



**INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE
DEVELOPMENT (IACSD), AKURDI,
PUNE**

Documentation On

DREAM CAR

PG-DAC September 2023

SUBMITTED BY:

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ABSTRACT

The purpose of Dream Car is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

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

The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Rohit Puranik (Center Coordinator, IACSD, Pune) and Mr. Narendra Pawar (Course Coordinator, IACSD Pune).

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Institute of Advanced Computing and Software Development(IACSD), Pune for their support.

- Akash Audumbar Gund (230941220009)
- Jayesh Suhas Thombare (230941220196)

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1. INTRODUCTION

The " Dream Car" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the entity to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Dream Car, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

It helps to overcome and manage the information of Car, Car Specification, Booking, Maintenance Services, Test Drive, Insurance, Finance facilities. In accordance with different Car related services needs, we have designed exclusive salesperson management systems that are adapted according to managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. This system will ultimately allow you to better manage resources.

This project Dream Car enables the user to access various services available. The system will track the services opted by user for cars, booking of car, managing insurance, finance, test drive for car.

1.1 Objective of Project on Dream Car:

The main objective of the Project on Dream Car is to manage the details of Car, Car Booking, Test drive, Insurance, Finance. The project is built in accordance to the user perspective so that there is easy to use interface, salesperson will have control over the services opted by the user and the internals will be managed by admin. The purpose of the project is to build an application program to reduce the manual work for managing the Car and all the relating services offered.

1.2 Functionalities provided by Dream Car are as follows:

- Provides the facility to view various services available on the platform.
- Provides easy to use interface
- Shows the information and description of the Car
- Dream Car also manage the vehicle type details online for car specifications relating the specific models, service details
- It tracks all the information of car booking.
- It manages car maintainance services provided on the platform
- It manages and keeps track of insurance, finance facilities
- It tracks and manages test drives.
- Editing, adding and updating of Records is improved which results in proper resource management of data.

2. NEED OF DREAM CAR

A Dream Car can provide numerous benefits, including :

1. **Improved Efficiency:** With an online Dream Car, user can easily search for the desired car according to his personal needs.
2. **Efficient Data Management:** An online system allows for centralized storage of vehicle-related data, such as registration details, maintenance records, insurance information, and more. This streamlined data management eliminates the need for manual record-keeping and reduces the risk of data loss.
3. **Cost Savings:** By automating the vehicle management process, the need for manual labour and associated costs can be reduced.
4. **Improved Customer Satisfaction:** User can enjoy a more streamlined and convenient car booking, test drive experience, with the ability to quickly find available car models and pay for opted services without having to physically interact with anyone.
5. **Enhanced Data Collection:** The system can generate useful data about car booking patterns, which can be used to inform future decisions and improvements in the vehicle management process.
6. **Scalability:** As a business grows or the size of the vehicle fleet changes, the online system can be easily scaled to accommodate the evolving needs.

Overall, an online Dream Car can lead to a more efficient, secure, and satisfying experience for users, while also providing cost savings and valuable data insights for operators.

3. REQUIREMENTS

3.1 FUNCTIONAL REQUIREMENTS

FR1: Admin must be able to add a new car.

FR2: Admin must be able to update data of existing car.

FR3: Admin must be able to view the information of all the car bookings, logged in users, salespersons.

FR4: Admin must be able to add and delete salesperson.

FR5: Salesperson must be able to view the information of all the car bookings, users, car maintenance services opted by user.

FR6: Salesperson must be able to manage test drive schedules

FR7: Salesperson must be able to manage i.e add and delete finance and insurance

FR8: User must be able to view the details of a selected car such as the car brand name, model name, description, fuel type, image, mileage, price, transmission type, year

FR9: The user must be able to book a car, book test drive for a car, book car maintenance services, opt for insurance and finance during car booking

FR10: The user must be able to calculate EMI for car by the functionality provided on the platform.

FR11: Backend management system must be able to Authenticate users, admin and salesperson before updating any sensitive information.

FR12: Backend management system must be able to Accept booking of cars.

FR13: Backend management system must be able to enable modification of finance and insurances by salesperson.

3.2 NON FUNCTIONAL REQUIREMENTS:

NFR 1: Overall website should be visible to user without registration and login.

NFR 2: The system must be interactive and easy to use.

NFR 3: The delays involved must be less. In case of loading forms for data filling, popping of error messages the delay must be below 2 seconds.

NFR 4: User should be notified upon successful booking of car, car maintainance services, test drive.

NFR 5: System should not stale if accessed by multiple users.

NFR 6: Information transmission should be securely done with server without any changes in information.

NFR 7: Proper login mechanism should be used to avoid hacking.

3.3 OTHER REQUIREMENTS:

Hardware Interfaces:

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

Software Interfaces:

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP). It configures to work with Oracle database. This System works on Apache Tomcat server. It uses browser IE 5.0 & above. It uses IIS 5.0 server.

4. DATABASE DESIGN

4.1 Database Design

The following table structures depict the database design.

Table 1: User Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
user_id	bigint	8	0
address	varchar	255	0
email	varchar	25	0
first_name	varchar	20	0
last_name	varchar	20	1
password	varchar	255	0
phone	varchar	10	0
user_roles	varchar	15	0

Table 2: Car Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
car_id	bigint	8	0
brand_name	varchar	50	1
description	varchar	150	1
fuel_type	varchar	50	1
image	longblob	-	1
mileage	double	8	0
model_name	varchar	50	1
price	double	8	0
transmission_type	varchar	50	1
year	int	4	0

Table 3: Car Specification Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
id	bigint	8	0
car_color	varchar	50	1
dimensions	double	8	0
car_engine	varchar	50	1
horsepower	double	8	0
car_id	bigint	8	1

Table 4: Car Services:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
service_id	bigint	8	0
description	varchar	250	1
booking_date	date	-	1
service_name	varchar	50	1
car_id	bigint	8;	0

Table 5: Test drive Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
test_drive_id	bigint	8	0
comments	varchar	255	1
testdrive_date	date	-	0
car_id	bigint	8	1
user_id	bigint	8	0

Table 6:Booking Details:

Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
booking_id	bigint	8	0
booking_date	date	-	0
delivery_date	datetime	6	0
payment_status	varchar	255	0
car_id	bigint	8	1
finance_id	bigInt	8	1
insurance_id	bigint	8	1
user_id	bigint	8	0

Table 7:Insurance:

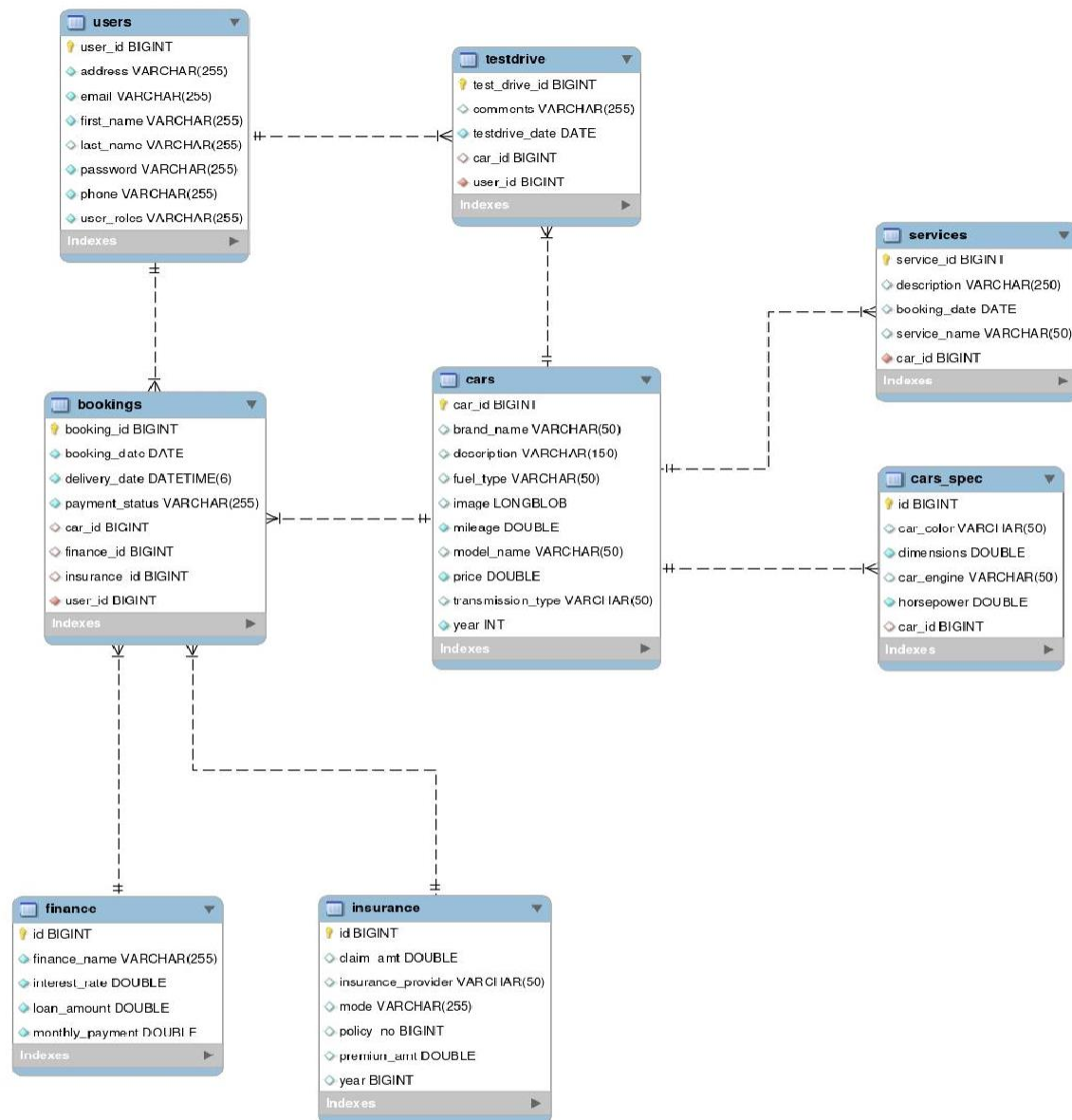
Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
id	bigint	8	0
claim_amt	double	8	1
insurance_provider	varchar	50	1
mode	varchar	255	1
policy_no	bigint	8	1
premium_amt	double	8	1
year	bigint	8	1

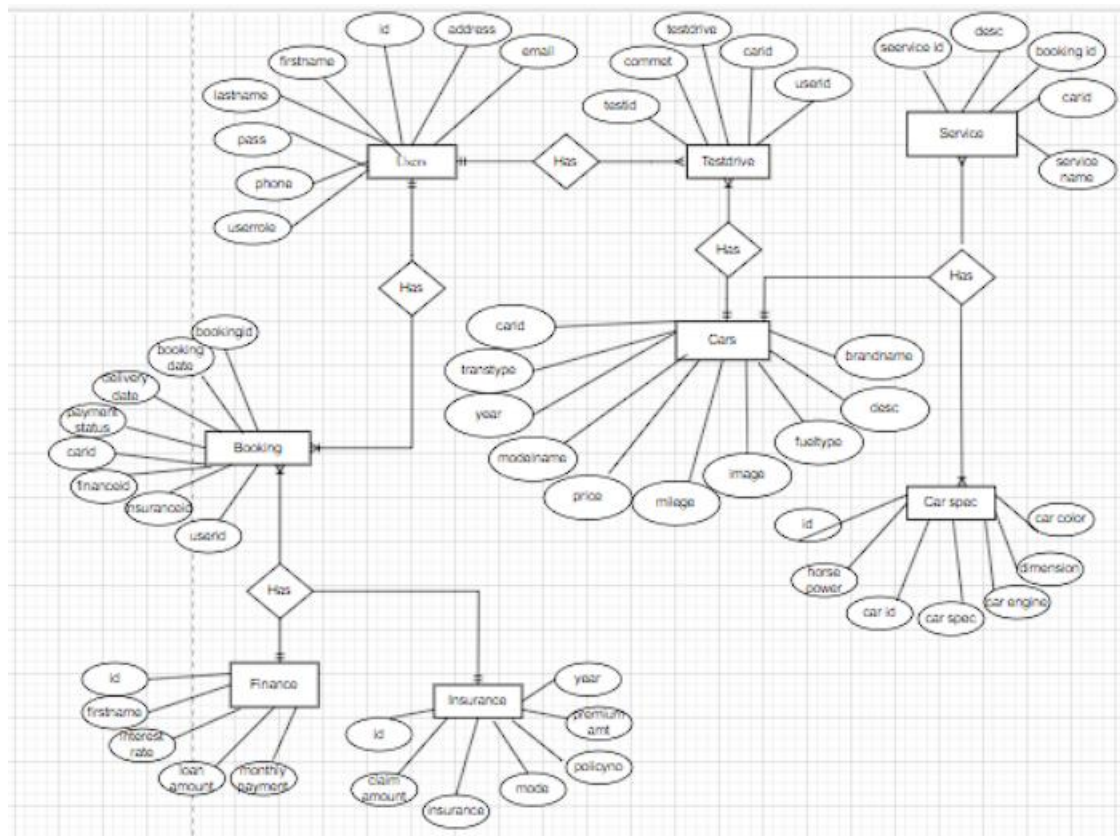
Table 8:Finance Details:

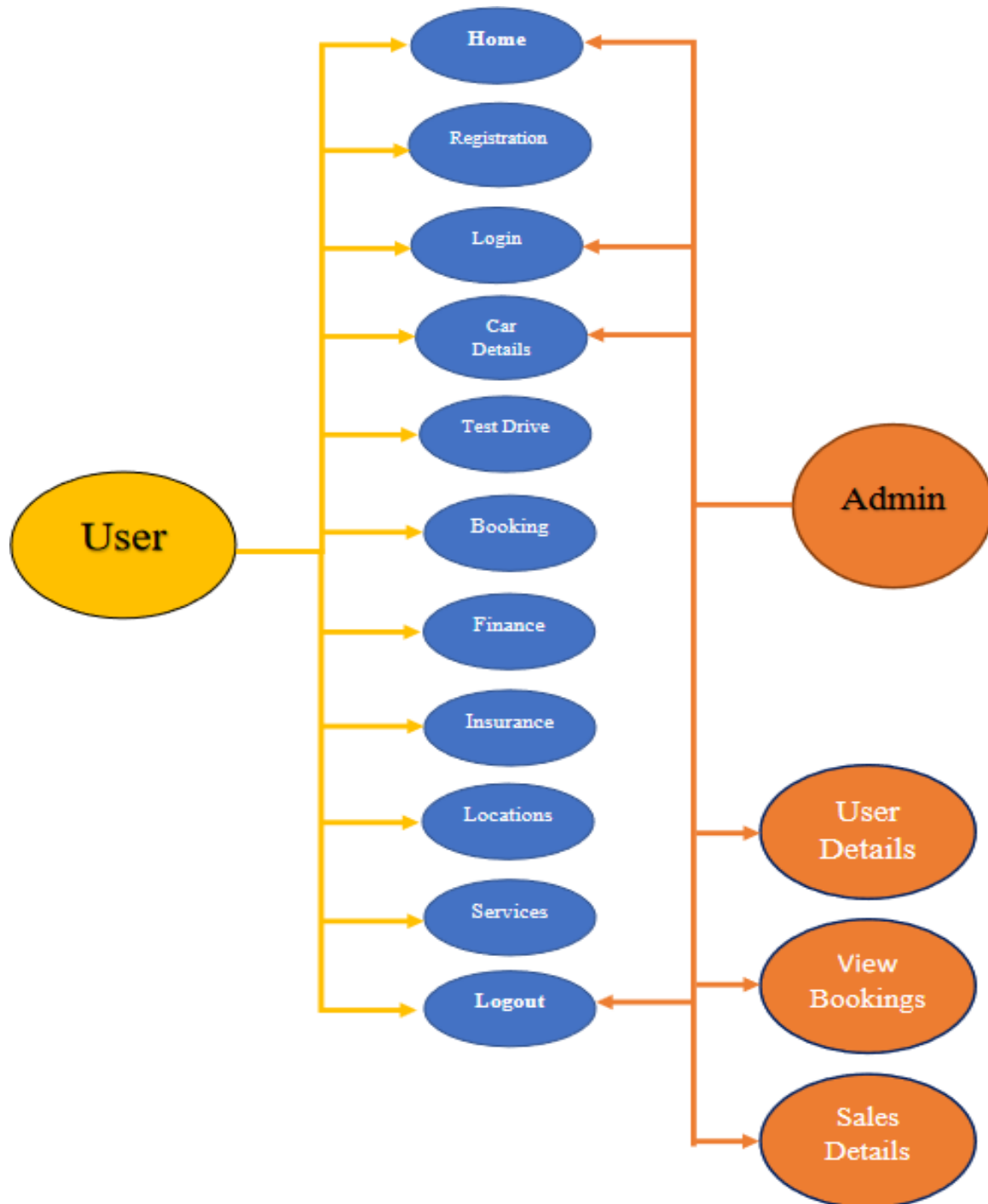
Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
id	bigint	8	0
finance_name	varchar	255	0
interest_rate	double	8	0
loan_amt	double	8	0
monthly_payment	double	8	0

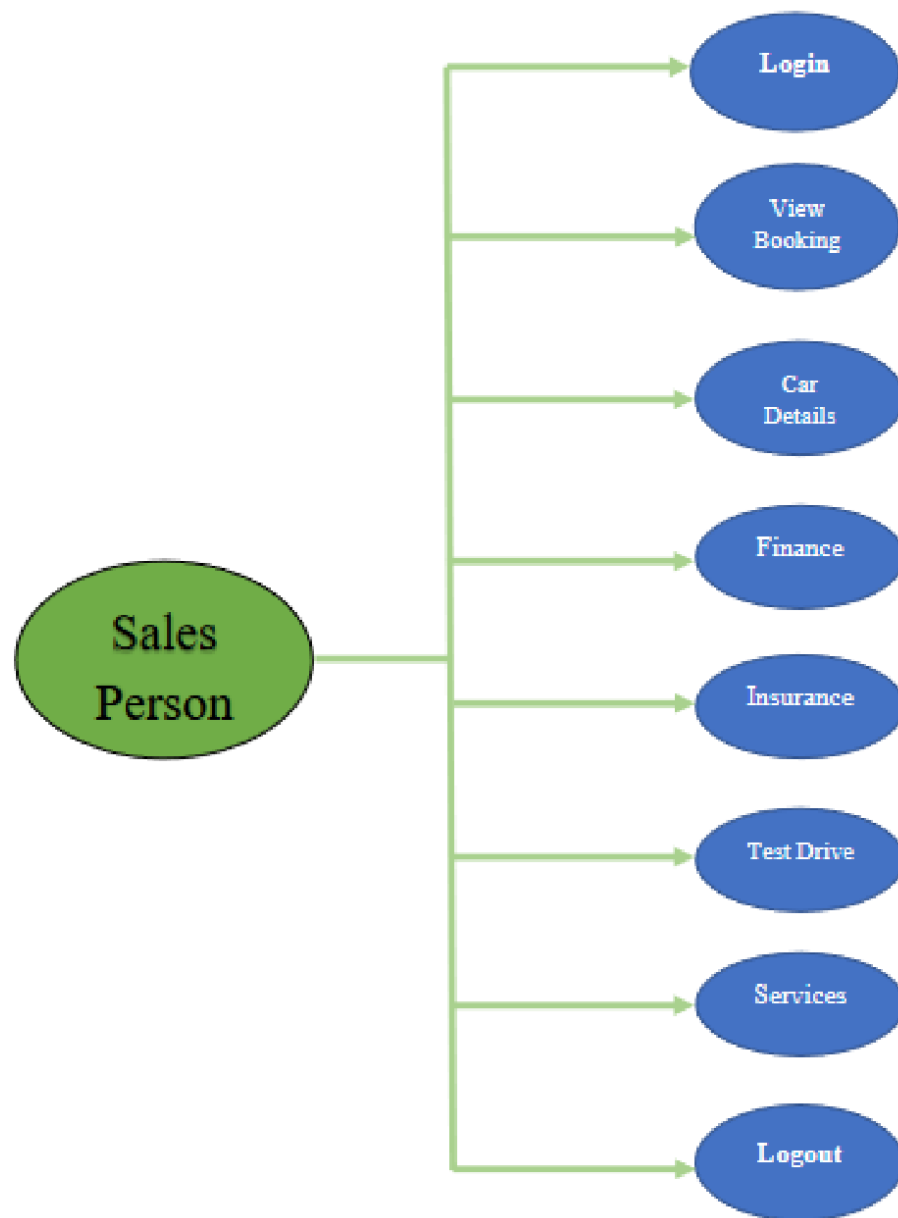
Appendix A

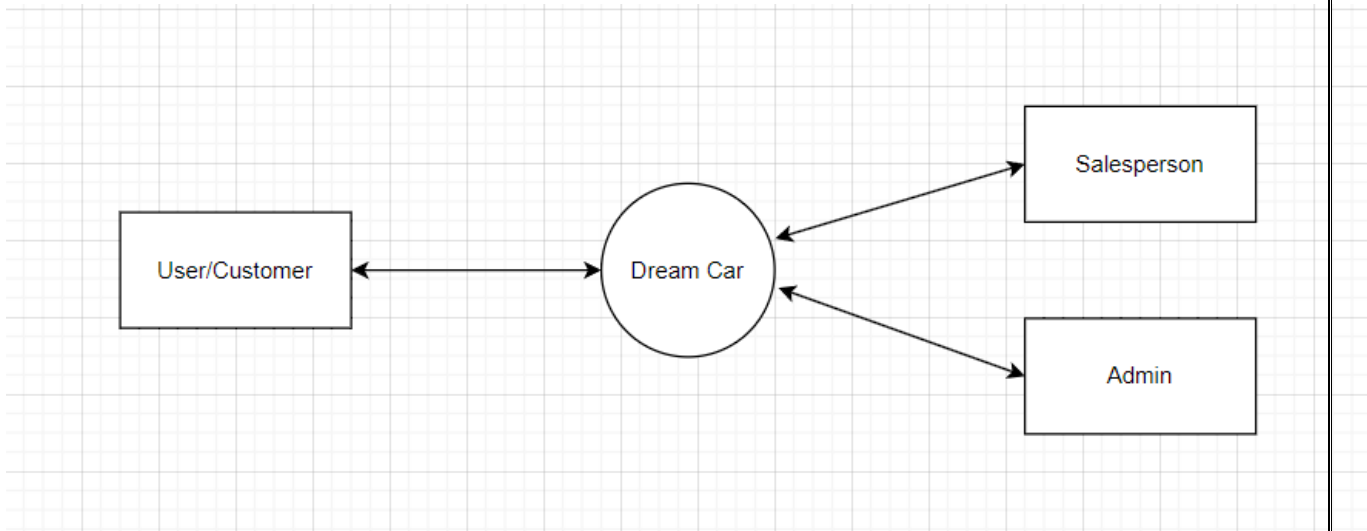
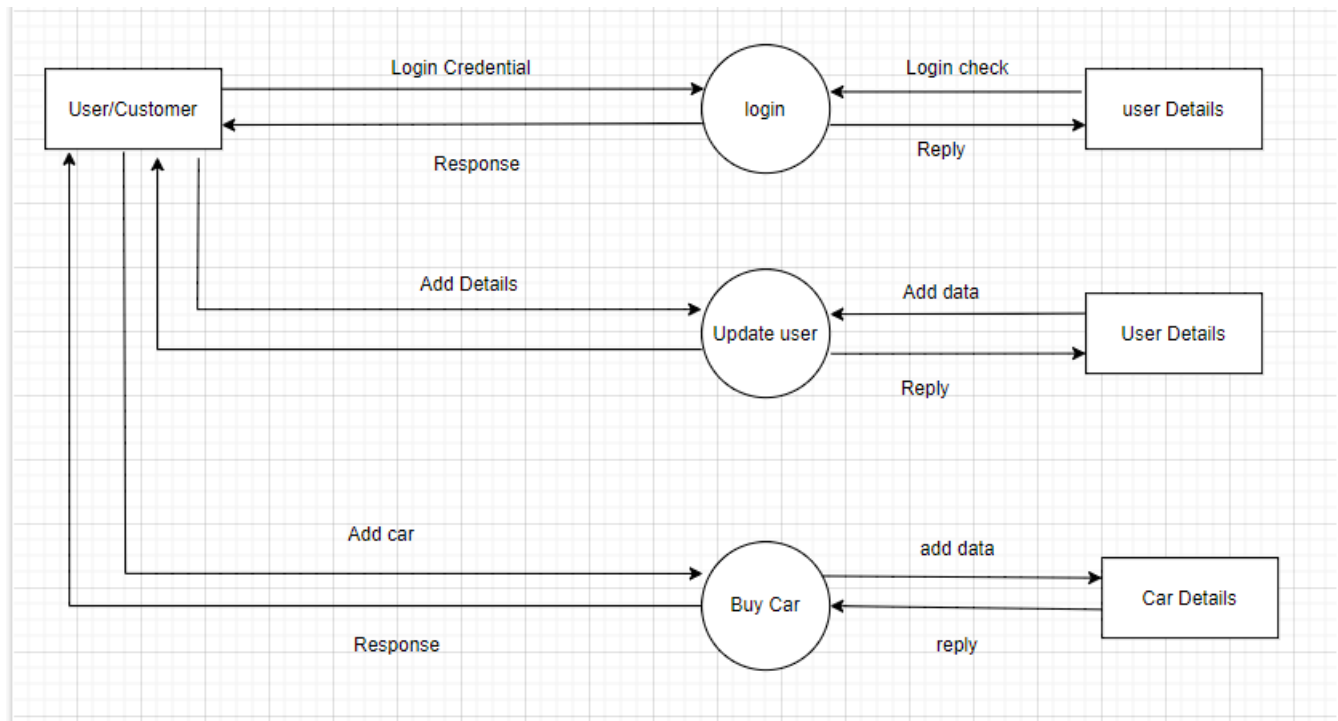
Entity Relationship Diagram:





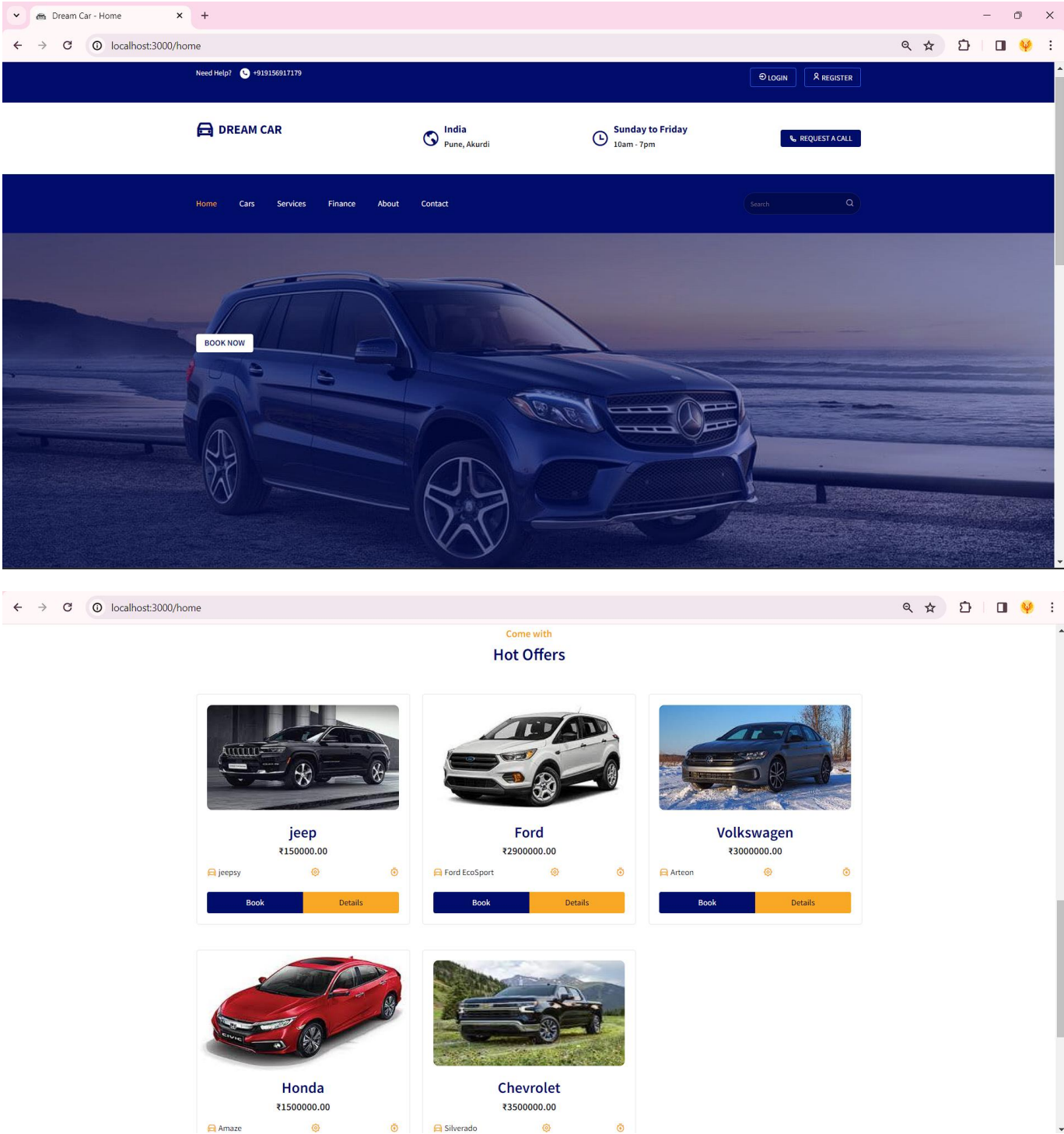
Use case Diagram:



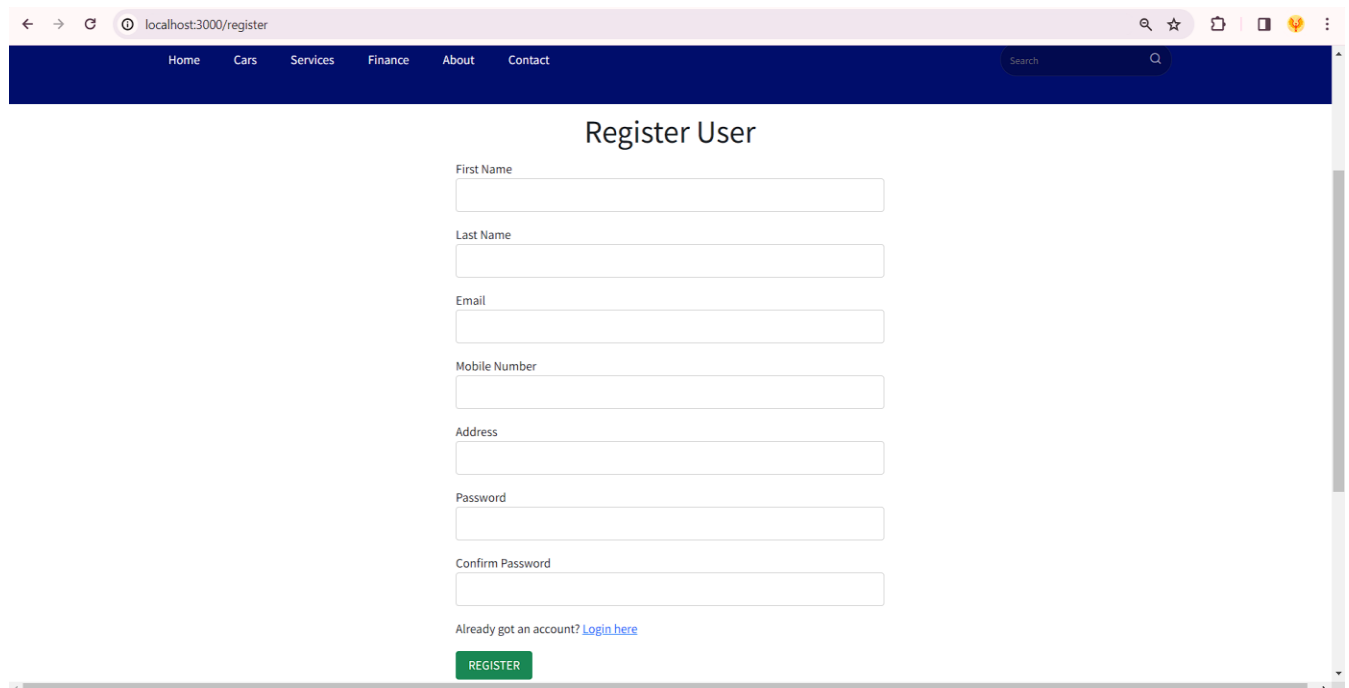
Data Flow Diagram:**Level 0:****Level 1:**

Appendix B

Homepage:

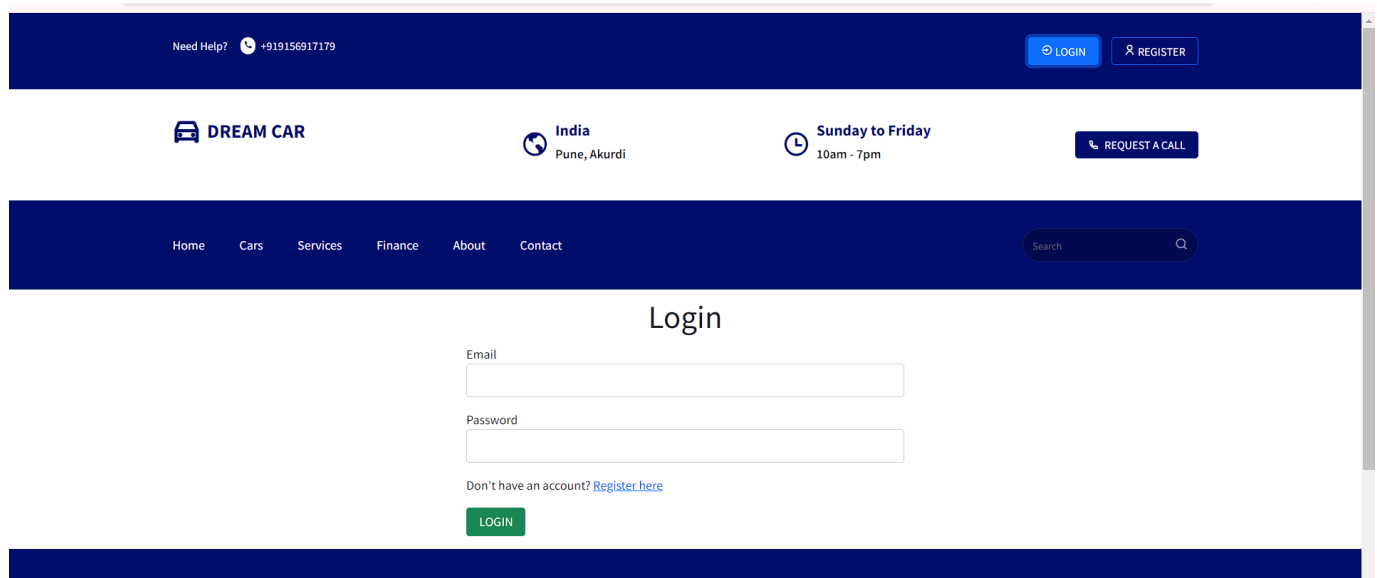


Register:



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/register'. The browser's address bar includes navigation icons (back, forward, refresh) and search, star, and extension icons. The website's header is a dark blue bar with a navigation menu: Home, Cars, Services, Finance, About, and Contact. A search bar is located on the right side of the header. The main content area is titled 'Register User' and contains a form with the following fields: First Name, Last Name, Email, Mobile Number, Address, Password, and Confirm Password. Below the form, there is a link: 'Already got an account? [Login here](#)'. At the bottom of the form is a green 'REGISTER' button.

Login:



The screenshot shows a web browser window displaying the 'Login' form. The browser's address bar is not visible. The website's header is a dark blue bar with a navigation menu: Home, Cars, Services, Finance, About, and Contact. A search bar is located on the right side of the header. The main content area is titled 'Login' and contains a form with the following fields: Email and Password. Below the form, there is a link: 'Don't have an account? [Register here](#)'. At the bottom of the form is a green 'LOGIN' button. The footer is a dark blue bar.

Admin Dashboard:

Need Help? +919156917179

LOGINREGISTER

DREAM CAR

India
Pune, Akurdi

Sunday to Friday
10am - 7pm

REQUEST A CALL

HomeCarsServicesFinanceAboutContact

Search

Admin Dashboard

Car Bookings				
Name	Mobile	Car Brand	Car Model	Price
Akash Gund	9156917179	jeep	jeepsy	₹150000
pranay rahangdale	09156917179	Volkswagen	Arteon	₹3000000
Total Price: ₹3150000				

localhost:3000/admin

Users

ID	Name	Email	Phone	Address
3	pranay	akashgund2105@gmail.com	09156917179	solapur
5	Akash	akash1@gmail.com	9156917179	nashik
6	jayesh	jt@gmail.com	9156917179	nashik

Salesperson

ID	Name	Email	Phone	Address	
2	Jayesh	thombarejayesh001@gmail.com	9421027960	Jalgaon	DELETE

Cars with Details

Id	Brand-Name	Model-Name	year	Fuel-type	Price	Color				
1	jeep	jeepsy	2023	Diesel	150000	black	Choose File	No file chosen	UPLOAD IMAGE	DELETE
2	Ford	Ford EcoSport	2021	Diesel	2900000	black	Choose File	No file chosen	UPLOAD IMAGE	DELETE
3	Volkswagen	Arteon	2020	Diesel	3000000	black	Choose File	No file chosen	UPLOAD IMAGE	DELETE
4	Honda	Amaze	2019	Diesel	1500000	Red	Choose File	No file chosen	UPLOAD IMAGE	DELETE

6

Jeep

Cherokee

2022

Gasoline

32000

Green

Choose file

No file chosen

UPLOAD IMAGE

DELETE

7

Hyundai

Elantra

2022

Gasoline

23000

Gray

Choose file

No file chosen

UPLOAD IMAGE

DELETE

8

Kia

Sorento

2022

Hybrid

29000

Blue

Choose file

No file chosen

UPLOAD IMAGE

DELETE

9

Subaru

Outback

2022

Gasoline

27000

Silver

Choose file

No file chosen

UPLOAD IMAGE

DELETE

10

Volkswagen

Jetta

2022

Gasoline

24000

Red

Choose file

No file chosen

UPLOAD IMAGE

DELETE

ADD-CAR

BACK

Salesperson Dashboard:

Need Help? +919156917179

LOGIN

REGISTER

DREAM CAR

India

Pune, Akurdi

Sunday to Friday

10am - 7pm

REQUEST A CALL

Home

Cars

Services

Finance

About

Contact

Search

Salesperson Dashboard

Car Bookings

First Name	Mobile	Car Brand	Car Model	Booking Date	Payment Status	
Akash Gund	9156917179	jeep	jeepsy	2024-02-20	PENDING	ACCEPT-PAYMENT
pranay rahangdale	09156917179	Volkswagen	Arteon	2024-02-20	PENDING	ACCEPT-PAYMENT

Finances

Loan Amount	Interest Rate	Monthly Payment	Financer	
150000	8	3000	Bajaj Finance	DELETE

Users

Name	Email	Phone	Address
pranay rahangdale	akashgund2105@gmail.com	9421007960	solapur
Akash Gund	akash1@gmail.com	9156917179	nashik
jayesh Thombre	jt@gmail.com	9156917179	sangli

Insurances

Insurance Provider	Policy Number	Permium Amt	Claim Amt	Years	Status
Tata-AIG	2131	100000	80000	3	ACTIVATE


Test Drives

Name	Car	Date	
Akash Gund	jeep	2024-02-29	DELETE
Akash Gund	jeep	2024-02-22	DELETE

Car Services

Service Name	Description
Cleaning	Clean intermar and External part of vehicle
Oil Change	
Tire Rotation	
Brake Inspection	

BACK

 Dream Car

Welcome to Dream Car, where automotive excellence meets personalized service. With a diverse selection of hand-picked vehicles, we strive to provide a seamless and enjoyable car-buying experience. Our knowledgeable team is dedicated to understanding your needs and helping you find the perfect vehicle that fits your lifestyle and aspirations. We ensure that every vehicle in our showroom meets the highest standards of quality and performance.

Quick Links

[About](#)
[Privacy Policy](#)
[Car Listing](#)
[Contact](#)

Head Office

1234 Pune City in Maharashtra, India
Phone: +91-7066830222
Email: thombarejayesh001@gmail.com
Office Time: 10am - 7pm

Newsletter

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Car Listing:

← → ↻ ⓘ localhost:3000/cars 🔍 ☆ 🏠 📱 🌟 ⋮

Home Cars Services Finance About Contact Search


Car Listing



jeep
₹150000.00

jeepsty


Book Details



Ford
₹2900000.00

Ford EcoSport

Book Details



Volkswagen
₹3000000.00


Arteon

Book Details

Car Details:

Home Cars Services Finance About Contact Search

Car Details



Brand Name: Volkswagen
Model Name: Arteon
Year: 2020
Color: black
Fuel Type: Diesel

Price: ₹3000000
Engine: diesel Engine
Mileage: 23
Horsepower: 2500
Transmission Type: Gear-driven

Description:
multi

TEST DRIVE BACK

Booking:

localhost:3000/booking/1

Select Insurance

LIC

Premium Amount: 20000

Year: 5

SBI

Premium Amount: 22000

Year: 7

Select Finance

Bajaj

Loan Amount: 100000

Interest Rate: 8.6

ABC

Loan Amount: 450000

Interest Rate: 7.2

localhost:3000/booking/1

Delivery Date:

dd/mm/yyyy

Enter Payment Details

☐ Card Payment ☐ Cash Payment


Card Number:

Enter card number

CW:

Enter CW

PAYMENT

**Book Car**

Welcome to VMS, where automotive excellence meets personalized service. With a diverse selection of hand-picked vehicles, we strive to

Quick Links

[About](#)

[Contact Us](#)

Head Office

123 Hinjewadi, Phase 1, Pune, India

Phone: 020-33334567

Newsletter

Subscribe our newsletter


Email:

Test Drive:


Need Help?  +919156917179


 LOGIN

 REGISTER

 DREAM CAR

 India
Pune, Akurdi

 Sunday to Friday
10am - 7pm

 REQUEST A CALL

[Home](#) [Cars](#) [Services](#) [Finance](#) [About](#) [Contact](#)

Search



Test Drive Page

Car Brand:

jeep

Car Model:

jeepsy

Full Name:

Phone Number:

Email:

Test Drive Date:

dd-mm-yyyy



Comments:

Additional comments...



Request Test Drive

Services:

Need Help? +919156917179

LOGIN REGISTER

DREAM CAR

India
Pune, Akurdi

Sunday to Friday
10am - 7pm

REQUEST A CALL

Home Cars **Services** Finance About Contact

Search

Choose the Service You Desire

Oil Change

BOOK SERVICE

Tire Rotation

BOOK SERVICE

Brake Inspection

BOOK SERVICE

Engine Tune-Up

BOOK SERVICE

Finance:

Need Help? +919156917179

LOGIN REGISTER

DREAM CAR

India
Pune, Akurdi

Sunday to Friday
10am - 7pm

REQUEST A CALL

Home Cars Services **Finance** About Contact

Search

EMI Calculator

Loan Amount

51000

Interest Rate (%)

9.1

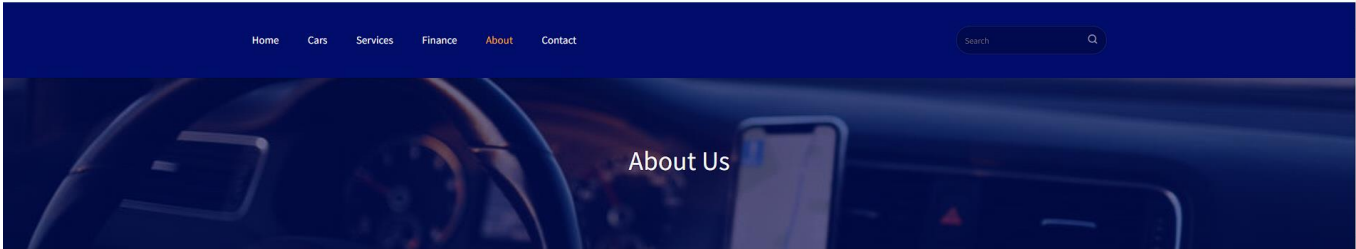
Loan Tenure (months)

20

Calculate EMI

Your EMI: ₹ 2757.90

About Us:



About Us

Welcome to our Showroom

Welcome to Dream Car, where automotive excellence meets personalized service. With a diverse selection of hand-picked vehicles, we strive to provide a seamless and enjoyable car-buying experience. Our knowledgeable team is dedicated to understanding your needs and helping you find the perfect vehicle that fits your lifestyle and aspirations. We ensure that every vehicle in our showroom meets the highest standards of quality and performance. Experience our commitment to exceptional customer service as we guide you through the entire process, offering tailored solutions and financing options to make your dream car a reality. Discover automotive excellence at Dream Car.

- World Class Cars
- Customer Satisfaction
- Standard Services
- Affordable





We Are Committed To Provide Safe Ride Solutions

Lorem ipsum dolor sit, amet consectetur adipiscing elit. Eveniet veniam assumenda aperiam accusantium ex autem perferendis repellendus nostrum delectus. Nemo et dolore est tempore rem minima adipisci magni dolorum ipsam.

Lorem ipsum dolor sit, amet consectetur adipiscing elit. Eveniet veniam assumenda aperiam accusantium ex autem perferendis repellendus nostrum delectus. Nemo et dolore est tempore rem minima adipisci magni dolorum ipsam.

Need Any Help?



+91-9156917179

Experts

Developers



Akash Gund
1 years of experience



Jayesh Thombare
1 years of experience

Contact:

Need Help? +919156917179

[LOGIN](#) [REGISTER](#)

DREAM CAR

India
Pune, Akurdi

Sunday to Friday
10am - 7pm

[REQUEST A CALL](#)

Home Cars Services Finance About **Contact**

Search

Contact

Get in Touch

Your Name

Email

Message

Send Message

Contact Information

123 Hinjewadi, Phase 1, Pune, India
Phone: +91-9156917179
Email: akashgund2105@gmail.com

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<http://www.tutorialspoint.com/mysql/>