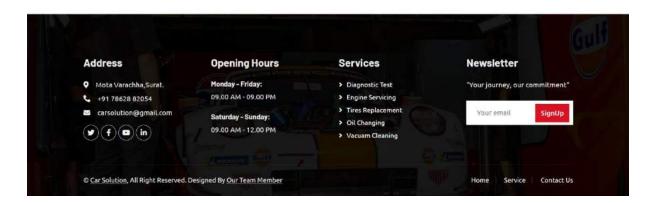
> Show Contact Us data :-



// CONTACT US //

Contact For Any Query





> Show News data :-







> Show User Profile :-

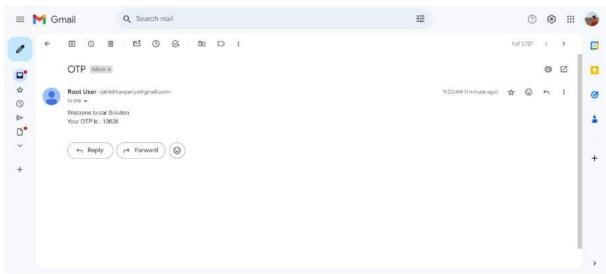


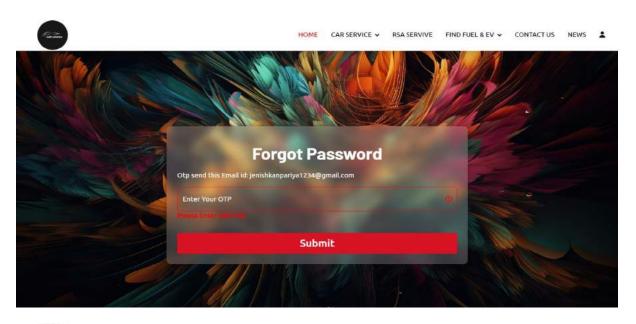


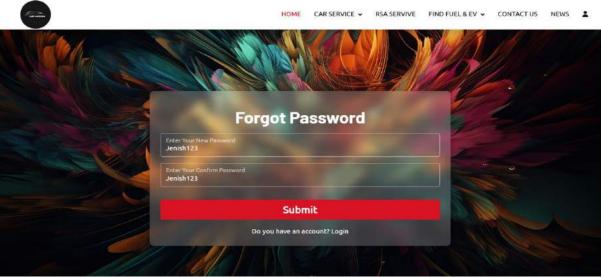


> Forgot Password :-



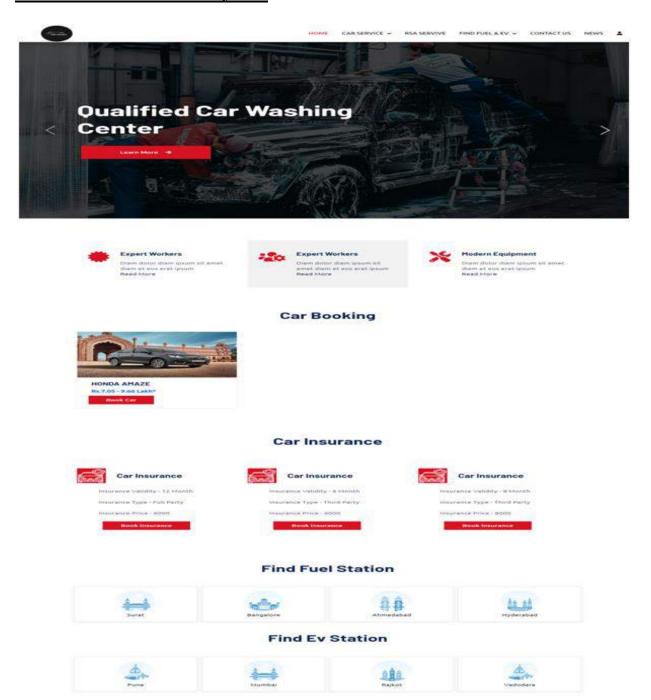








7.3. Visitor Site Screen Lay Out







Our Services Packages



Our Expert Technicians







Ch:-8 Testing (Unit and Integration)

8.1.Unit Testing:-

Unit testing involves testing individual components or units of the car solution in isolation. These units could range from software modules controlling various functionalities such as engine management systems, infotainment systems, to hardware components like sensors, actuators, and controllers.

- ✓ **Isolation of Components:** Unit testing allows engineers to isolate specific components or modules, enabling them to verify their functionality independently of the larger system. This isolation aids in pinpointing defects and simplifies debugging processes.
- ✓ **Early Detection of Issues:** By testing individual units early in the development cycle, potential issues and bugs can be identified and addressed promptly. This early detection helps in preventing the escalation of problems into more complex issues later in the development lifecycle.
- ✓ **Automation:** Unit testing is highly amenable to automation, with various testing frameworks and tools available to streamline the process. Automated unit tests facilitate rapid and repetitive testing, ensuring thorough coverage of code and minimizing the chances of regression.
- Code Quality Improvement: Writing unit tests often necessitates modular, well-structured code that is easier to maintain and comprehend. Consequently, unit testing not only validates the functionality but also contributes to overall code quality and maintainability.

8.2.Integration Testing:

Integration testing focuses on verifying the interactions and interfaces between different components or subsystems of the car solution. This phase ensures that individual units, when integrated, function cohesively as a unified system.

- ✓ **Interaction Verification:** Integration testing evaluates how various components interact with each other and assesses the compatibility and consistency of their interfaces. This verification is crucial for identifying any mismatches or inconsistencies that may arise during integration.
- ✓ **Data Flow and Communication Testing:** Car solutions involve complex data flow and communication between numerous subsystems, such as between the engine control unit, sensors, and the central computing system. Integration testing validates the seamless flow of data and communication protocols, ensuring reliable operation under diverse conditions.
- ✓ **System Behavior Validation:** Integration testing allows engineers to validate the behavior of the entire system under realistic conditions, simulating scenarios encountered in real-world usage. This validation helps in identifying integration-related issues such as timing constraints, resource conflicts, and error handling mechanisms.
- ✓ **Dependency Management:** Integration testing assists in managing dependencies between different modules or subsystems effectively. By detecting and resolving dependencies early in the development lifecycle, integration testing mitigates risks associated with interoperability and dependency conflicts.

Ch:-9 References

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- [7] https://www.php.net/
- [8] https://getbootstrap.com/
- [9] https://www.geeksforgeeks.com/
- [10] https://www.mysql.com/
- [11] https://web.dev/learn/design/media-queries
- $[12] \, \underline{\text{https://en.wikipedia.org/wiki/JavaScript}}$