

AUTOMOBILE SHOWROOM MANAGEMENT
SYSTEM
A MINI-PROJECT REPORT

Submitted by

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in partial fulfillment of the award of the degree
of

BACHELOR OF TECHNOLOGY
IN

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

RAJALAKSHMI ENGINEERING COLLEGE (Autonomous)
THANDALAM
CHENNAI-602105

2024 - 2025

BONAFIDE CERTIFICATE

Certified that this project AUTOMOBILE SHOWROOM MANAGEMENT SYSTEM is the bonafide work of "A.ASHWADH .who carried out the project work under my supervision " .231501022

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This mini project report is submitted for the viva voce examination to be held on

INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

The automobile showroom management system is a software solution that aims to streamline the operations of automobile showrooms providing an efficient and user-friendly way to manage various aspects of the business. This system helps to automate the showroom's operations, including inventory management, sales, customer management, and service management

The system provides a centralized database that stores all relevant data and enables authorized users to access it easily. The system also offers a range of features, including real-time reporting, data analysis and automated alerts, enabling dealerships to make data-driven decisions and enhance their operational efficiency. With the automobile showroom management system, dealerships can optimize their resources and provide better customer experiences, ultimately leading to increased revenue and profitability

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The automobile showroom management system project aims to develop a comprehensive software solution to streamline the operations of automobile showrooms. The system will provide a range of functionalities to manage inventory, sales service, finance, and customer relations. The project will involve a team of developers, designers, and testers who will work together to design, develop, and deploy the system.

1.2 SCOPE OF THE WORK

The scope of an automobile showroom management system is to streamline the operations of the showroom, improve customer experience, and increase sales and revenue.

1.3 PROBLEM STATEMENT

An automobile showroom management system is needed to efficiently manage the operations of a car dealership. The system should be able to handle the inventory management of vehicles, customer management, sales management, and after-sales service management. The current manual system is time-consuming and error-prone, leading to delays and customer dissatisfaction. The new system should automate most of the processes, provide real-time updates, reduce errors, and increase overall efficiency. Additionally, the system should be user-friendly, secure, and customizable to the dealership's needs. The main objective of the system is to streamline the operations of the dealership and improve the customer experience.

1.4 AIM AND OBJECTIVES OF THE PROJECT

The aim of the automobile showroom management system is to provide a comprehensive software solution that will improve the efficiency and effectiveness of the showroom's operations, enhance customer experience, and increase sales and revenue.

CHAPTER 2

SYSTEM SPECIFICATIONS

HARDWARE SPECIFICATIONS 2.1

- Processor: Dual-core processor or higher
- RAM: 4GB or higher
- Hard Disk: 500GB or higher
- Display: Minimum 1280x768 screen resolution
- Keyboard and mouse: Standard input devices
- ,Printer: Inkjet or LaserJet printer for printing invoices, receipts and .reports

SOFTWARE SPECIFICATIONS 2.2

- Web server (such as Apache or Nginx)
- PHP (latest stable version)
- MySQL (open-source relational database management system)
- IDE (integrated development environment)
- PHP web framework (such as Laravel or CodeIgniter)
- Additional PHP libraries and packages
- .Web browser for testing and interacting with the user interface

CHAPTER 3

MODULE DESCRIPTION

The Automobile Showroom Management System is an application designed to help automobile showrooms to manage their operations and provide better services to their customers. The system is built using PHP and MySQL, which are two popular programming languages used for web development and database .management respectively

:The system consists of the following modules

- :Admin Module

This module is used by the admin of the showroom to manage the entire system. It includes functions like managing user accounts, managing .inventory, generating reports, etc

- :Sales Module

This module is used by the sales team to manage the sales process. It ,includes functions like adding new customers, managing customer inquiries .booking test drives, generating invoices, etc

- :Inventory Module

This module is used to manage the inventory of the showroom. It includes ,functions like adding new vehicles to the inventory, managing vehicle details .managing vehicle prices, etc

- :Service Module

This module is used by the service team to manage the service requests of ,the customers. It includes functions like scheduling service appointments .managing service requests, generating service invoices, etc

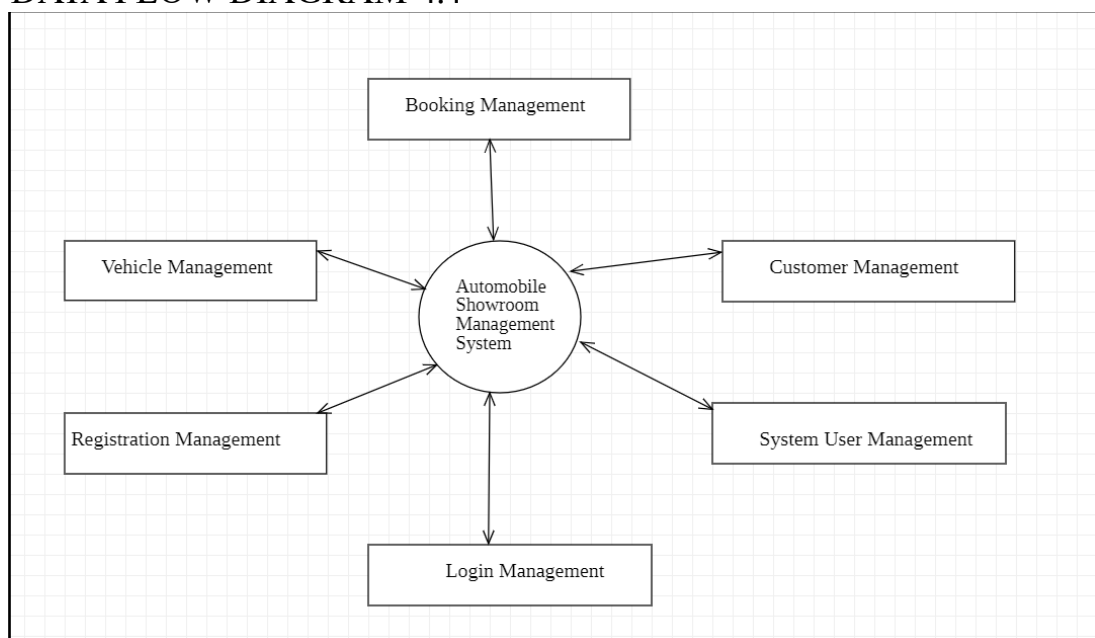
- :Reports Module

This module is used to generate various reports related to the showroom operations. It includes functions like generating sales reports, inventory .reports, service reports, etc

,The Automobile Showroom Management System is designed to be user-friendly scalable, and customizable to meet the specific needs of each showroom. It helps showrooms to manage their operations more efficiently, increase customer .satisfaction, and improve their overall business performance

CHAPTER 4 SYSTEM DESIGN

DATA FLOW DIAGRAM 4.1



This is the Zero Level DFD of Automobile Showroom Management System, where we have elaborated the high level process of Automobile Showroom. It's a basic overview of the whole Automobile Showroom Management System or process being analyzed or modeled. It's designed to be an at-a-glance view of Customer, Vehicle Insurance and Vehicle Type showing the system as a single high-level process, with it's relationship to external entities of Vehicle, Showroom and Registration. It should be easily understood by a wide audience, including Vehicle Registration and Customer. In Zero Level DFD of Automobile Showroom Management System, we have described the high level flow of the Automobile Showroom System.

CHAPTER 5

SAMPLE CODING

DATABASE: MySQL

```
phpMyAdmin SQL Dump --
version 5.1.1 --
/https://www.phpmyadmin.net --
--
Host: 127.0.0.1 --
Generation Time: Nov 30, 2021 at 10:23 AM --
Server version: 10.4.19-MariaDB --
PHP Version: 8.0.7 --

;"SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO
;START TRANSACTION
;"SET time_zone = "+00:00

;/* SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT 40101!*/
;/* SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS 40101!*/
;/* SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION 40101!*/
;/* SET NAMES utf8mb4 40101!*/

--
`Database: `used_car_showroom_db --
--

-----

--
`Table structure for table `brand_list` --
--

) `CREATE TABLE `brand_list
,id` int(30) NOT NULL`
,name` text NOT NULL`
,image_path` text NOT NULL`
,status` tinyint(1) NOT NULL DEFAULT 1`
,(date_created` datetime NOT NULL DEFAULT current_timestamp`
(date_updated` datetime DEFAULT NULL ON UPDATE current_timestamp`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (
```

```
--
`Dumping data for table `brand_list` --
--

,`INSERT INTO `brand_list` (`id`, `name`, `image_path`, `status`
`date_created`, `date_updated`) VALUES`
Toyota', 'uploads/brands/brand-1.png?v=1638242665', 1, '2021-11-' ,1)
,('11:24:25 30-11-2021' , '11:20:30 30
Mitsubishi', 'uploads/brands/brand-2.png?v=1638242650', 1, '2021-' ,2)
,('11:24:10 30-11-2021' , '11:21:34 30-11
Audi', 'uploads/brands/brand-3.png?v=1638242698', 1, '2021-11-30' ,3)
,('11:24:58 30-11-2021' , '11:24:58
Ford', 'uploads/brands/brand-6.png?v=1638243511', 1, '2021-11-30' ,6)
,('11:38:31 30-11-2021' , '11:38:31
Suzuki', 'uploads/brands/brand-7.png?v=1638243765', 1, '2021-11-' ,7)
,('11:42:45 30-11-2021' , '11:42:45 30
Honda', 'uploads/brands/brand-8.png?v=1638243787', 1, '2021-11-' ,8)
;('11:43:07 30-11-2021' , '11:43:07 30
```

```
-----
```

```
--
`Table structure for table `car_list` --
--
```

```
) `CREATE TABLE `car_list`
,`id` int(30) NOT NULL`
,`brand_id` int(30) NOT NULL`
,`category_id` int(30) NOT NULL`
,`price` float NOT NULL DEFAULT 0`
,`product_title` text NOT NULL`
,`description` text NOT NULL`
,`model` varchar(250) NOT NULL`
,`mileage` float NOT NULL DEFAULT 0`
,`year` year(4) NOT NULL`
,`fuel` varchar(250) NOT NULL`
,`engine` varchar(250) NOT NULL`
,`color` varchar(250) NOT NULL`
,`condition` text NOT NULL`
,`features` text NOT NULL`
,`status` tinyint(1) NOT NULL DEFAULT 0`
,`date_created` datetime NOT NULL DEFAULT current_timestamp`
,`date_updated` datetime DEFAULT NULL ON UPDATE current_timestamp`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (
```

```
-----
```

```
--
`Table structure for table `category_list` --
--
```

```
) `CREATE TABLE `category_list`
,`id` int(30) NOT NULL`
,`name` text NOT NULL`
```

```
,description` text NOT NULL`
,status` tinyint(1) NOT NULL DEFAULT 1`
,()date_created` datetime NOT NULL DEFAULT current_timestamp`
()date_updated` datetime DEFAULT NULL ON UPDATE current_timestamp`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (

--
`Dumping data for table `category_list` --
--

,`INSERT INTO `category_list` (`id`, `name`, `description`, `status
date_created`, `date_updated`) VALUES`
SEDAN', 'A sedan has four doors and a traditional trunk. Like' ,1)
vehicles in many categories, they\'re available in a range of sizes
,(from small', 1, '2021-11-30 10:36:50', NULL
COUPE', 'A coupe has historically been considered a two-door car' ,2)
,(with a trunk and a solid roof.', 1, '2021-11-30 10:37:24', NULL
SPORTS CAR', 'These are the sportiest, hottest, coolest-looking' ,3)
coupes and convertibles—low to the ground, sleek, and often
expensive. They generally are two-seaters, but sometimes have small
,(rear seats as well.', 1, '2021-11-30 10:37:46', NULL
STATION WAGON', 'Wagons are similar to sedans but have an' ,4)
,'.extended roofline and a hatch door at the rear instead of a trunk
,(NULL , '10:38:07 30-11-2021' ,1
PICKUP TRUCK', 'A pickup truck has a passenger cab and an open' ,5)
cargo bed in the rear. Virtually all pickups offer some form of all-
wheel drive or part-time four-wheel drive—the latter for off-road use
;(only.', 1, '2021-11-30 10:38:40', NULL

-----

--
`Table structure for table `inquiry_list` --
--

) `CREATE TABLE `inquiry_list
,id` int(30) NOT NULL`
,car_id` int(30) NOT NULL`
,fullname` text NOT NULL`
,email` varchar(250) NOT NULL`
,contact` varchar(20) NOT NULL`
,message` text NOT NULL`
,status` tinyint(1) NOT NULL DEFAULT 0`
,remarks` text DEFAULT NULL`
,()date_created` datetime NOT NULL DEFAULT current_timestamp`
()date_updated` datetime DEFAULT NULL ON UPDATE current_timestamp`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (

-----

--
`Table structure for table `system_info` --
--
```

```

) `CREATE TABLE `system_info
,id` int(30) NOT NULL`
,meta_field` text NOT NULL`
meta_value` text NOT NULL`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (

--
`Dumping data for table `system_info --
--

INSERT INTO `system_info` (`id`, `meta_field`, `meta_value`) VALUES
- name', 'Online Pre-owned/Used Car Showroom Management System' ,1)
,('PHP
,('short_name', 'Used Car Showroom - PHP' ,6)
,('logo', 'uploads/logo-1638256377.png' ,11)
,('user_avatar', 'uploads/user_avatar.jpg' ,13)
,('cover', 'uploads/cover-1638256498.png' ,14)
;('content', 'Array' ,15)

-----

--
`Table structure for table `users --
--

) `CREATE TABLE `users
,id` int(50) NOT NULL`
,firstname` varchar(250) NOT NULL`
,middlename` text DEFAULT NULL`
,lastname` varchar(250) NOT NULL`
,username` text NOT NULL`
,password` text NOT NULL`
,avatar` text DEFAULT NULL`
,last_login` datetime DEFAULT NULL`
,type` tinyint(1) NOT NULL DEFAULT 0`
=status` int(1) NOT NULL DEFAULT 1 COMMENT '0=not verified, 1`
,'verified
,()date_added` datetime NOT NULL DEFAULT current_timestamp`
()date_updated` datetime DEFAULT NULL ON UPDATE current_timestamp`
;ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 (

--
`Dumping data for table `users --
--

,`INSERT INTO `users` (`id`, `firstname`, `middlename`, `lastname
,`username`, `password`, `avatar`, `last_login`, `type`, `status`
date_added`, `date_updated`) VALUES`
,'Administrator', NULL, 'Admin', 'admin' ,1)
avatar-/0192023a7bbd73250516f069df18b500', 'uploads'
png?v=1635556826', NULL, 1, 1, '2021-01-20 14:02:37', '2021-11-27.1
,('13:39:11
,'Claire', NULL, 'Blake', 'cblake' ,2)
avatar-/4744ddea876b11dcb1d169fadf494418', 'uploads'

```

```
png?v=1638264018', NULL, 2, 1, '2021-11-30 17:20:18', '2021-11-30.2
;('17:20:18
```

```
--
```

```
Indexes for dumped tables --
```

```
--
```

```
--
```

```
`Indexes for table `brand_list --
```

```
--
```

```
`ALTER TABLE `brand_list
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
`Indexes for table `car_list --
```

```
--
```

```
`ALTER TABLE `car_list
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
`Indexes for table `category_list --
```

```
--
```

```
`ALTER TABLE `category_list
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
`Indexes for table `inquiry_list --
```

```
--
```

```
`ALTER TABLE `inquiry_list
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
`Indexes for table `system_info --
```

```
--
```

```
`ALTER TABLE `system_info
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
`Indexes for table `users --
```

```
--
```

```
`ALTER TABLE `users
;ADD PRIMARY KEY (`id`)
```

```
--
```

```
AUTO_INCREMENT for dumped tables --
```

```
--
```

```
--
```

```
`AUTO_INCREMENT for table `brand_list --
```

```
--
```

```
`ALTER TABLE `brand_list
;MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=9
```

```
--
```

```
`AUTO_INCREMENT for table `car_list --
--
`ALTER TABLE `car_list
;MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4

--
`AUTO_INCREMENT for table `category_list --
--
`ALTER TABLE `category_list
;MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6

--
`AUTO_INCREMENT for table `inquiry_list --
--
`ALTER TABLE `inquiry_list
;MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2

--
`AUTO_INCREMENT for table `system_info --
--
`ALTER TABLE `system_info
;MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=16

--
`AUTO_INCREMENT for table `users --
--
`ALTER TABLE `users
;MODIFY `id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3
;COMMIT

; /* SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT 40101!*/
; /* SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS 40101!*/
; /* SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION 40101!*/
```

:PHP

```
<h1>Welcome to <?php echo $_settings->info('name') ?></h1>
<"hr class="border-info>
<"div class="row>
<"div class="col-12 col-sm-12 col-md-6 col-lg-3>
<"div class="info-box bg-light shadow>
span class="info-box-icon bg-info elevation-1"><i>
<class="fas fa-copyright"></i></span>

<"div class="info-box-content>
<span class="info-box-text">All Brands</span>
<"span class="info-box-number text-right>
  php?>
`echo $conn->query("SELECT * FROM `brand_list
;where status = 1")->num_rows
<?
<span/>
<div/>
<-- info-box-content./ --!>
<div/>
<-- info-box./ --!>
<div/>
<"div class="col-12 col-sm-12 col-md-6 col-lg-3>
<"div class="info-box bg-light shadow>
span class="info-box-icon bg-primary elevation-1"><i>
<class="fas fa-th-list"></i></span>

<"div class="info-box-content>
<span class="info-box-text">Car Types</span>
<"span class="info-box-number text-right>
  php?>
`echo $conn->query("SELECT * FROM `category_list
;where `status` = 1")->num_rows
<?
<span/>
<div/>
<-- info-box-content./ --!>
<div/>
<-- info-box./ --!>
<div/>
<"div class="col-12 col-sm-12 col-md-6 col-lg-3>
<"div class="info-box bg-light shadow>
span class="info-box-icon bg-primary elevation-1"><i>
<class="fas fa-car"></i></span>

<"div class="info-box-content>
```

```

<span class="info-box-text">Available Cars</span>
<"span class="info-box-number text-right>
  php?>
echo $conn->query("SELECT * FROM `car_list` where
;status` = 0 ")->num_rows`
<?
<span/>
<div/>
<-- info-box-content./ --!>
<div/>
<-- info-box./ --!>
<div/>
<"div class="col-12 col-sm-12 col-md-6 col-lg-3>
<"div class="info-box bg-light shadow>
span class="info-box-icon bg-success elevation-1"><i>
<class="fas fa-car"></i></span>

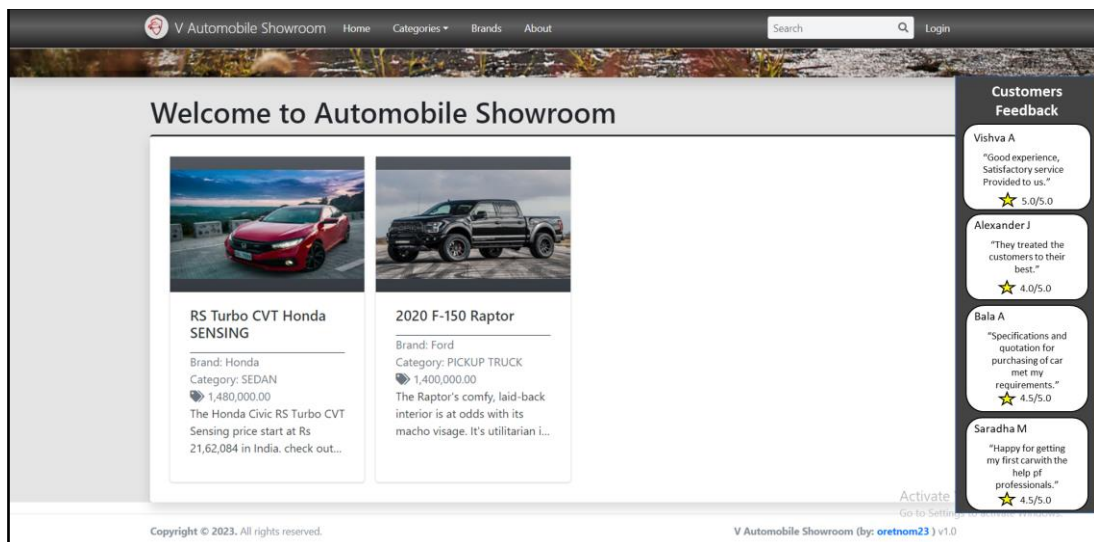
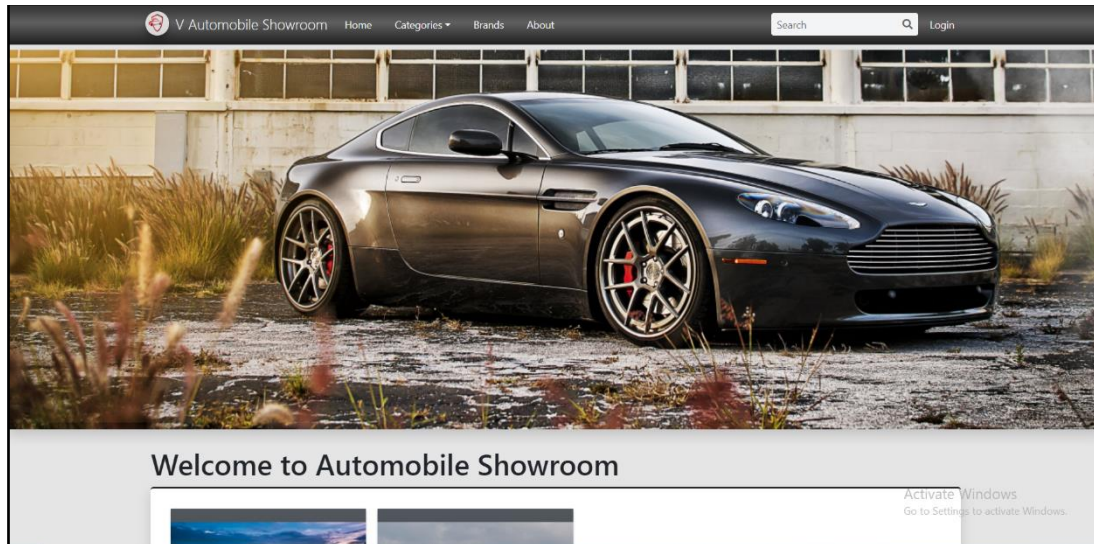
<"div class="info-box-content>
<span class="info-box-text">Sold Cars</span>
<"span class="info-box-number text-right>
  php?>
echo $conn->query("SELECT * FROM `car_list` where
;status` = 1 ")->num_rows`
<?
<span/>
<div/>
<-- info-box-content./ --!>
<div/>
<-- info-box./ --!>
<div/>
<div/>

```

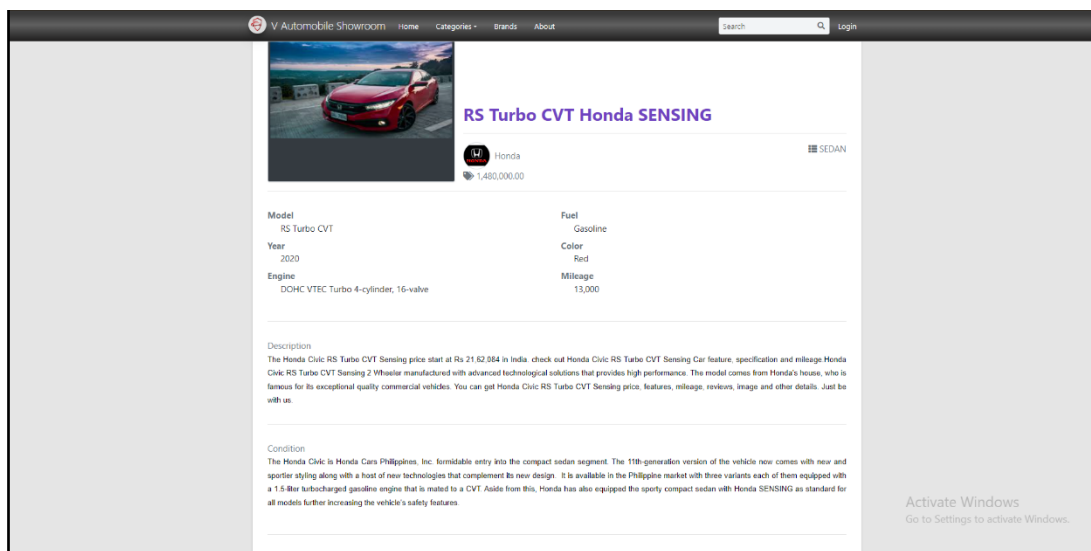

CHAPTER 6 SCREENSHOTS

CUSTOMER INTERACTIONS

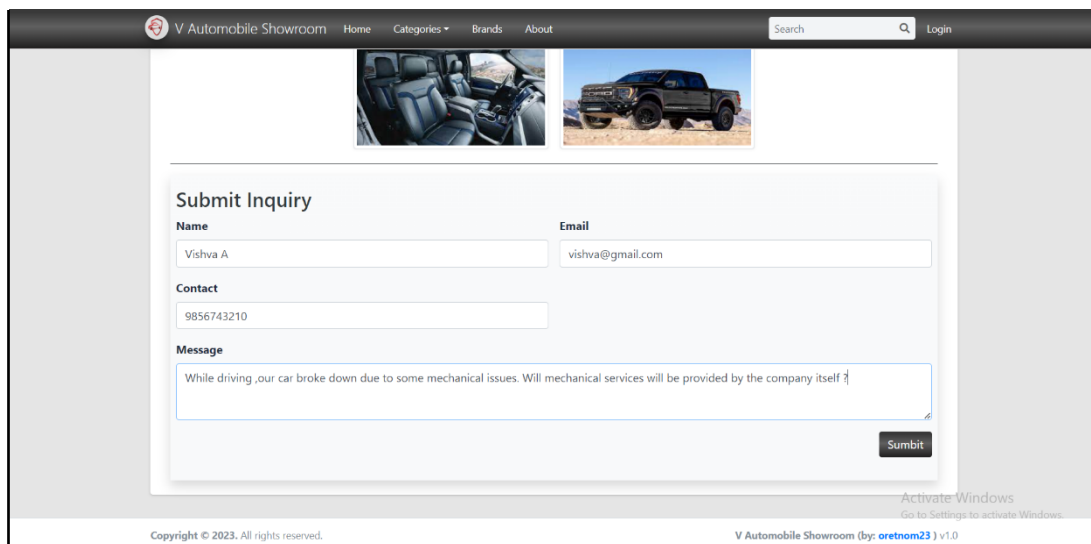
- HOME PAGE

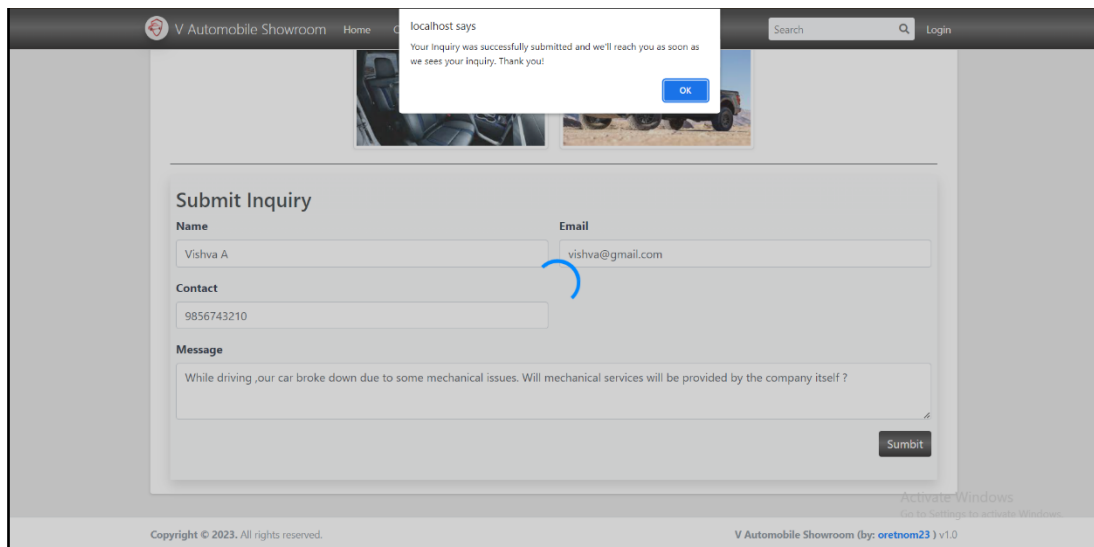


- PRODUCT DESCRIPTION



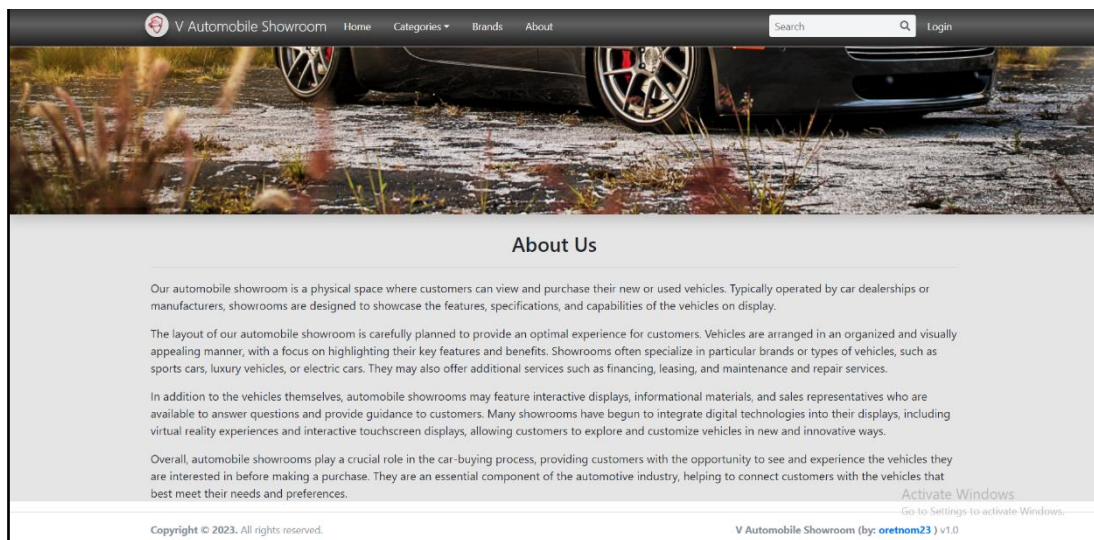
● SUBMITTING QUERIES



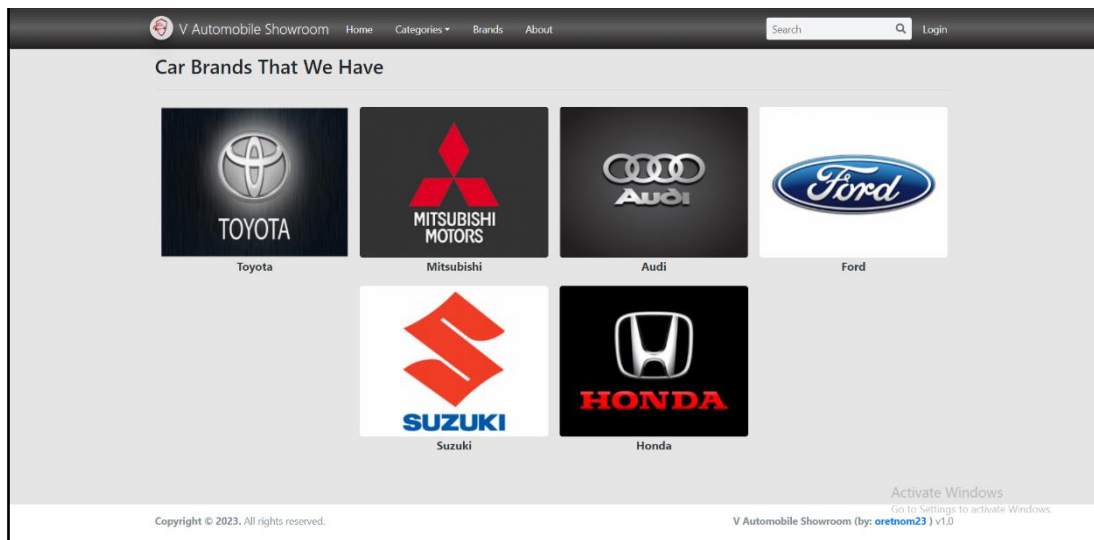


The screenshot shows the 'V Automobile Showroom' website. At the top, there is a navigation bar with 'Home', 'Categories', 'Brands', and 'About' links, along with a search bar and a 'Login' button. A confirmation message from 'localhost' is displayed: 'Your inquiry was successfully submitted and we'll reach you as soon as we see your inquiry. Thank you!' with an 'OK' button. Below this, the 'Submit Inquiry' form is visible. It contains fields for 'Name' (Vishva A), 'Email' (vishva@gmail.com), 'Contact' (9856743210), and a 'Message' text area with the text: 'While driving, our car broke down due to some mechanical issues. Will mechanical services will be provided by the company itself?'. A 'Submit' button is at the bottom right of the form. The footer includes 'Copyright © 2023. All rights reserved.' and 'V Automobile Showroom (by: oretnom23) v1.0'.

● ABOUT US

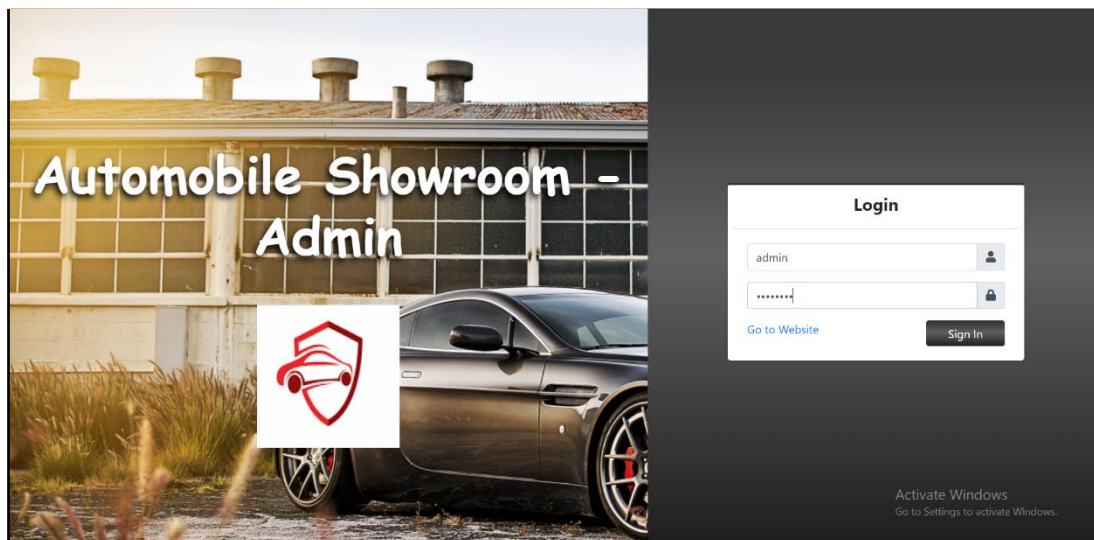


● BRANDS

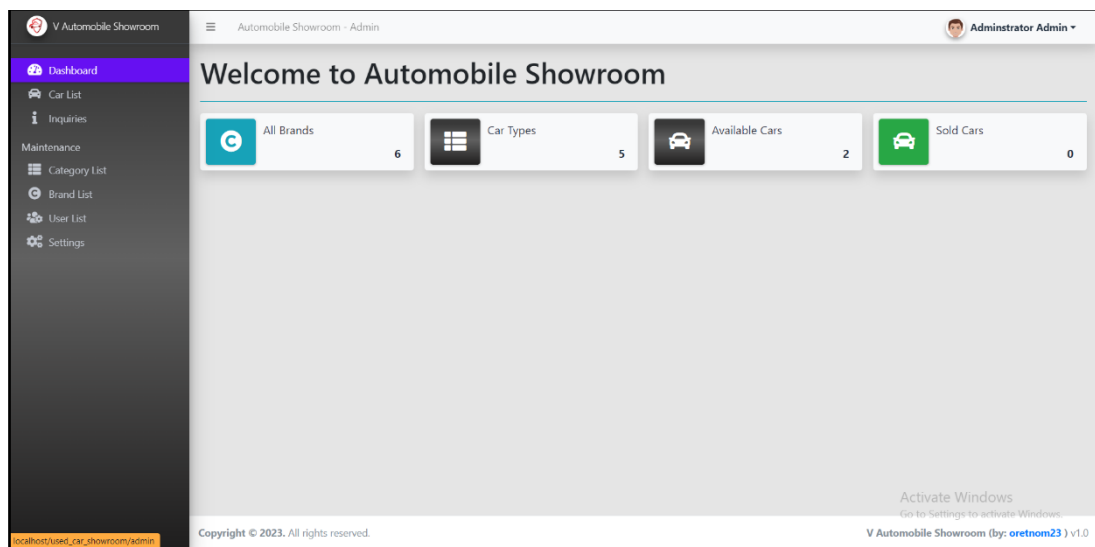


ADMIN INTERACTION

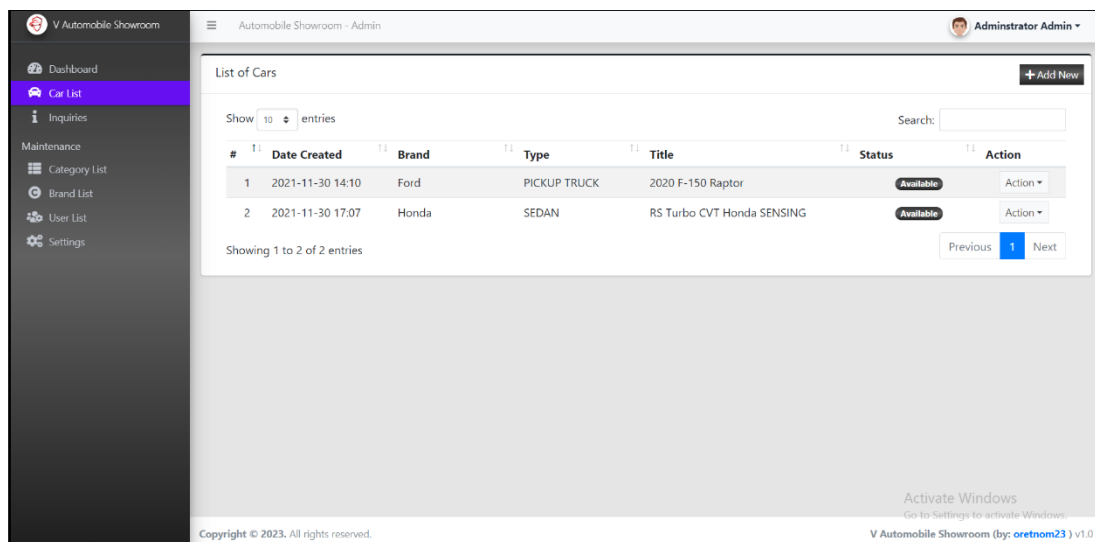
- LOGIN PAGE



- ADMIN HOME PAGE



• LIST OF CARS



• CATEGORIES LIST

List of Category

Show 10 entries

Search:

#	Date Created	Category	Description	Status	Action
1	2021-11-30 10:37	COUPE	A coupe has historically been considered a two...	Active	Action
2	2021-11-30 10:38	PICKUP TRUCK	A pickup truck has a passenger cab and an open...	Active	Action
3	2021-11-30 10:36	SEDAN	A sedan has four doors and a traditional trunk...	Active	Action
4	2021-11-30 10:37	SPORTS CAR	These are the sportiest, hottest, coolest-looking...	Active	Action
5	2021-11-30 10:38	STATION WAGON	Wagons are similar to sedans but have an...	Active	Action

Showing 1 to 5 of 5 entries

Previous 1 Next

Activate Windows
Go to Settings to activate Windows

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● BRANDS LIST

List of Brands

Show 10 entries

Search:

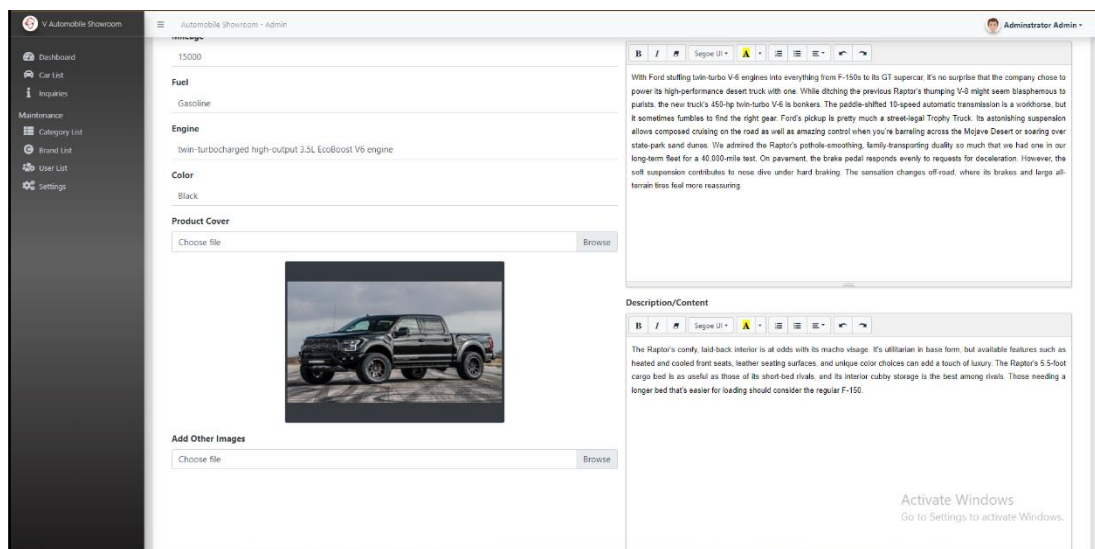
#	Date Created	Image	Brand	Status	Action
1	2021-11-30 11:24		Audi	Active	Action
2	2021-11-30 11:38		Ford	Active	Action
3	2021-11-30 11:43		Honda	Active	Action
4	2021-11-30 11:21		Mitsubishi	Active	Action
5	2021-11-30 11:42		Suzuki	Active	Action
6	2021-11-30 11:20		Toyota	Active	Action

Showing 1 to 6 of 6 entries

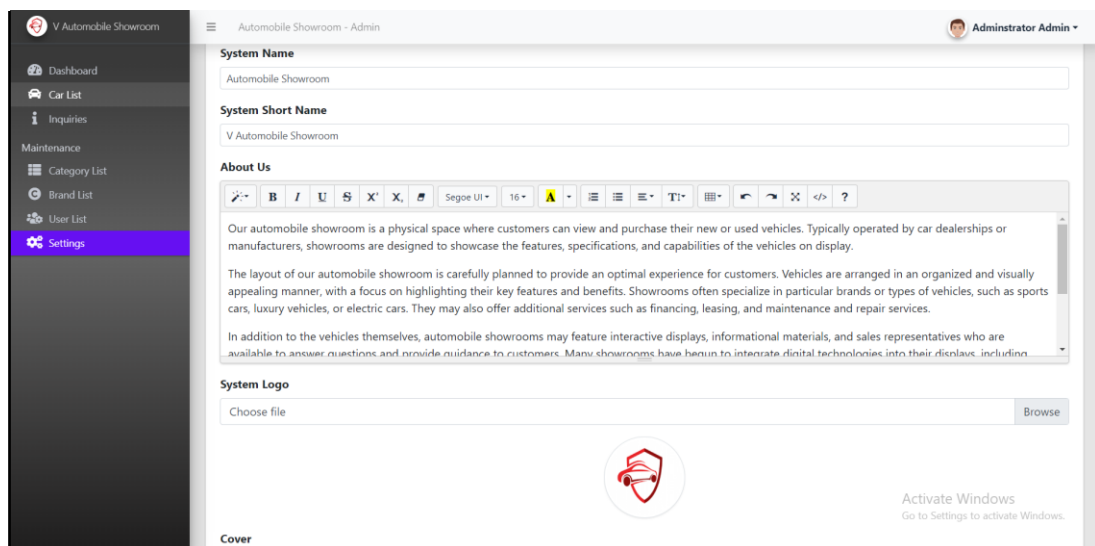
Previous 1 Next

Activate Windows
Go to Settings to activate Windows

● ADDING NEW CAR IN LIST



● MODIFYING USER HOME PAGE



● REVIEWING QUERIES FROM CUSTOMERS

V Automobile Showroom

Dashboard

Car List

Inquiries

Maintenance

Category List

Brand List

User List

Settings

Automobile Showroom - Admin

Administrator Admin

List of Inquiry

Show 10 entries

Search:

#	Date Created	Full Name	Inquired for:	Status	Action
1	2023-04-26 12:44	Vishva A	2020 F-150 Raptor	Unread	Action
2	2021-11-30 16:11	John Smith	2020 F-150 Raptor	Unread	Action

Showing 1 to 2 of 2 entries

Previous 1 Next

Activate Windows
Go to Settings to activate Windows.
V Automobile Showroom (by: oretnom23) v1.0

V Automobile Showroom

Dashboard

Car List

Inquiries

Maintenance

Category List

Brand List

User List

Settings

Automobile Showroom - Admin

Administrator Admin

List of Inquiry

Show 10 entries

Search:

#	Date Created	Status	Action
1	2023-04-26 12:44	Unread	Action
2	2021-11-30 16:11	Unread	Action

Showing 1 to 2 of 2 entries

Previous 1 Next

Inquiry Details

Car Inquired

2020 F-150 Raptor

Full Name

Vishva A

Email

vishva@gmail.com

Contact

9856743210

Inquiry

While driving ,our car broke down due to some mechanical issues. Will mechanical services will be provided by the company itself ?

Status

Unread

Close

Activate Windows
Go to Settings to activate Windows.
V Automobile Showroom (by: oretnom23) v1.0

CHAPTER 7

CONCLUSION AND FUTURE ENHANCEMENT

The automobile showroom management system is a comprehensive solution that can streamline the operations of a showroom and improve its overall performance. The system includes several modules that manage various aspects of the showroom, including inventory, customer management, sales, finance and accounting, service and maintenance, and reporting

The automobile showroom management system has the potential for future enhancements that can further improve the efficiency and performance of the showroom. By leveraging new technologies and integrating with third-party tools, the system can provide a more comprehensive solution for managing the showroom's operations

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