MC302
DATABASE MANAGEMENT SYSTEM

Car Sales Database Management Project

NEXA

Submitted By:

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Submitted to,

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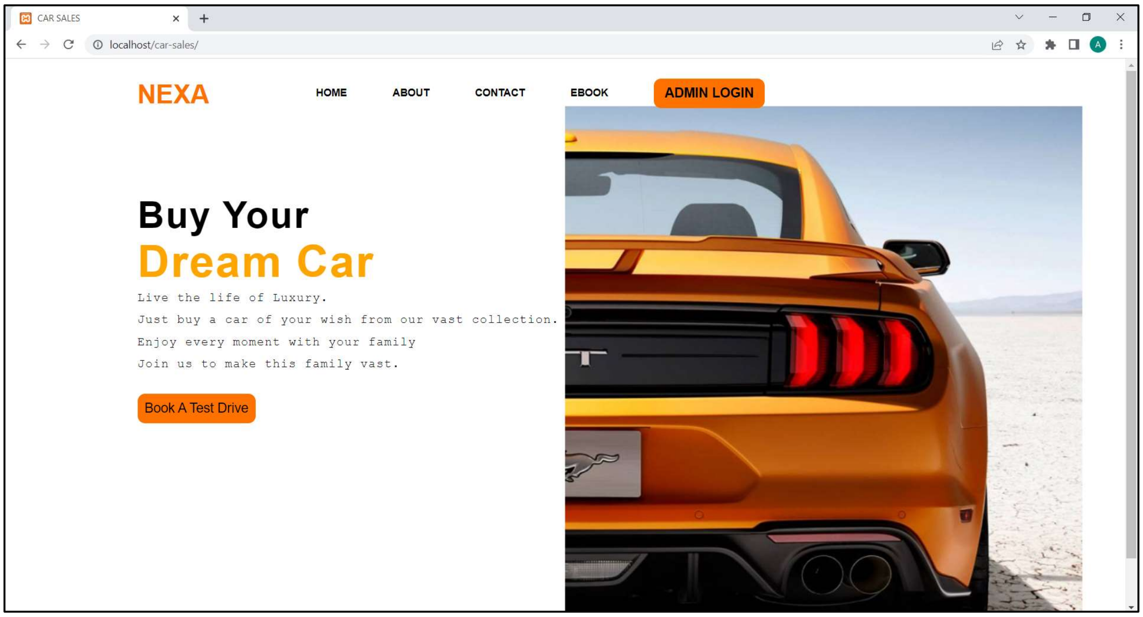
Introduction:

Car Sales Data Management System (NEXA) is a software application that stores and manages information related to admin login, car sales, including customer data, payment related data, sales, and other related information. In this project, we will be using HTML, CSS, PHP, and MySQL to create a car sales type database management system called NEXA.



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Just buy a car of your wish from our vast collection.
Enjoy every moment with your family
Join us to make this family vast.

Tools and technologies:

HTML:

1. HTML stands for Hyper Text Markup Language
2. HTML is the standard markup language for creating Web pages
3. HTML describes the structure of a Web page
4. HTML consists of a series of elements
5. HTML elements tell the browser how to display the content
6. HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

CSS:

1. CSS stands for Cascading Style Sheets
2. CSS describes how HTML elements are to be displayed on screen, paper, or in other media
3. CSS saves a lot of work. It can control the layout of multiple web pages all at once
4. External stylesheets are stored in CSS files

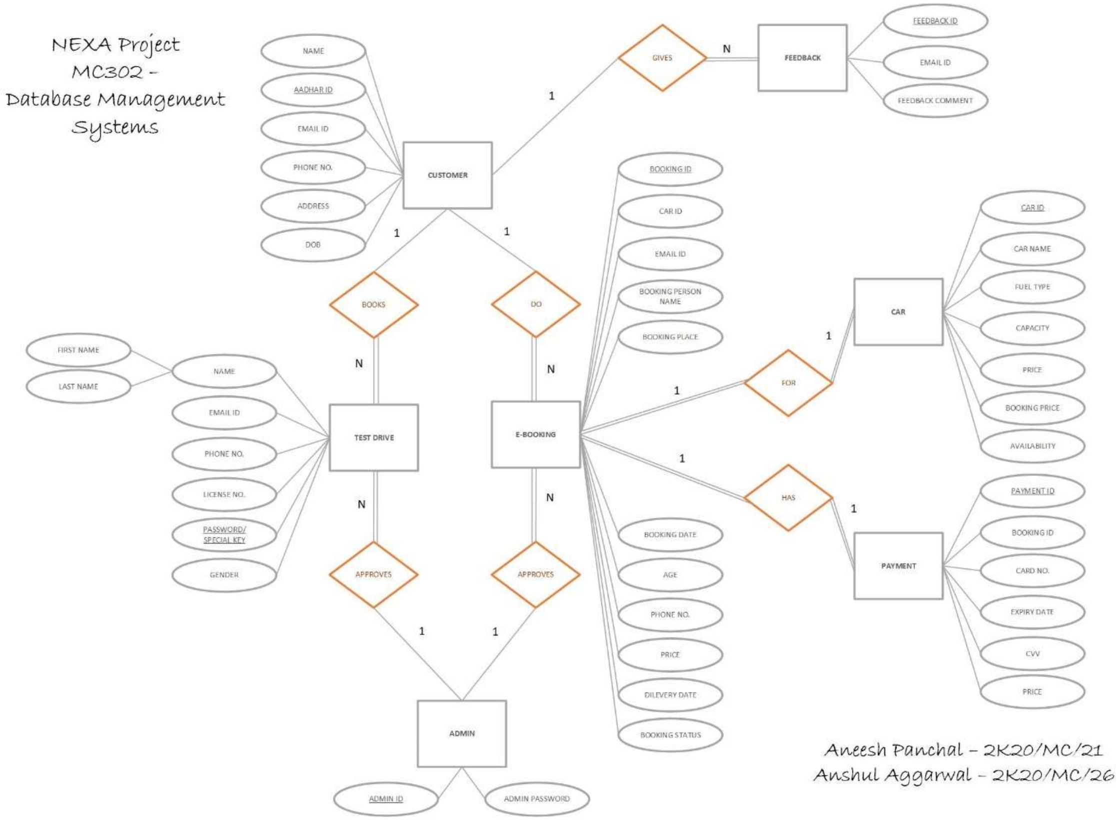
PHP:

1. PHP is an acronym for "PHP: Hypertext Preprocessor"
2. PHP is a widely-used, open source scripting language
3. PHP scripts are executed on the server
4. PHP is free to download and use

MySQL:

1. MySQL is a relational database management system
2. MySQL is open-source
3. MySQL is free
4. MySQL is ideal for both small and large applications
5. MySQL is very fast, reliable, scalable, and easy to use
6. MySQL is cross-platform
7. MySQL is compliant with the ANSI SQL standard
8. MySQL was first released in 1995
9. MySQL is developed, distributed, and supported by Oracle Corporation
10. MySQL is named after co-founder Monty Widenius's daughter: My

Entity Relationship Diagram:



NEXA Project
MC302 -
Database Management
Systems

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Assumptions:

1. All the customers visiting websites are assumed to be potential customers i.e. everyone is customer.
2. One customer can have multiple test drive bookings (the car for which the test drive is to be done to be decided when customer reaches the showroom (subject to availability)).
3. Feedback given by customers can’t be deleted (which is required for further study purpose).

Updates in ER Diagram during Execution:

1. Admin adds and delete the available cars.
2. Customer Database is included in the payment and Test_Drive tables, hence not required any specific table for customers.
3. There is no specific login for customers as we don’t require it because the document verification is done at the showroom itself.
4. Admin is related to cars with adds and delete with 1:N relational cardinality for the relation.

Requirements:

1. The system should have a user-friendly interface.
2. It should allow the user to add, delete and modify vehicle data.
3. It should allow the admin to track sales, test drives and accept & reject the applications from the customers.
4. It should provide security and data backup features (by login facilities).

Database design:

```
CREATE TABLE `admin` (
  `ADMIN_ID` varchar(255) NOT NULL,
  `ADMIN_PASSWORD` varchar(255) NOT NULL);

CREATE TABLE `booking` (
  `BOOK_ID` int(11) NOT NULL,
  `CAR_ID` int(11) NOT NULL,
  `EMAIL` varchar(255) NOT NULL,
  `BOOK_PLACE` varchar(255) NOT NULL,
  `BOOK_DATE` date NOT NULL,
  `AGE` int(11) NOT NULL,
  `PHONE_NUMBER` bigint(20) NOT NULL,
  `BOOKING_PERSON` varchar(255) NOT NULL,
  `PRICE` int(11) NOT NULL,
  `BOOK_STATUS` varchar(255) NOT NULL DEFAULT 'UNDER PROCESSING',
  `DELIVERY_DATE` date DEFAULT NULL);

CREATE TABLE `cars` (
  `CAR_ID` int(11) NOT NULL,
  `CAR_NAME` varchar(255) NOT NULL,
  `FUEL_TYPE` varchar(255) NOT NULL,
  `CAPACITY` int(11) NOT NULL,
  `PRICE` int(11) NOT NULL,
  `BOOKING_PRICE` int(11) NOT NULL,
  `CAR_IMG` varchar(255) NOT NULL,
  `AVAILABLE` varchar(255) NOT NULL);
```

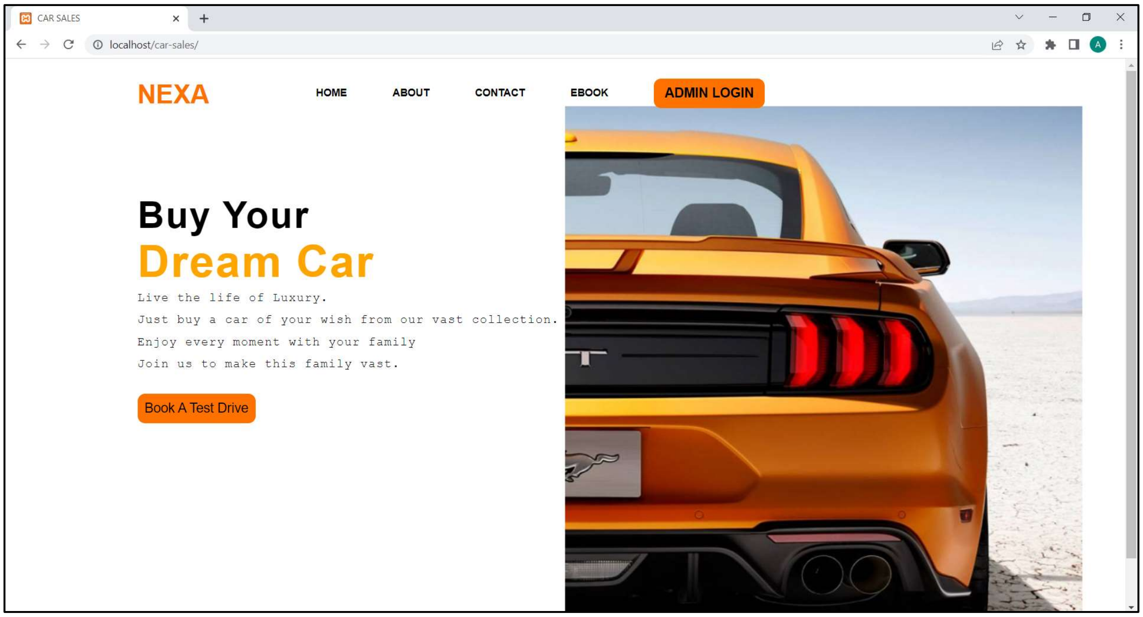
```
CREATE TABLE `feedback` (
  `FED_ID` int(11) NOT NULL,
  `EMAIL` varchar(255) NOT NULL,
  `COMMENT` text NOT NULL);

CREATE TABLE `payment` (
  `PAY_ID` int(11) NOT NULL,
  `BOOK_ID` int(11) NOT NULL,
  `CARD_NO` varchar(255) NOT NULL,
  `EXP_DATE` varchar(255) NOT NULL,
  `CVV` int(11) NOT NULL,
  `PRICE` int(11) NOT NULL);

CREATE TABLE `TEST_DRIVE` (
  `FNAME` varchar(255) NOT NULL,
  `LNAME` varchar(255) NOT NULL,
  `EMAIL` varchar(255) NOT NULL,
  `LIC_NUM` varchar(255) NOT NULL,
  `PHONE_NUMBER` bigint(11) NOT NULL,
  `PASSWORD` varchar(255) NOT NULL,
  `GENDER` varchar(255) NOT NULL);

ALTER TABLE `admin`
  ADD PRIMARY KEY (`ADMIN_ID`);

ALTER TABLE `booking`
  ADD PRIMARY KEY (`BOOK_ID`),
  ADD KEY `CAR_ID` (`CAR_ID`),
  ADD KEY `EMAIL` (`EMAIL`);

ALTER TABLE `cars`
  ADD PRIMARY KEY (`CAR_ID`);

ALTER TABLE `TEST_DRIVE`
  ADD PRIMARY KEY (`EMAIL`);
```

```
ALTER TABLE `feedback`
  ADD PRIMARY KEY (`FED_ID`),
  ADD KEY `TEST` (`EMAIL`);

ALTER TABLE `payment`
  ADD PRIMARY KEY (`PAY_ID`),
  ADD UNIQUE KEY `BOOK_ID` (`BOOK_ID`);

ALTER TABLE `booking`
  MODIFY `BOOK_ID` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=73;

ALTER TABLE `cars`
  MODIFY `CAR_ID` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=22;

ALTER TABLE `feedback`
  MODIFY `FED_ID` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=11;

ALTER TABLE `payment`
  MODIFY `PAY_ID` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=27;


ALTER TABLE `booking`
  ADD CONSTRAINT `booking_ibfk_1` FOREIGN KEY (`CAR_ID`) REFERENCES
`cars` (`CAR_ID`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `payment`
  ADD CONSTRAINT `payment_ibfk_1` FOREIGN KEY (`BOOK_ID`) REFERENCES
`booking` (`BOOK_ID`) ON DELETE CASCADE ON UPDATE CASCADE;
COMMIT;
```

User/Admin interface design:

The user/admin interface will consist of the following pages:

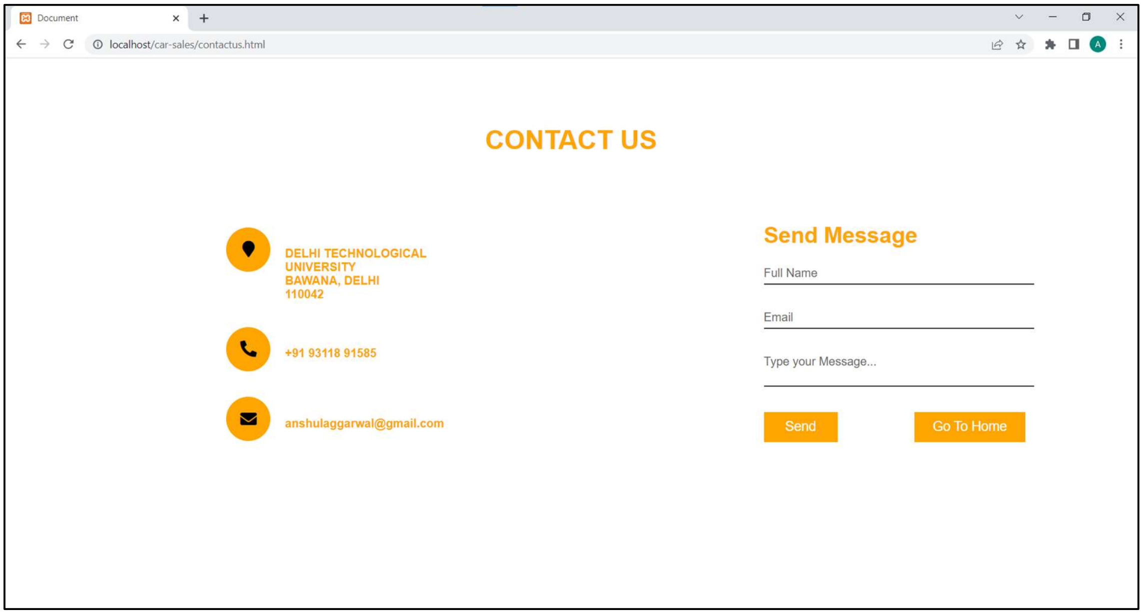
Home page: This page will provide links to all the other pages and option for booking a test drive.



Buy Your
Dream Car

Live the life of Luxury.
Just buy a car of your wish from our vast collection.
Enjoy every moment with your family
Join us to make this family vast.

Contact Us page: This page will allow the user to send enquiry email to the manager of NEXA along with address and mobile number.



CONTACT US

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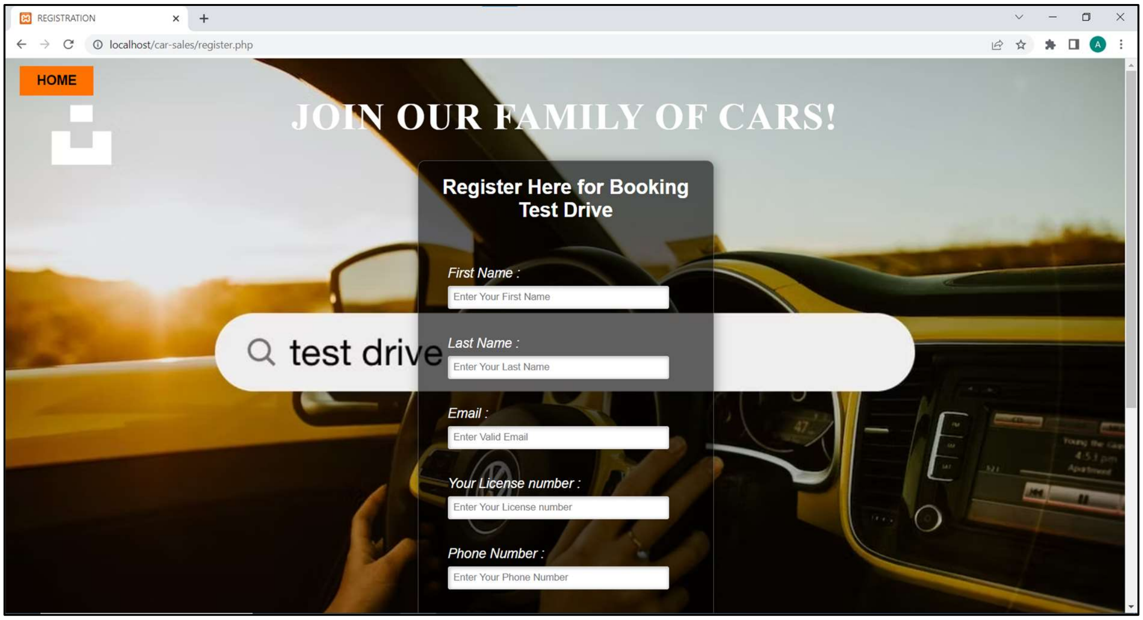
Send Message

Test Drive Booking page: This page will allow the user to book a test drive by providing the required information.



REGISTRATION

localhost/car-sales/register.php

HOME

JOIN OUR FAMILY OF CARS!

Register Here for Booking Test Drive

First Name :

Enter Your First Name

Last Name :

Enter Your Last Name

Email :

Enter Valid Email

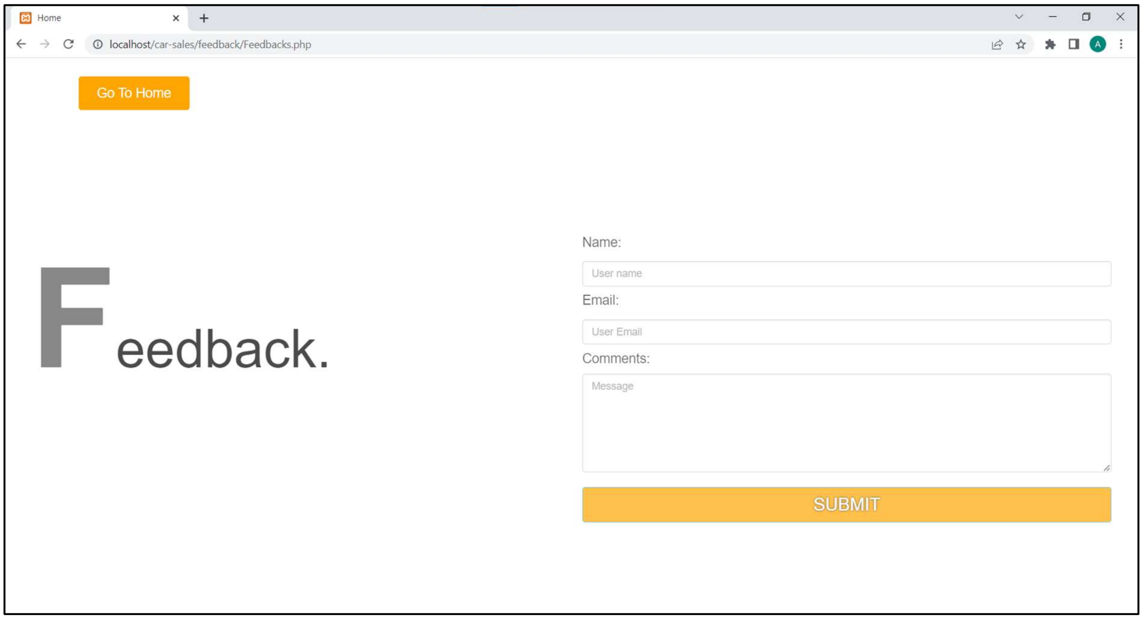
Your License number :

Enter Your License number

Phone Number :

Enter Your Phone Number

Feedback page: This page will allow the user to give feedback about the showroom NEXA and its services.



Home

localhost/car-sales/feedback/Feedbacks.php

Go To Home

Feedback.

Name:

User name

Email:

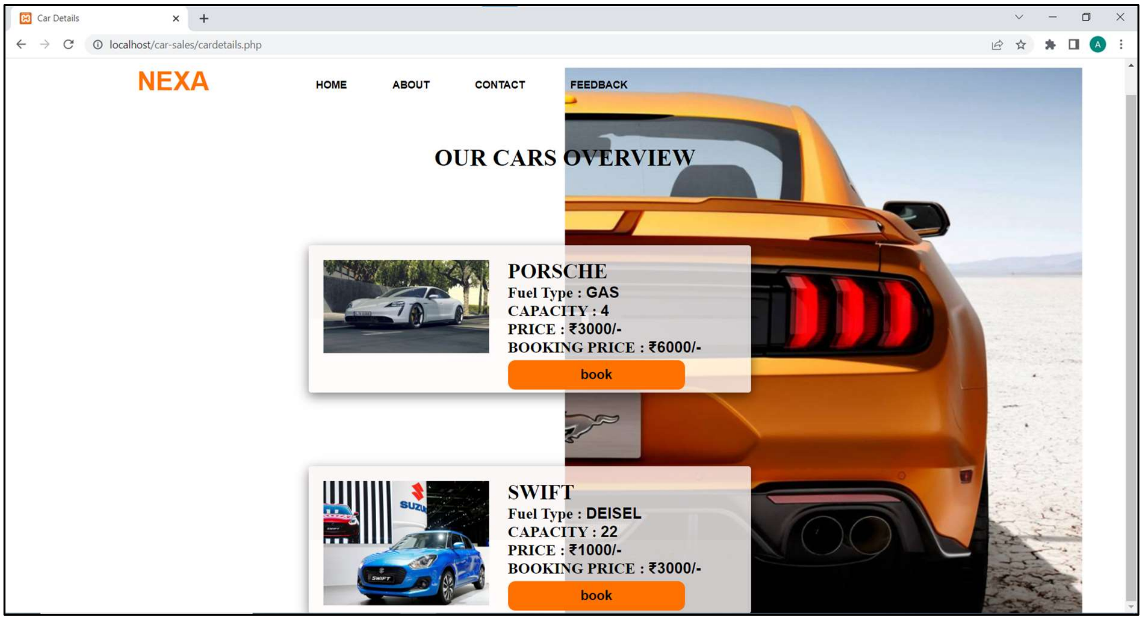
User Email

Comments:

Message

SUBMIT

Cars page: This page will allow the user search for the car he/she wants to buy and its availability along with its specifications.

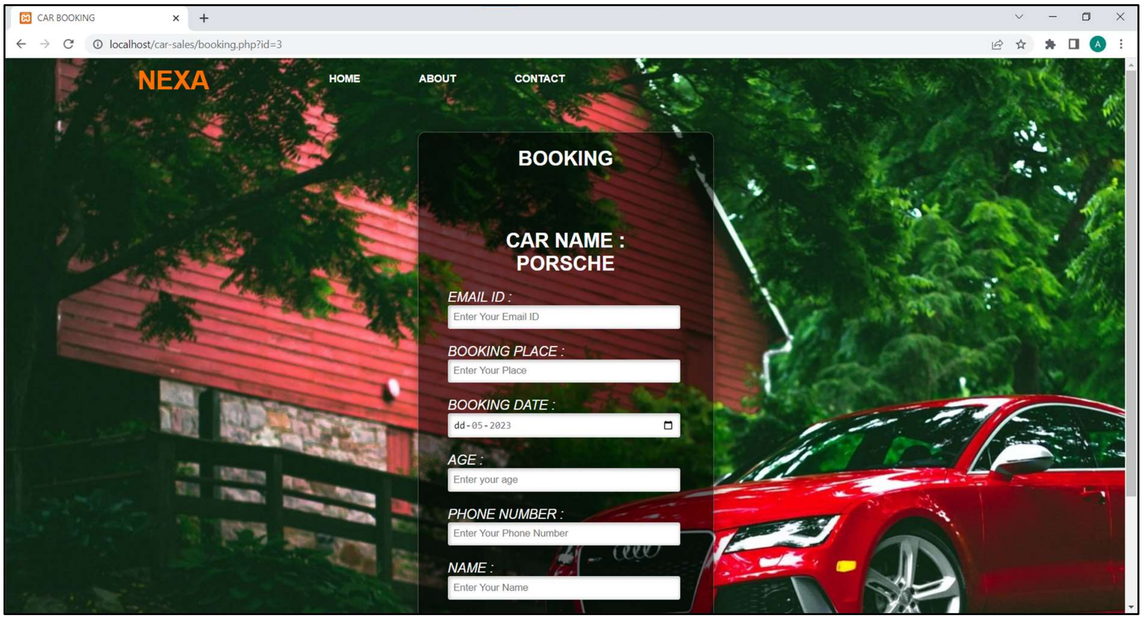


OUR CARS OVERVIEW

PORSCHE
Fuel Type : GAS
CAPACITY : 4
PRICE : ₹3000/-
BOOKING PRICE : ₹6000/-

SWIFT
Fuel Type : DEISEL
CAPACITY : 22
PRICE : ₹1000/-
BOOKING PRICE : ₹3000/-

Booking page: This page will allow the user to book a car by providing the required information.



BOOKING

CAR NAME :
PORSCHE

EMAIL ID :
Enter Your Email ID

BOOKING PLACE :
Enter Your Place

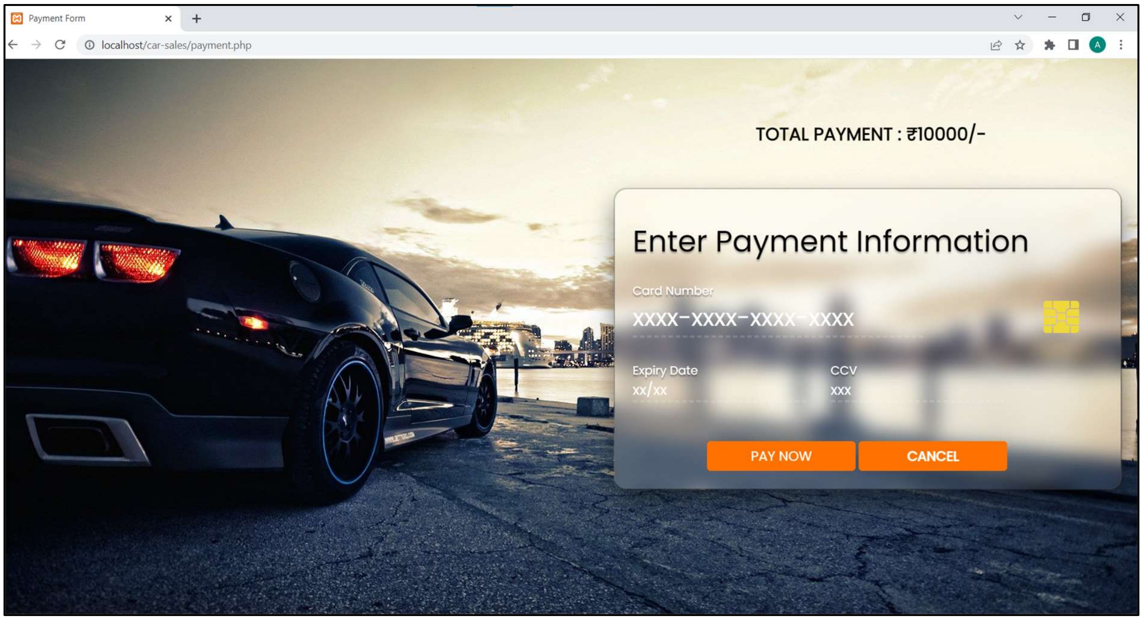
BOOKING DATE :
dd-05-2023

AGE :
Enter your age

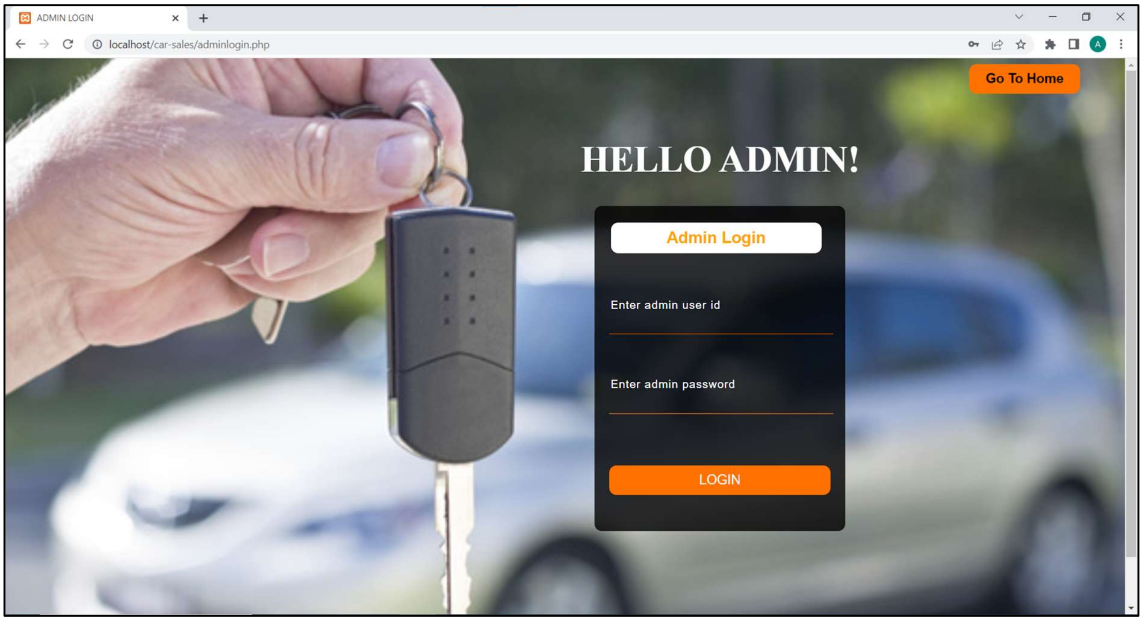
PHONE NUMBER :
Enter Your Phone Number

NAME :
Enter Your Name

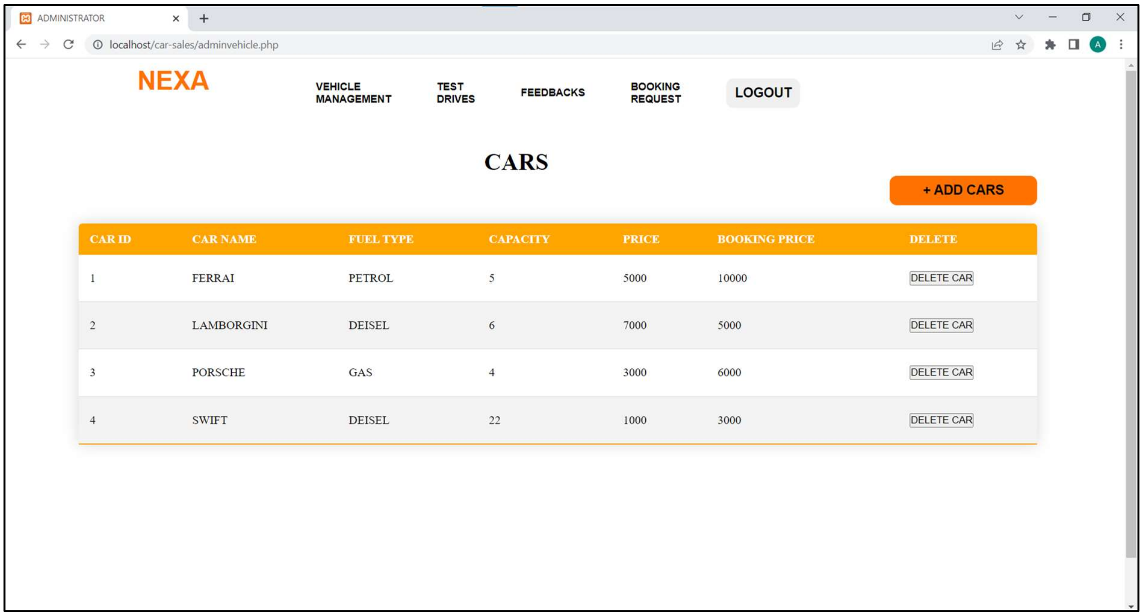
Payment page: This page will help user to make payment by providing information for the car he/she wants to buy.



Admin Login page: This page will provide the pathway for he admin access to the managers and other employees.



Admin Car Management page: This page will allow the admin to add and delete the car data from the database.

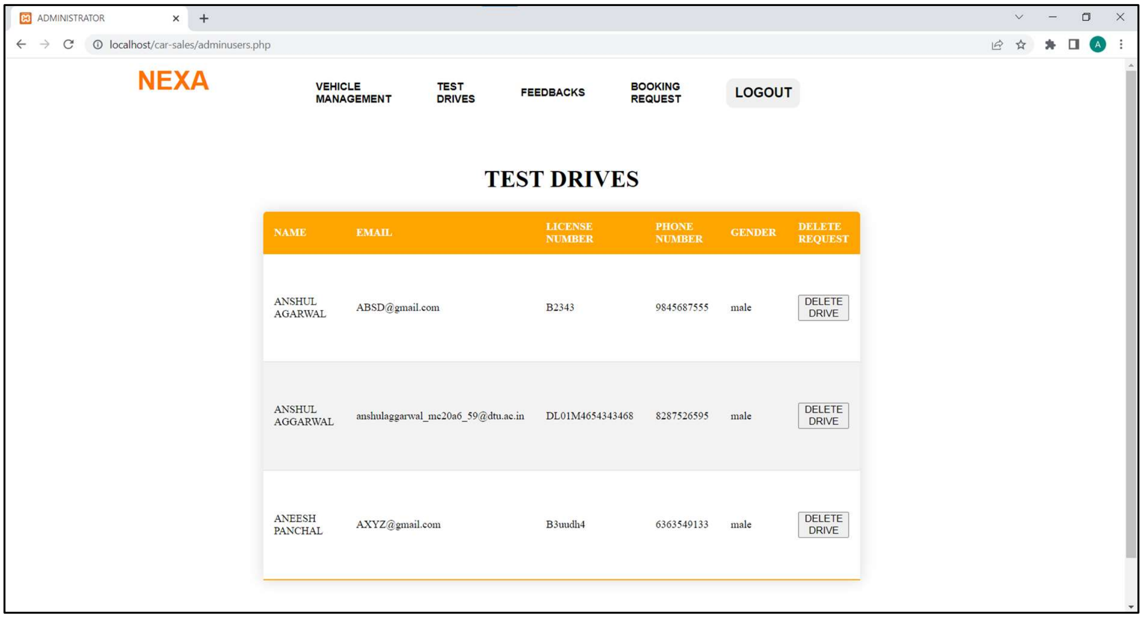


CARS

+ ADD CARS

CAR ID	CAR NAME	FUEL TYPE	CAPACITY	PRICE	BOOKING PRICE	DELETE
1	FERRAI	PETROL	5	5000	10000	DELETE CAR
2	LAMBORGINI	DEISEL	6	7000	5000	DELETE CAR
3	PORSCHE	GAS	4	3000	6000	DELETE CAR
4	SWIFT	DEISEL	22	1000	3000	DELETE CAR

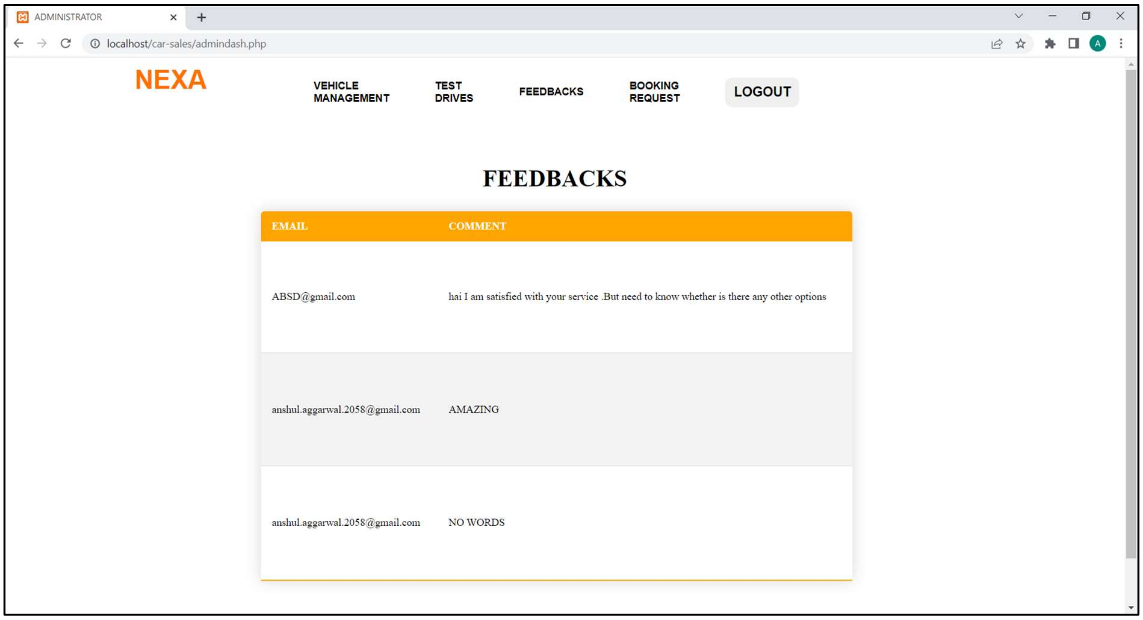
Admin Test Drive Management page: This page will allow the admin to delete the test drive booked by a customer. If not deleted it is automatically assumed to be confirmed.



TEST DRIVES

NAME	EMAIL	LICENSE NUMBER	PHONE NUMBER	GENDER	DELETE REQUEST
ANSHUL AGARWAL	ABSD@gmail.com	B2343	9845687555	male	DELETE DRIVE
ANSHUL AGGARWAL	anshulaggarwal_mc20a6_59@dtu.ac.in	DL01M4654343468	8287526595	male	DELETE DRIVE
ANEESH PANCHAL	AXYZ@gmail.com	B3uudh4	6363549133	male	DELETE DRIVE

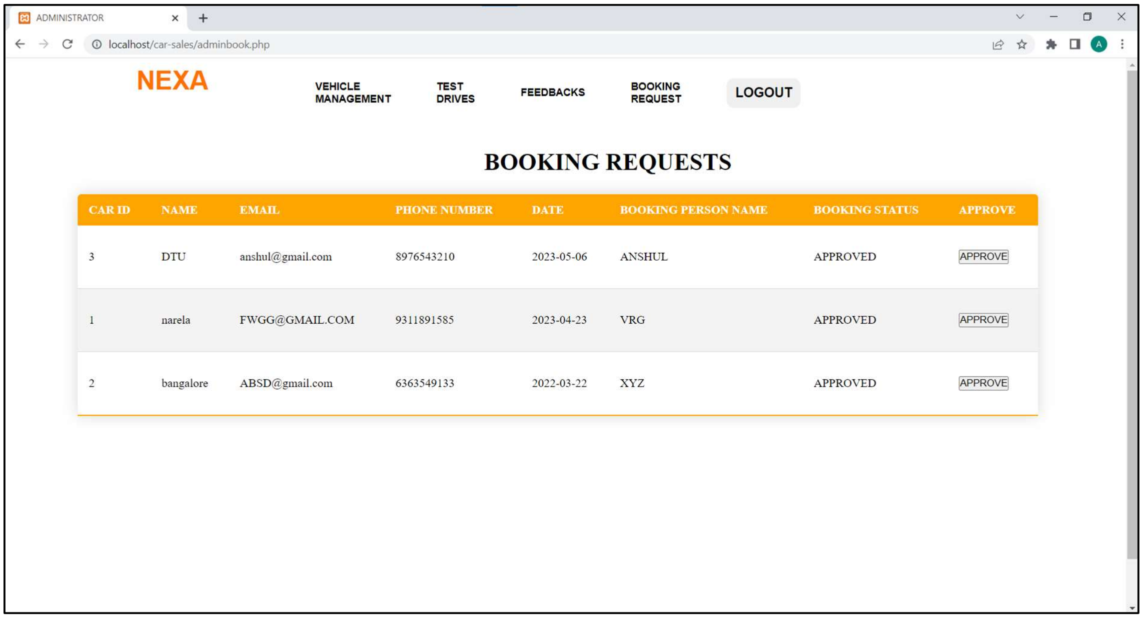
Admin Feedback page: This page will allow the admin to track and view feedbacks provided by different customers.



FEEDBACKS

EMAIL	COMMENT
ABSD@gmail.com	hai I am satisfied with your service .But need to know whether is there any other options
anshul.aggarwal.2058@gmail.com	AMAZING
anshul.aggarwal.2058@gmail.com	NO WORDS

Admin Booking Management page: This page will allow the admin to view and approve the booking request by a customer. Admin will approve only if he get the required payment for that specific car.



BOOKING REQUESTS

CAR ID	NAME	EMAIL	PHONE NUMBER	DATE	BOOKING PERSON NAME	BOOKING STATUS	APPROVE
3	DTU	anshul@gmail.com	8976543210	2023-05-06	ANSHUL	APPROVED	APPROVE
1	narela	FWGG@GMAIL.COM	9311891585	2023-04-23	VRG	APPROVED	APPROVE
2	bangalore	ABSD@gmail.com	6363549133	2022-03-22	XYZ	APPROVED	APPROVE

Implementation:

1. Create a database and the necessary tables using MySQL.
2. Create a user interface using HTML and CSS.
3. Use PHP to connect to the database and retrieve and display data.
4. Use PHP to add, delete, and modify data in the database.

SQL Queries Used:

feedback.php

```
insert into  feedback (EMAIL,COMMENT) values('$email','$comment')
```

adminbook.php

```
SELECT *from booking ORDER BY BOOK_ID DESC
```

admindash.php

```
select *from feedback
```

adminlogin.php

```
select *from admin where ADMIN_ID='$id'
```

adminreturn.php

```
SELECT *from booking where BOOK_Id=$book_id
SELECT *from cars where CAR_ID=$carid
UPDATE cars set AVAILABLE='Y' where CAR_ID=$res[CAR_ID]
UPDATE booking set BOOK_STATUS='BOOKED SUCCESSFULLY' where BOOK_ID=$res2[BOOK_ID]
```

adminusers.php

```
select *from TEST_DRIVE
```

adminvehicle.php

```
SELECT * from cars
```

approve.php

```
SELECT *from booking where BOOK_Id=$bookid
SELECT *from cars where CAR_ID=$car_id
```

```
UPDATE booking set  BOOK_STATUS='APPROVED' where BOOK_ID=$bookid
UPDATE cars set AVAILABLE='N' where CAR_ID=$res[CAR_ID]
```

booking.php

```
select *from cars where CAR_ID='$carid'
insert into booking
(CAR_ID,EMAIL,BOOK_PLACE,BOOK_DATE,AGE,PHONE_NUMBER,BOOKING_PERSON,PRICE,DELIVERY_DATE)
values($carid,'$uemail','$bplace','$bdate',$dur,$phno,'$nam',$price,'$rdate')
```

bookinstatus.php

```
select * from booking where EMAIL='$email' order by BOOK_ID DESC LIMIT 1
select * from TEST_DRIVE where EMAIL='$email'
select * from cars where CAR_ID='$car_id'
```

cancelbooking.php

```
delete from booking where BOOK_ID = '$bid' order by BOOK_ID DESC limit 1
```

cardetails.php

```
select * from TEST_DRIVE where EMAIL='$value'
select *from cars where AVAILABLE='Y'
```

deletecar.php

```
DELETE from cars where CAR_ID=$carid
```

deleteuser.php

```
DELETE from TEST_DRIVE where EMAIL='$email'
```

index.php

```
select *from TEST_DRIVE where EMAIL='$email'
```

payment.php

```
select *from booking where EMAIL='$email' order by BOOK_ID DESC
insert into payment (BOOK_ID,CARD_NO,EXP_DATE,CVV,PRICE)
values($bid,'$cardno','$exp',$cvv,$price)
```

register.php

```
SELECT *from TEST_DRIVE where EMAIL='$email'
insert into TEST_DRIVE
(FNAME,LNAME,EMAIL,LIC_NUM,PHONE_NUMBER,PASSWORD,GENDER)
values('$fname','$lname','$email','$lic',$ph,'$Pass','$gender')
```

upload.php

```
INSERT INTO
cars(CAR_NAME,FUEL_TYPE,CAPACITY,PRICE,BOOKING_PRICE,CAR_IMG,AVAILABLE)
values('$carname','$ftype',$capacity,$price,$bookingprice,'$new_img_name','$available')
```

Conclusion:

In this project, we have created a car sales database management system, NEXA using HTML, CSS, PHP, and MySQL. The system allows the user to book test drive, make bookings of the car, provide feedback. The system also allows admin to approve and delete the request for the various tasks and also add & delete cars in the database. The system provides security and data backup features (by admin logging) to ensure the safety and integrity of the data.

Note:

All the files and the data related to this project is available at,
https://github.com/Aneeshcoder/NEXA
https://github.com/anshulagg02/NEXA

References:

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