HOTEL BOOKING SYSTEM

Project report (CA3) submitted in fulfilment of the requirements for the
Degree of
BACHELOR OF TECHNOLOGY in
COMPUTER SCIENCE AND ENGINEERING

By

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SUBJECT

INT220 - SERVER SIDE SCRIPTING

School of Computer Science and Engineering

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November 2023

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INTRODUCTION

In the fast-paced world of today, mobility is a key factor in meeting the demands of a dynamic lifestyle. The advent of technology has transformed the way we approach transportation, and one of the manifestations of this transformation is the rise of online car rental services. These services offer a convenient and flexible solution for individuals seeking temporary access to vehicles without the burden of ownership. Developed with an emphasis on accessibility, the Heritage Hotel Booking System boasts an interface designed for simplicity and ease of use. Its user-friendly design ensures that individuals, irrespective of their technological acumen, can effortlessly navigate the application. Leveraging HTML as the foundational interface language and PHP for server-side scripting, the system interacts harmoniously with the Apache server, resulting in a dynamic platform accessible through standard web browsers.

This report delves into the creation and implementation of an Online Car Rental Application using PHP and MySQL—a robust and widely-used combination for web development. The application provides users with a seamless platform to browse, select, and book rental cars, offering a user-friendly interface and efficient data management.

Data security and integrity are paramount considerations in the system's architecture. The incorporation of a MySQL database serves as the backbone, enhancing the reliability and confidentiality of stored user information. This meticulous approach not only safeguards sensitive data but also contributes to the overall robustness and trustworthiness of the application.
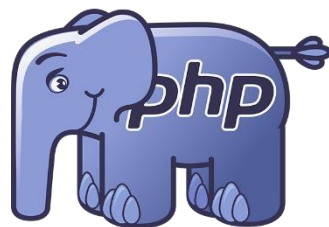
The primary objective of this project is to design and develop an intuitive and secure online car rental system that caters to the diverse needs of users. Utilizing PHP for server-side scripting and MySQL for database management, the application aims to

streamline the car rental process, making it accessible and user-friendly. processes, the system guides users through each step. Upon completion, users are promptly furnished with a confirmation email, providing a detailed summary of their reservation and enhancing the overall user experience.

TECHNOLOGIES USED

The Online Car Rental is underpinned by a sophisticated technological framework that seamlessly integrates various programming languages and tools to deliver a robust and user-centric experience. The primary technologies employed in this project include PHP, Bootstrap, MySQL WorkBench, and JavaScript, each playing a crucial role in enhancing the functionality, aesthetics, and overall performance of the web-based application.

1. PHP (Hypertext Preprocessor):

At the core of the Heritage Hotel Booking System is PHP, a server-side scripting language renowned for its versatility and efficiency. PHP facilitates dynamic content generation, enabling seamless interaction between the user interface and the server. Its usage in this project ensures the smooth execution of server-side operations, making real-time data processing, such as booking validations and user authentication, possible.

2. Bootstrap:

The utilization of Bootstrap, a front-end framework, significantly enhances the visual appeal and responsiveness of the Heritage Hotel Booking System. Bootstrap's pre-designed templates and responsive grid system facilitate the creation of a mobilefriendly and aesthetically pleasing user interface. This ensures a consistent and engaging experience for users across various devices, contributing to the overall accessibility of the application.

3. MySQL Workbench:

MySQL Workbench is a powerful and intuitive visual tool designed for database architects, developers, and administrators working with MySQL databases. Developed by Oracle Corporation, MySQL Workbench provides a comprehensive environment for database design, modelling, development, and administration.

4. MySQL:

MySQL is a popular open-source relational database management system, widely recognized for its reliability and performance. In the Online Voting System, MySQL is used as the database backend to store and manage critical data such as voter information, candidate details, election parameters, and voting results. Key aspects of MySQL's contribution include:

Data Storage: MySQL efficiently stores and organizes all the essential data related to Locations, Hotels, Rooms, Booking, Contacts and Users along with Users Type in structured tables.

Data Retrieval: It provides powerful SQL querying capabilities, enabling the system to retrieve and present data to users as needed.

Data Integrity: MySQL ensures data integrity and security, enforcing constraints and permissions to prevent unauthorized access or data corruption.

Scalability: MySQL's scalability supports the growth of the voting system, making it capable of handling elections of varying sizes.

5. JavaScript:

JavaScript, a versatile scripting language, is employed to enhance the interactivity and responsiveness of the Heritage Hotel Booking System. Leveraging JavaScript allows for dynamic content updates without requiring a page refresh, contributing to a more seamless and engaging user experience. Additionally, it facilitates client-side form validation, ensuring data accuracy and enhancing the overall reliability of user inputs.

6. XAMPP:

XAMPP, an acronym for cross-platform, Apache, MySQL, PHP, and Perl, is an open-source web server solution that simplifies the process of setting up a local development environment. Its role in the development of the Online Voting System includes:

Local Development: XAMPP provides an all-in-one package that includes the Apache web server, MySQL database, PHP, and other necessary components, allowing developers to set up and test the system on their local machines.

Debugging and Testing: XAMPP aids in debugging and testing the voting system, ensuring that it functions correctly before deployment to a production server.

Portability: The system can be easily transferred to a production server from the local XAMPP environment when it's ready for live use.

MODULES

1. User Authentication:

The project initiation involves a robust user authentication system, a cornerstone for securing access to the Online Car Rental home page exclusively for logged-in users. Unauthorized visitors are seamlessly rerouted to the login page, thereby fortifying the security infrastructure and enriching the overall user experience.

Beyond the conventional login mechanism, the system employs advanced security measures during the user signup process. When a user creates an account, the system stores the password in a hashed format, enhancing the security of sensitive user information. This hashed password serves as a resilient shield, rendering the actual password indecipherable even in the event of unauthorized access to the database.

During the login process, the system ensures the utmost security by converting the provided login password string into a hash. This hashed password is then compared with the stored hashed password in the database, ensuring a secure and robust authentication process. This dual-layered approach not only safeguards user accounts from potential breaches but also underscores the project's commitment to adopting contemporary security practices.

The user authentication system, fortified by secure storage and verification of passwords, establishes a solid foundation for user interactions within the Online Car Rental. It reflects a commitment to prioritizing user data privacy and security, ensuring that every aspect of the user journey aligns with the highest standards of digital security.

2. Car Discovery and Filtering:

Once logged in, users are presented with an extensive array of Cars, enriched with diverse filter options. The filtering mechanism empowers users to tailor their search based on preferences, creating a personalized car exploration journey.

3. Car Details and Features:

Upon selecting a car, users are ushered into a detailed view of the establishment. The system provides comprehensive information about the car, including available seats and accessories. This immersive experience aids users in making informed decisions about their preferences.

4. Booking Summary and Guest Information:

The user journey extends to a booking summary page, where intricate details about the chosen brand and car. Users are seamlessly guided to input information, completing the reservation process with ease and efficiency.
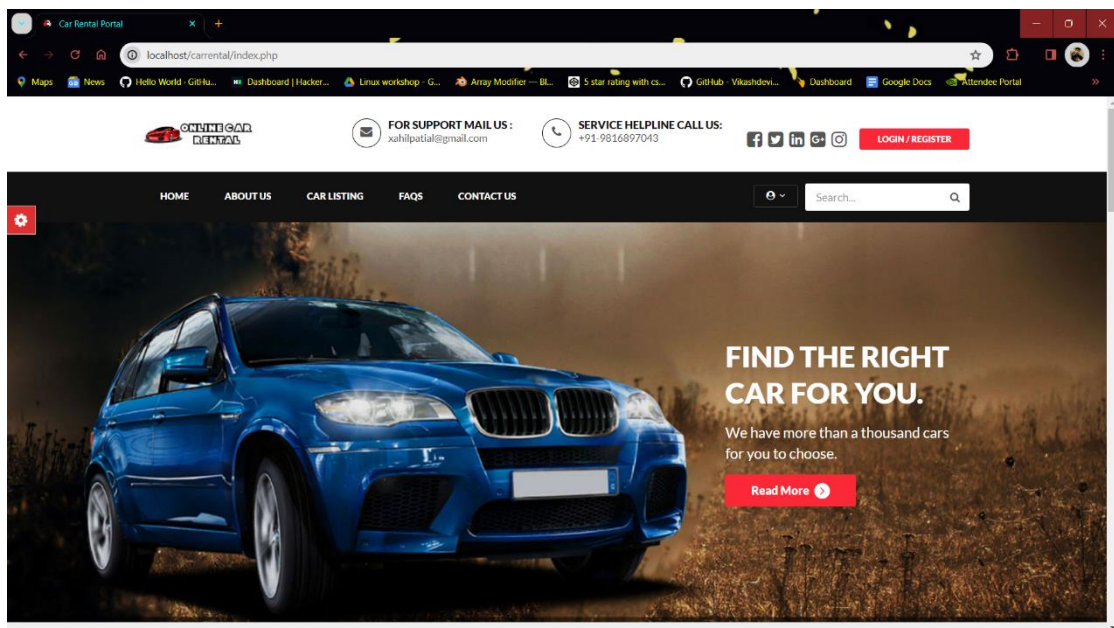
5. Date Filtering for Booking:

Adding a layer of flexibility, the application allows users to enter rent-in and rentout dates via a user-friendly filter. This feature enables users to align their reservations with their travel itinerary, adding a valuable dimension to the booking experience.
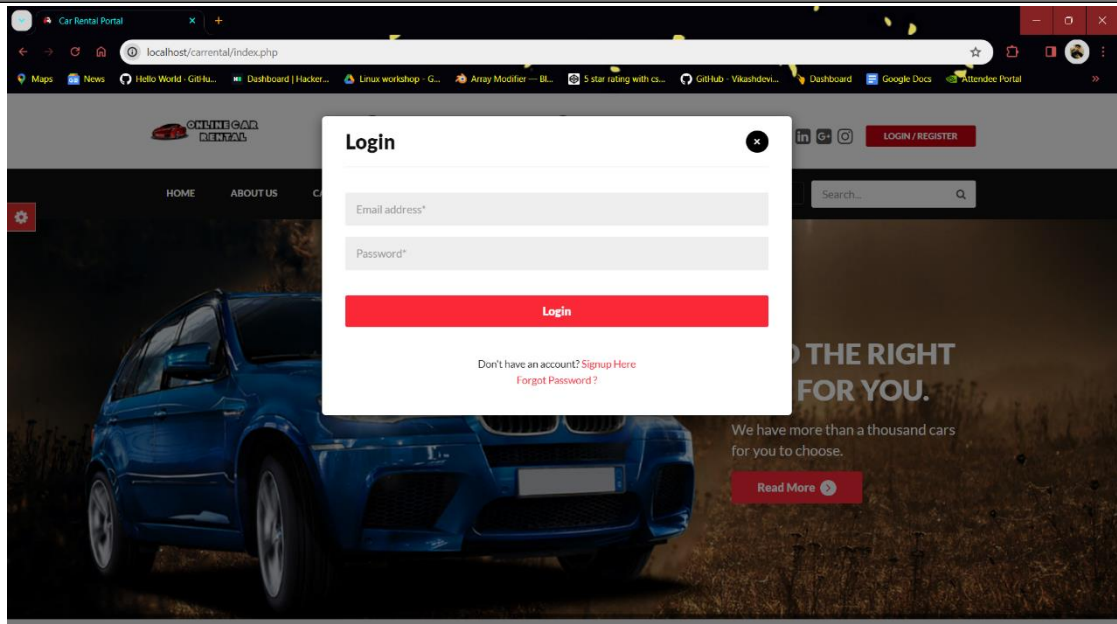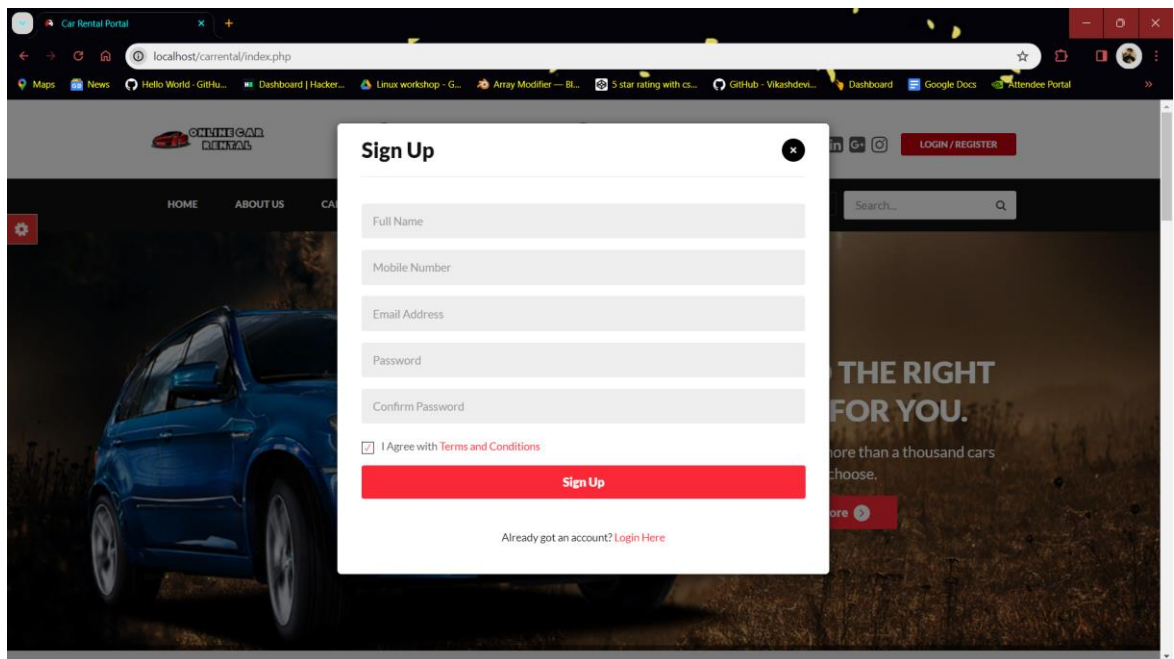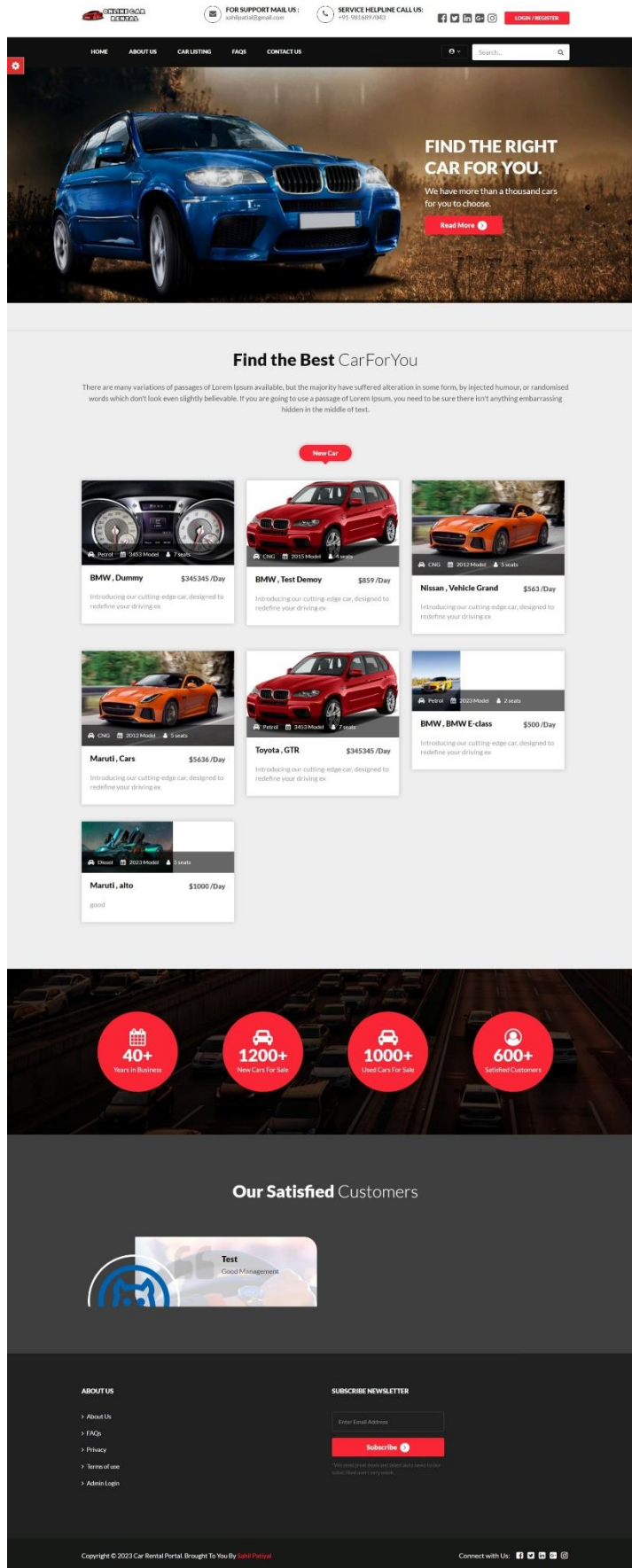
6. Admin Panel Operations:

The administrative facet of the project introduces a powerful Admin Panel, providing administrators with the capability to perform CRUD (Create, Read, Update, Delete) operations on key modules. From managing brands and cars to overseeing booked cars and un booked cars, administrators wield a comprehensive suite of tools to maintain and optimize the system.
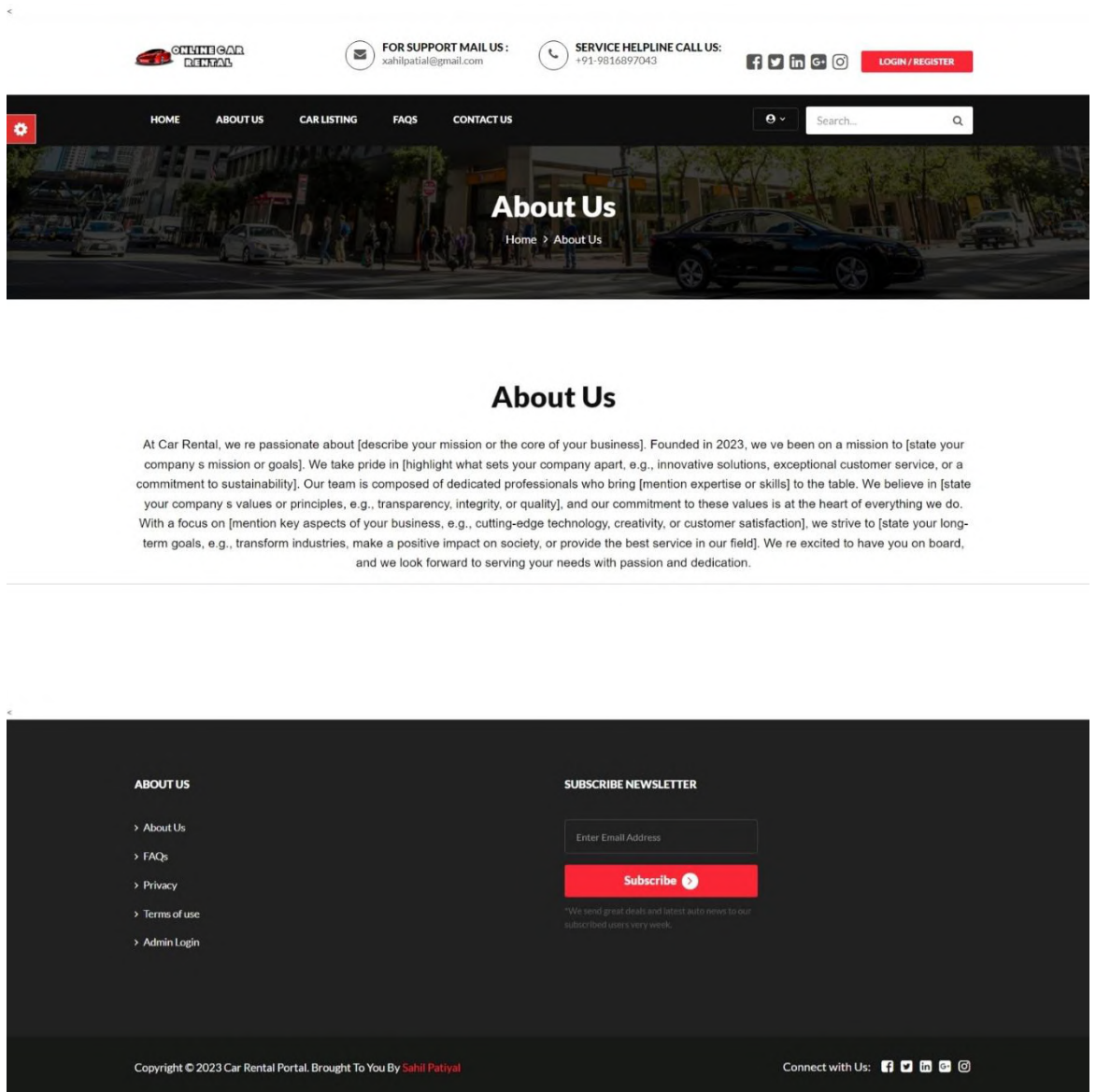
In conclusion, the Online Car Rental Web App transcends the conventional boundaries of reservation platforms. It not only simplifies the booking process for users but also empowers administrators with robust tools for system management. This project is a testament to the seamless integration of technology and hospitality, offering a glimpse into the future of digital car rental reservations.
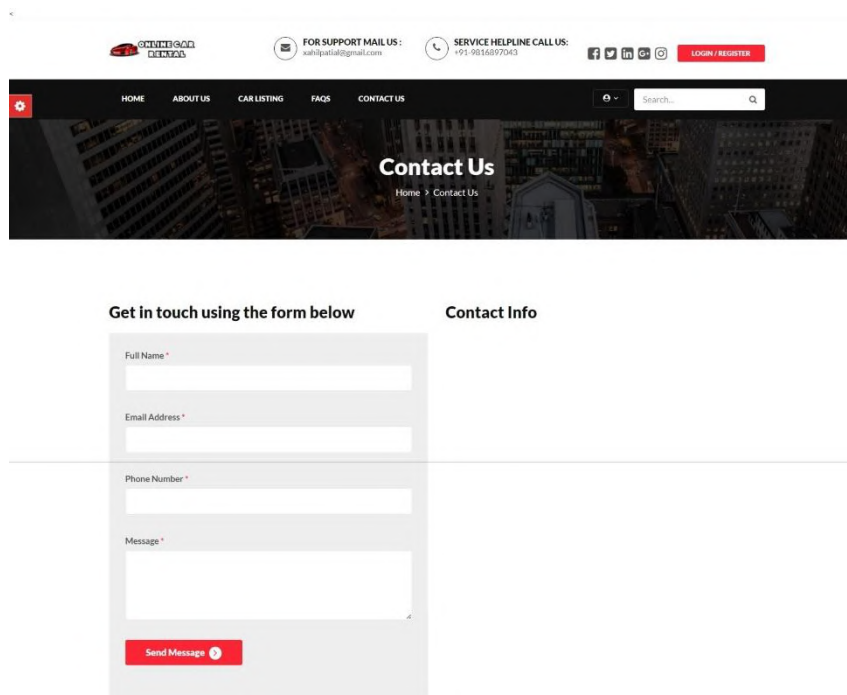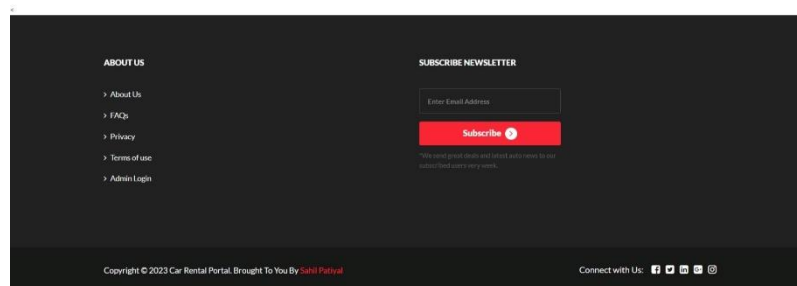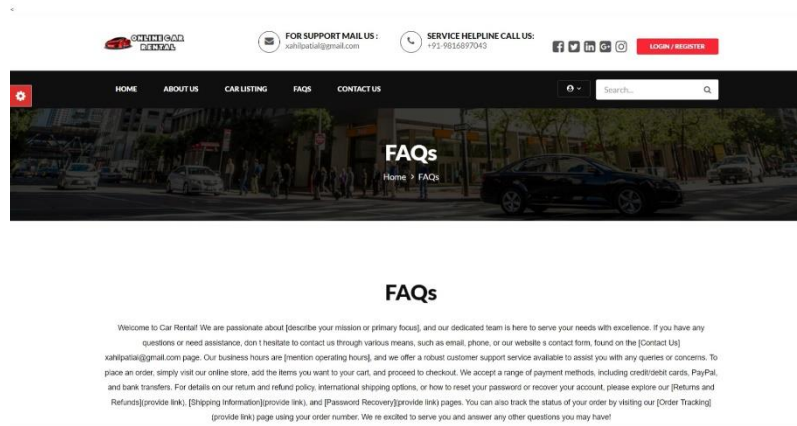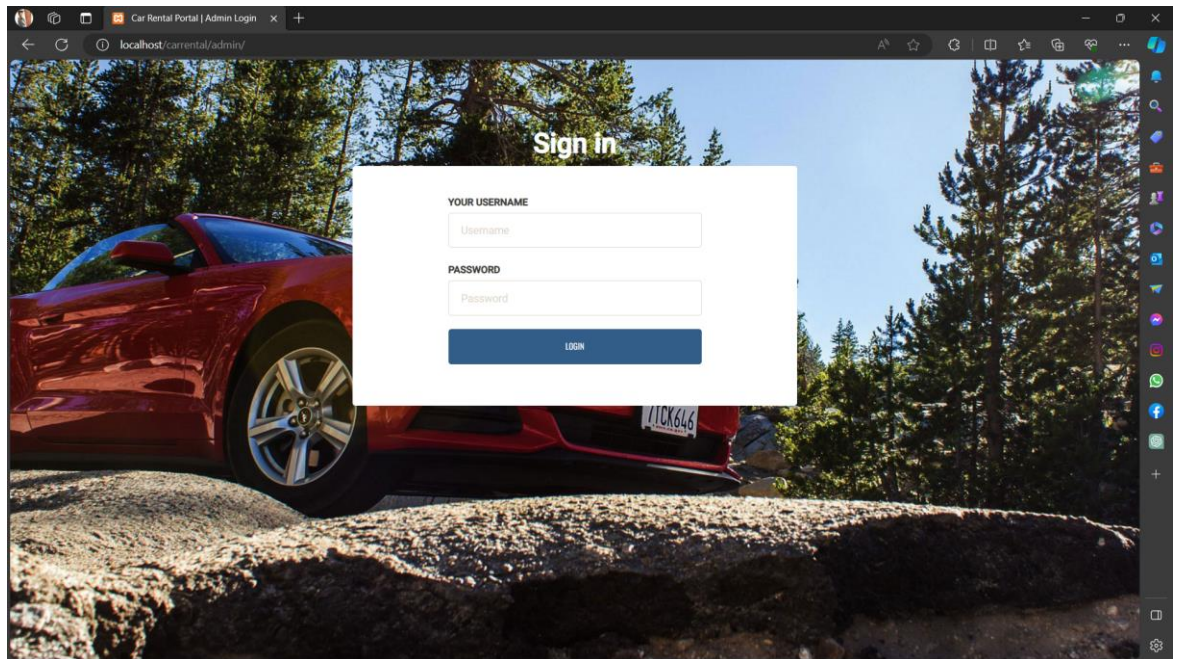
SNAPSHOTS

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FIND THE RIGHT CAR FOR YOU.

We have more than a thousand cars for you to choose.

Read More

Find the Best CarForYou

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text.

New Car

BMW , Dummy $345345 /Day
Petrol 3453 Model 7 seats
Introducing our cutting-edge car, designed to redefine your driving ex

BMW , Test Demoy $859 /Day
CNG 2015 Model 4 seats
Introducing our cutting-edge car, designed to redefine your driving ex

Nissan , Vehicle Grand $563 /Day
CNG 2012 Model 5 seats
Introducing our cutting-edge car, designed to redefine your driving ex

Maruti , Cars $5636 /Day
CNG 2012 Model 5 seats
Introducing our cutting-edge car, designed to redefine your driving ex

Toyota , GTR $345345 /Day
Petrol 3453 Model 7 seats
Introducing our cutting-edge car, designed to redefine your driving ex

BMW , BMW E-class $500 /Day
Petrol 2023 Model 2 seats
Introducing our cutting-edge car, designed to redefine your driving ex

Maruti , alto $1000 /Day
Diesel 2023 Model 5 seats
good

40+
Years In Business

1200+
New Cars For Sale

1000+
Used Cars For Sale

600+
Satisfied Customers

Our Satisfied Customers

Test
Good Management

ONLINE CAR RENTAL

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About Us

At Car Rental, we re passionate about [describe your mission or the core of your business]. Founded in 2023, we ve been on a mission to [state your company s mission or goals]. We take pride in [highlight what sets your company apart, e.g., innovative solutions, exceptional customer service, or a commitment to sustainability]. Our team is composed of dedicated professionals who bring [mention expertise or skills] to the table. We believe in [state your company s values or principles, e.g., transparency, integrity, or quality], and our commitment to these values is at the heart of everything we do. With a focus on [mention key aspects of your business, e.g., cutting-edge technology, creativity, or customer satisfaction], we strive to [state your long-term goals, e.g., transform industries, make a positive impact on society, or provide the best service in our field]. We re excited to have you on board, and we look forward to serving your needs with passion and dedication.

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FAQs

Welcome to Car Rental! We are passionate about [describe your mission or primary focus], and our dedicated team is here to serve your needs with excellence. If you have any questions or need assistance, don t hesitate to contact us through various means, such as email, phone, or our website s contact form, found on the [Contact Us] xahilpatial@gmail.com page. Our business hours are [mention operating hours], and we offer a robust customer support service available to assist you with any queries or concerns. To place an order, simply visit our online store, add the items you want to your cart, and proceed to checkout. We accept a range of payment methods, including credit/debit cards, PayPal, and bank transfers. For details on our return and refund policy, international shipping options, or how to reset your password or recover your account, please explore our [Returns and Refunds](provide link), [Shipping Information](provide link), and [Password Recovery](provide link) pages. You can also track the status of your order by visiting our [Order Tracking] (provide link) page using your order number. We re excited to serve you and answer any other questions you may have!

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Full Name *

Email Address *

Phone Number *

Message *

Send Message

Contact Info

Admin Login

Manage Bookings

BOOKINGS INFO

Show 10 entries   Search: _____

#	Name	Vehicle	From Date	To Date	Message	Status	Posting date	Action
1	Test	BMW , Test Demoy	6/11/2023	25/11/2023	Ride	Confirmed	2023-11-07 01:45:43	Confirm / Cancel
2	Test	Nissan , Vehicle Grand	6/11/2023	20/11/2023	Riding Hills	Cancelled	2023-11-07 01:45:43	Confirm / Cancel
3	Test	BMW , Test Demoy	07/11/2023	20/11/2023	Fun Drive	Not Confirmed yet	2023-11-08 04:24:29	Confirm / Cancel
4	Sahil Patiyal	BMW , Dummy	07/11/2023	20/11/2023	Climb	Not Confirmed yet	2023-11-08 04:43:21	Confirm / Cancel
5	Sahil	BMW , Test Demoy	07/11/2023	20/11/2023	Ride	Not Confirmed yet	2023-11-08 08:12:15	Confirm / Cancel
6	Sahil	Nissan , Vehicle Grand	07/11/2023	20/11/2023	Ride	Not Confirmed yet	2023-11-08 08:12:41	Confirm / Cancel
#	Name	Vehicle	From Date	To Date	Message	Status	Posting date	Action

Showing 1 to 6 of 6 entries   PREVIOUS 1 NEXT

Manage Testimonials

USER TESTIMONIALS

Show 10 entries   Search: _____

#	Name	Email	Testimonials	Posting date	Action
1	Test	test@gmail.com	Amazing Services	2023-11-08 04:26:39	Inactive
2	Test	test@gmail.com	Good Management	2023-11-07 13:16:05	Active
3	Test	test@gmail.com	Test Test	2023-11-06 13:14:31	Inactive
4	Sahil	abhi@gmail.com	Issues	2023-11-08 08:13:26	Inactive
#	Name	Email	Testimonials	Posting date	Action

Showing 1 to 4 of 4 entries   PREVIOUS 1 NEXT
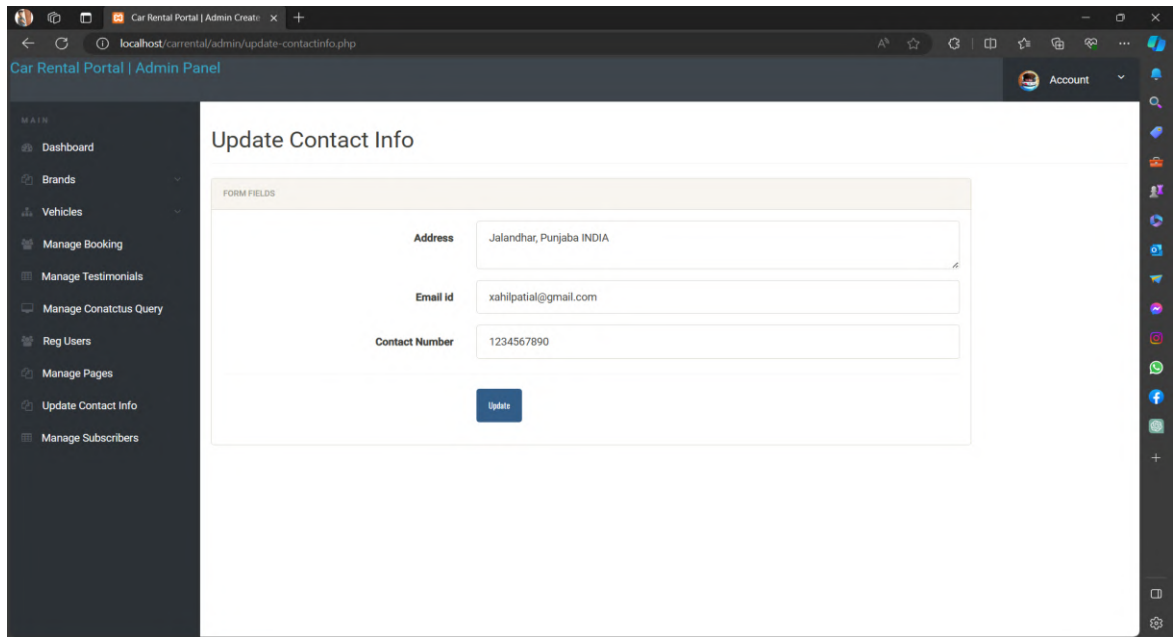
DATABASE

In my project, I have employed MySQL Workbench as the database management system, which offers a robust foundation for storing and managing critical data through ten distinct tables: admin, tblbooking, tblbrands, tblcontactusinfo, tblcontactusquery, tblpages, tblsubscribers, tbltestimonials, tblusers,tblvehicles. Each table plays a specific role in the functionality of my project:
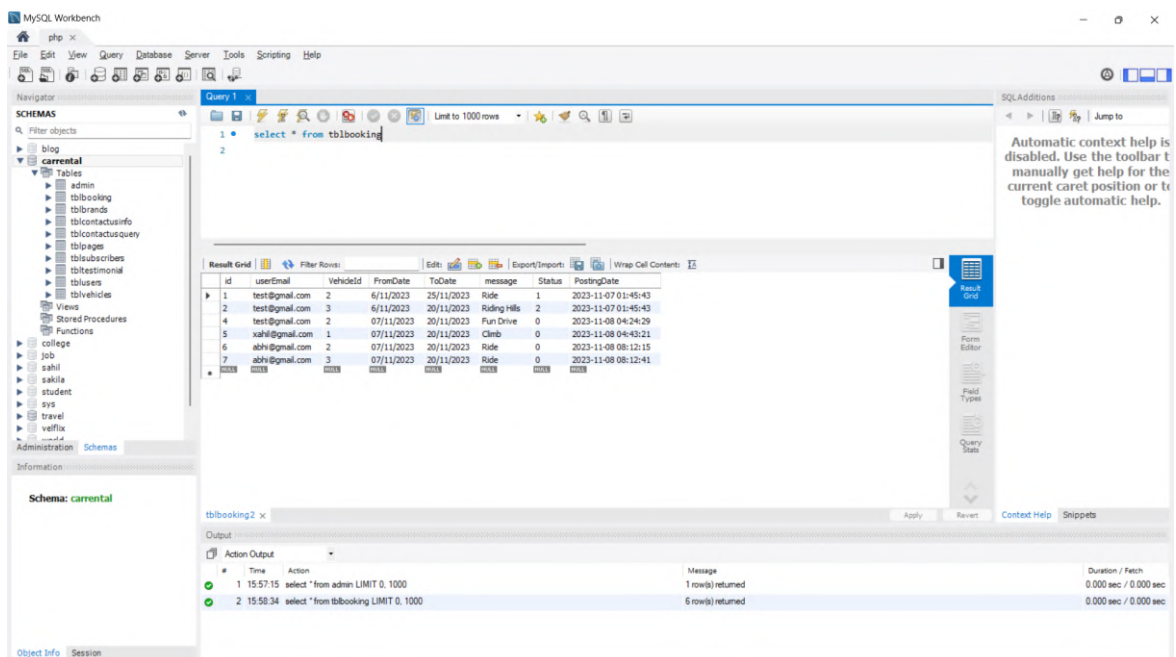
admin:

This table is responsible for storing detailed information about admin. It typically includes information about admin.
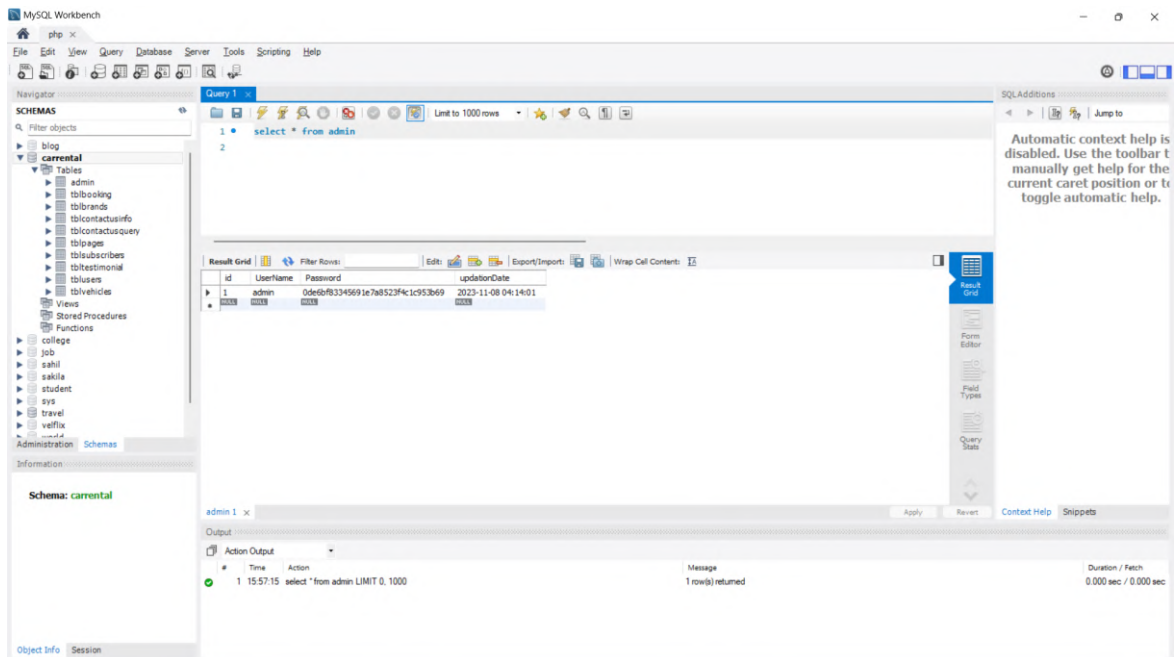
tblbooking:

This table is responsible for storing records of booked cars by users. It typically includes fields such as vehicleID, FromDate, ToDate, message.

tblbrands:

This table is responsible for maintaining records of cars along with their brands they belong to, entered by admin. It typically includes fields such as BrandName, CreationDate, UpdationDate.
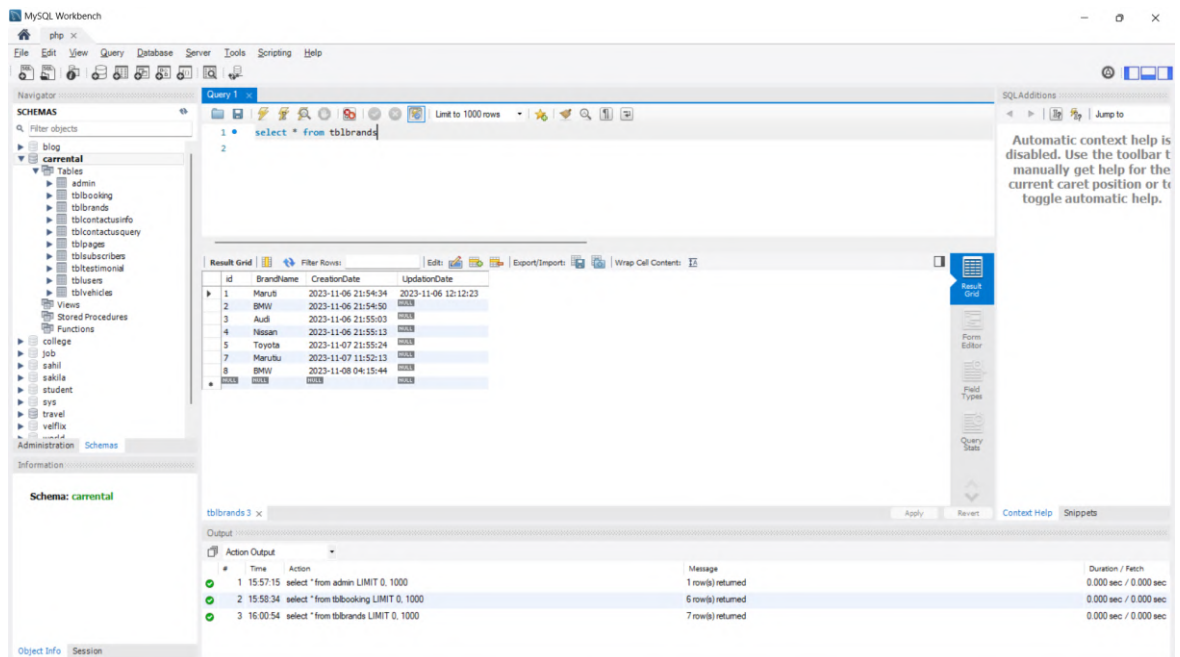
tblcontactusinfo:

This table is responsible for maintaining records of users that have contacted admin for some queries.
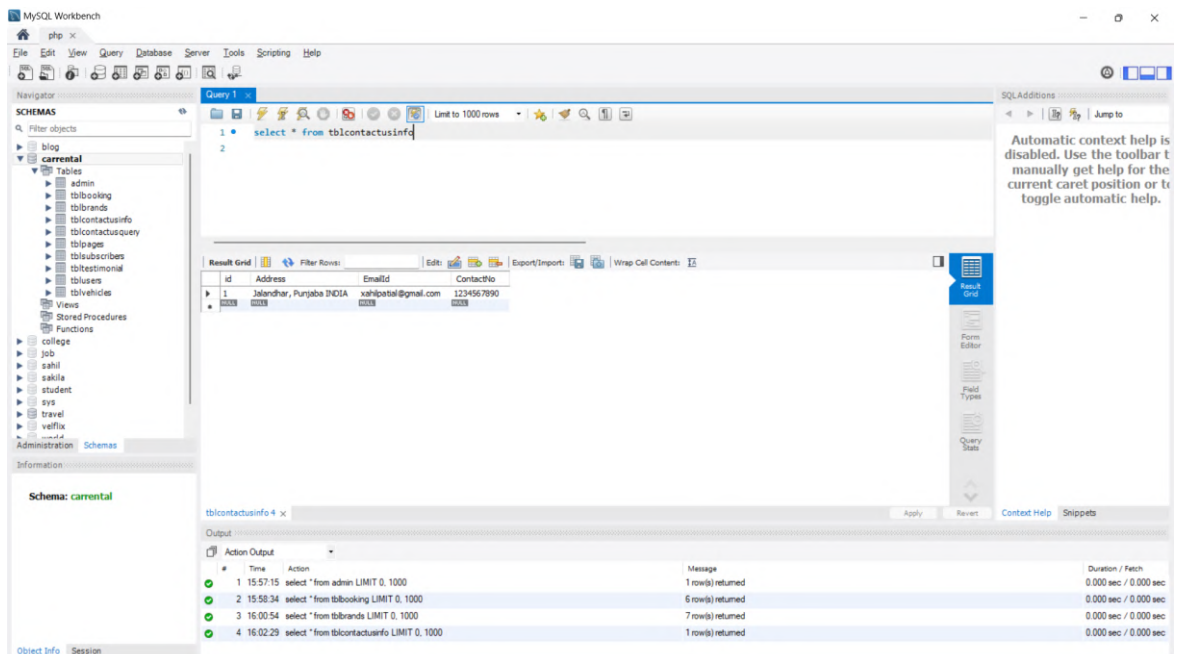
tblpages:

this table stores data of different pages in my website such as Terms And condition page, Privacy and policy , About Us and FAQs.
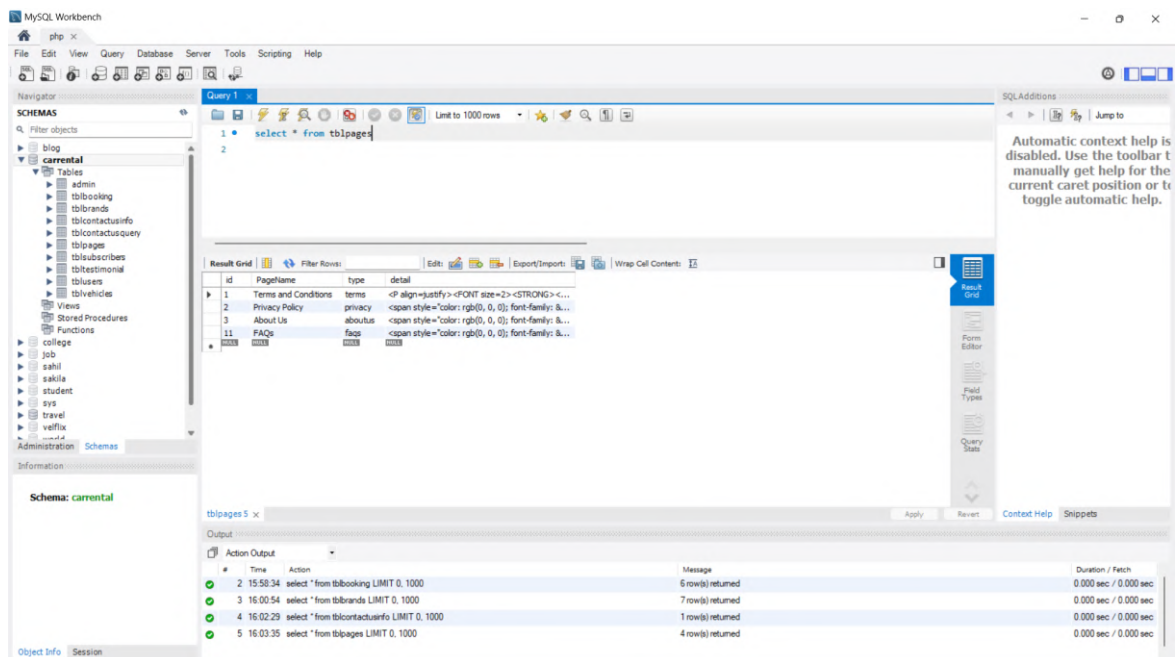
Tblsubscriberes:

This table is responsible for maintaining records of users that have subscribed our website.
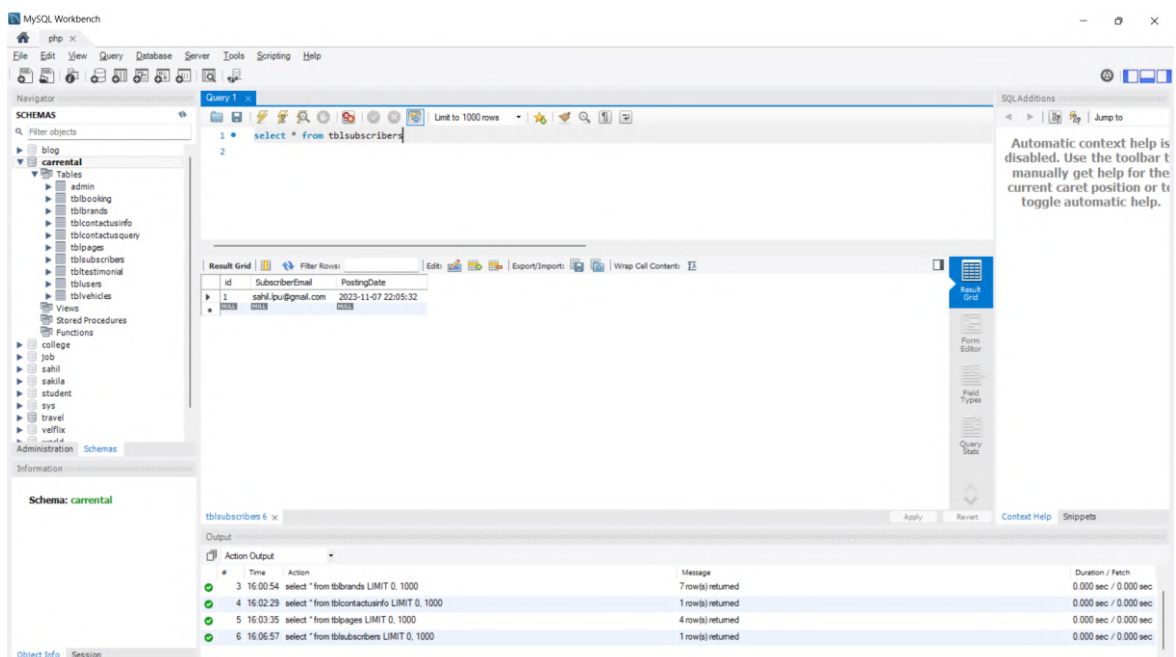
Tbltestimonial:

This table is responsible for maintaining records of users that have provided their feedback.
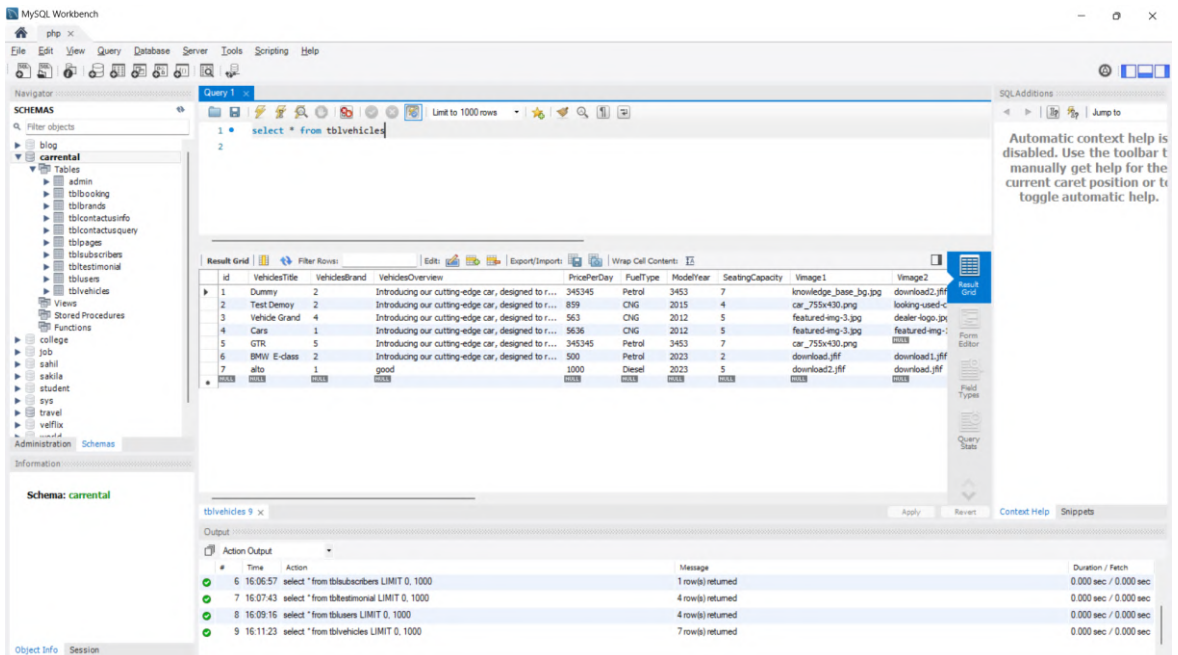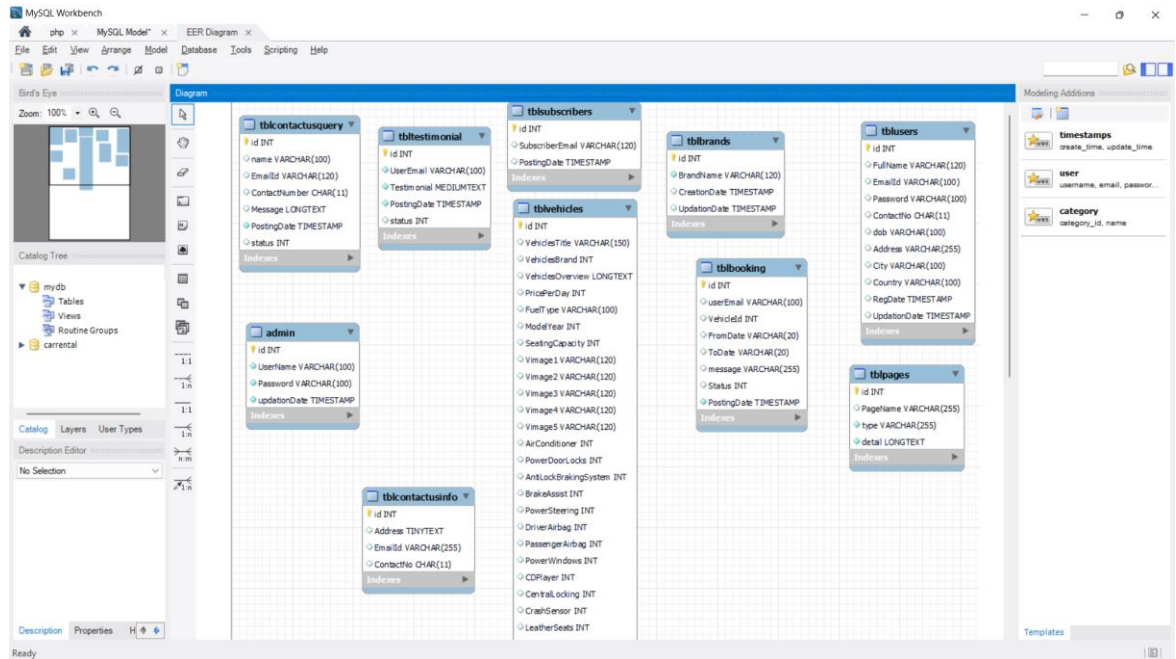

Tblusers:

This table is responsible for maintaining records of users credentials such as id and passwords but users password is in hash form to provide security .
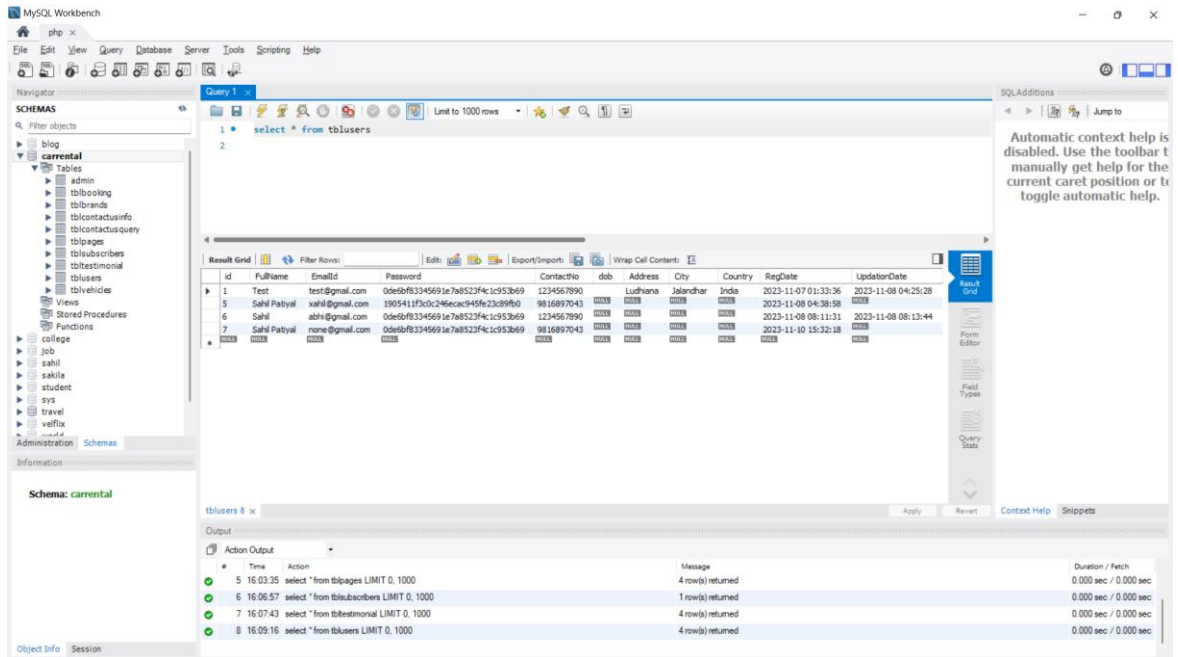
Tblvehicles:

This table is responsible for maintaining records of vehicles such as how many vehicles are there and its name , features , accessories.

PROJECT LINK

https://github.com/xOXAHIL/php

BIBLIOGRAPHY

1. PHP Documentation:

- Author: The PHP Group

- URL: https://www.php.net/manual/en/

2. MySQL Documentation:

- Author: Oracle Corporation

- URL: https://dev.mysql.com/doc/

3. Bootstrap Documentation:

- Author: The Bootstrap Authors

- URL: https://getbootstrap.com/docs/4.0/
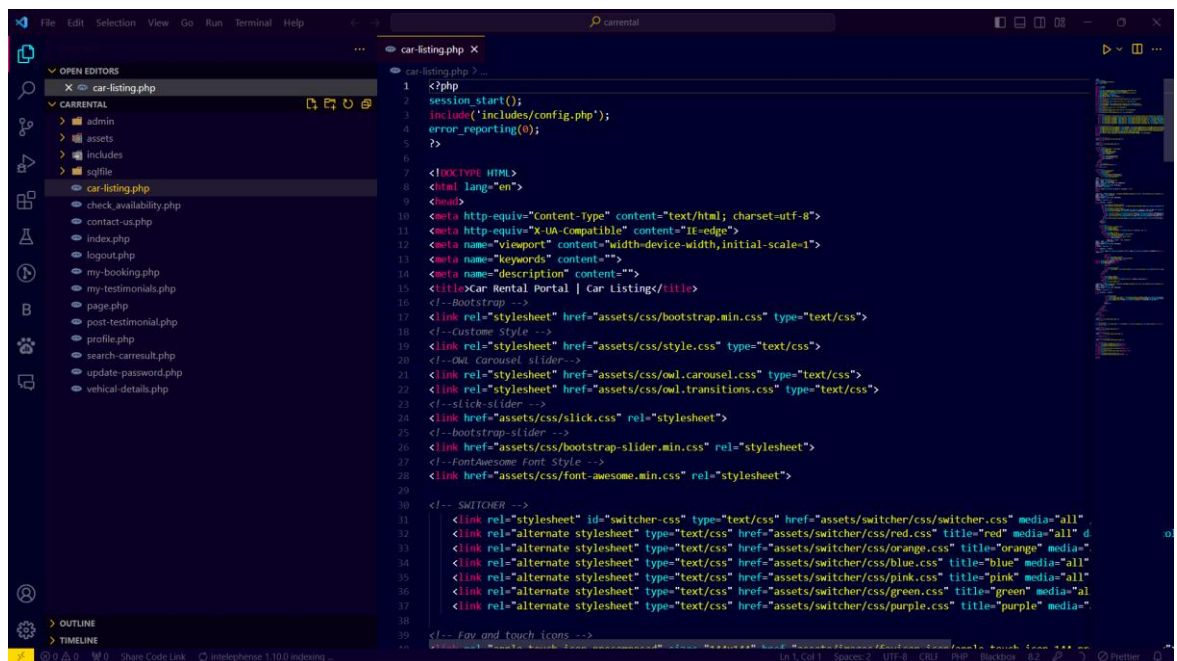
4. JavaScript Documentation:

- Author: Mozilla Developer Network (MDN)

- URL: https://developer.mozilla.org/en-US/docs/Web/JavaScript

5. PhpMyAdmin Documentation:

- Author: PhpMyAdmin team

- URL: https://docs.phpmyadmin.net/

<u>Coding Part :</u>

```php
<?php
require_once("includes/config.php");
// code user email availability
if(!empty($_POST["emailid"])) {
    $email= $_POST["emailid"];
    if (filter_var($email, FILTER_VALIDATE_EMAIL)==false) {

        echo "error : You did not enter a valid email.";
    }
    else {
        $sql ="SELECT EmailId FROM tbluser WHERE EmailId=:email";
$query= $dbh -> prepare($sql);
$query-> bindParam(':email', $email, PDO::PARAM_STR);
$query -> execute();
$results = $query -> fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query -> rowCount() > 0)
{
echo "<span style='color:red'> Email already exists .</span>";
 echo "<script>$('#submit').prop('disabled',true);</script>";
} else{

    echo "<span style='color:green'> Email available for Registration .</span>";
echo "<script>$('#submit').prop('disabled',false);</script>";
}
}
}
?>
```



```php
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(isset($_POST['send']))
    {
$name=$_POST['fullname'];
$email=$_POST['email'];
$contactno=$_POST['contactno'];
$message=$_POST['message'];
$sql="INSERT INTO  tblcontactusquery(name,EmailId,ContactNumber,Message) VALUES(:name,:email,:contactno,:message)";
$query = $dbh->prepare($sql);
$query->bindParam(':name',$name,PDO::PARAM_STR);
$query->bindParam(':email',$email,PDO::PARAM_STR);
$query->bindParam(':contactno',$contactno,PDO::PARAM_STR);
$query->bindParam(':message',$message,PDO::PARAM_STR);
$query->execute();
$lastInsertId = $dbh->lastInsertId();
if($lastInsertId)
{
$msg="Query Sent. We will contact you shortly";
}
else
{
$error="Something went wrong. Please try again";
}

}
?>
<!DOCTYPE HTML>
<html lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,initial-scale=1">
<meta name="keywords" content="">
<meta name="description" content="">
<title>CarForYou - Responsive Car Dealer HTML5 Template</title>
<!--Bootstrap -->
```

```php
<?php
session_start();
error_reporting(0);
include('includes/config.php');
?>

<!DOCTYPE HTML>
<html lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,initial-scale=1">
<meta name="keywords" content="">
<meta name="description" content="">
<title>Car Rental Portal | Page details</title>
<!--Bootstrap -->
<link rel="stylesheet" href="assets/css/bootstrap.min.css" type="text/css">
<!--Custome Style -->
<link rel="stylesheet" href="assets/css/style.css" type="text/css">
<!--OWL Carousel slider-->
<link rel="stylesheet" href="assets/css/owl.carousel.css" type="text/css">
<link rel="stylesheet" href="assets/css/owl.transitions.css" type="text/css">
<!--slick-slider -->
<link href="assets/css/slick.css" rel="stylesheet">
<!--bootstrap-slider -->
<link href="assets/css/bootstrap-slider.min.css" rel="stylesheet">
<!--FontAwesome Font Style -->
<link href="assets/css/font-awesome.min.css" rel="stylesheet">

<!-- SWITCHER -->
    <link rel="stylesheet" id="switcher-css" type="text/css" href="assets/switcher/css/switcher.css" media="all"
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/red.css" title="red" media="all" d
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/orange.css" title="orange" media=".
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/blue.css" title="blue" media="all"
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/pink.css" title="pink" media="all"
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/green.css" title="green" media="al
    <link rel="alternate stylesheet" type="text/css" href="assets/switcher/css/purple.css" title="purple" media=".

<!-- Fav and touch icons -->
```
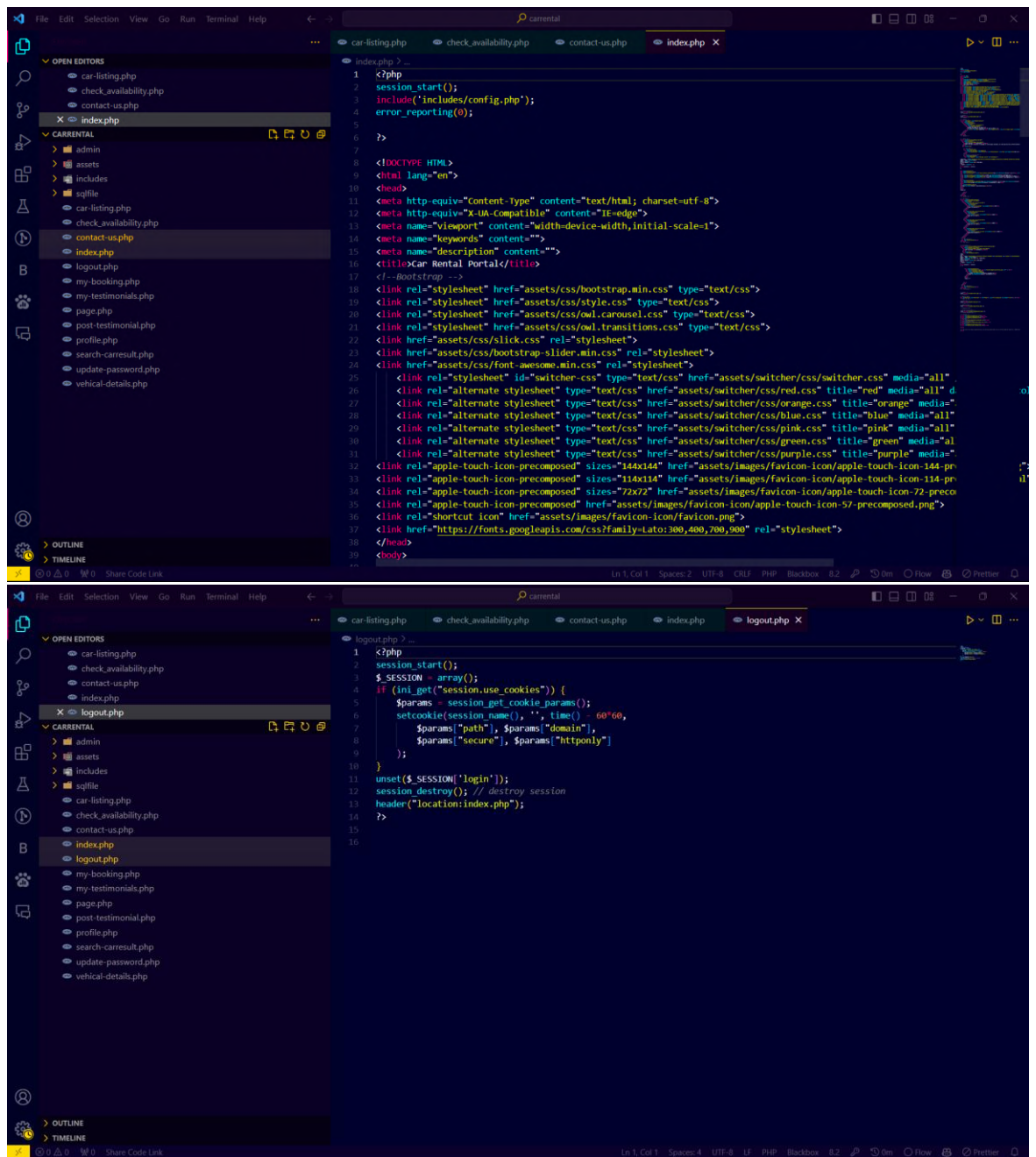


```php
<?php
session_start();
include('includes/config.php');
error_reporting(0);
if(isset($_POST['submit']))
{
$fromdate=$_POST['fromdate'];
$todate=$_POST['todate'];
$message=$_POST['message'];
$useremail=$_SESSION['login'];
$status=0;
$vhid=$_GET['vhid'];
$sql="INSERT INTO  tblbooking(userEmail,VehicleId,FromDate,ToDate,message,Status) VALUES(:useremail,:vhid,:fromda
$query = $dbh->prepare($sql);
$query->bindParam(':useremail',$useremail,PDO::PARAM_STR);
$query->bindParam(':vhid',$vhid,PDO::PARAM_STR);
$query->bindParam(':fromdate',$fromdate,PDO::PARAM_STR);
$query->bindParam(':todate',$todate,PDO::PARAM_STR);
$query->bindParam(':message',$message,PDO::PARAM_STR);
$query->bindParam(':status',$status,PDO::PARAM_STR);
$query->execute();
$lastInsertId = $dbh->lastInsertId();
if($lastInsertId)
{
echo "<script>alert('Booking successfull.');</script>";
}
else
{
echo "<script>alert('Something went wrong. Please try again');</script>";
}

}

?>



<!DOCTYPE HTML>
<html lang="en">
<head>
```

CHAPTERS COVERED:

CH – 1:

PHP, MYSQL, XAMPP, PHP Arrays, PHP Constants, PHP Expressions, PHP Operators, PHP Control Structures, PHP Loops.

CH – 2:

PHP Arrays and Functions: PHP Enumerated Arrays, PHP Associative Arrays, PHP Multi-Dimensional Arrays, PHP Functions, Syntax, Arguments and Variables, References, Pass by Value & Pass by references, Return Values, Variable Scope, PHP include() and PHP require()

CH-3:

PHP Forms : PHP Form handling, PHP GET and POST, PHP Form Validation, PHP Form Sanitization

CH – 4:

PHP String Handling, PHP Login Session, Strings and Patterns, Matching, PHP Sending Emails, PHP File Uploading, PHP Filters, PHP Error Handling.

CH-5:

Object Oriented Programming in PHP : Defining PHP Classes, Creating Objects in PHP, Calling Member Functions, Constructor Functions, Inheritance, Function Overriding, Interface, Abstract Classes

CH-6:

Basic MySQL and SQL Queries : Database Basics, Indexes, PHP MyAdmin, Connect & Pconnect, MySQL Create, MySQL Insert, MySQL Select, MySQL Update, MySQL Delete, MySQL Truncate, MySQL Drop, WHERE condition, Order By and Group By, Having, LIKE, AND OR operators, SQL functions AVG, COUNT, SUM, MIN, MAX, LCASE, UCASE