

ABSTRACT

AUTOMOBILE PAINTING MANAGEMENT WEBSITE

- SPLASH PAINTZONE

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MINI PROJECT

This is a personalized automobile workshop website project aims to create an interactive and user-friendly platform that enhances the customer experience and streamlines the process of selecting and booking automobile painting services. The website provides a comprehensive range of modules designed to showcase services, display a portfolio of previous work, facilitate pricing inquiries, enable appointment scheduling, and faster customer engagement.

The website's modules include a visually appealing home page that introduces the business. The services section provides detailed information about the various painting services offered, including complete vehicle repainting, color change, touch-up painting, and custom designs. And module contain login or sign in of users. Including the workshop's contact information and testimonials.

Functionalities:

1. **User Registration and Login:**
Implement functionality that allows new users to create accounts by registering with their email addresses or social media accounts. Existing users can log in to access their profiles and utilize personalized features.
2. **Profile Customization:**
Provide options for users to customize their profiles by adding personal details, such as their name, contact information, vehicle details and preferences. This information can help tailor the user experience and provide personalized recommendations.
3. **Ratings and Reviews:**
Provide a platform for users to rate and review the quality of painting services they have received. This module allows users to share their experiences, provide feedback, and contribute to the reputation and credibility of the automobile painting service.
4. **Painting Assessment:**
Developing a module that utilizes machine learning algorithms to analyze the uploaded car images and assess the painting requirements. This module should provide an output of recommendation on whether painting is needed, considering factors like damage or surface defects.
5. **Admin Dashboard:**
A centralized dashboard that provides an overview of the workshop's operations, including key metrics, appointments, pending tasks, and recent activities.
6. **Appointment Management:**
An interface to manage and view all appointments, including the ability to schedule, reschedule, and cancel appointments. The admin should also have access to a calendar view to see the workshop's schedule at a glance.

7. **Customer Management:** A section where the admin can view and manage customer information, including their contact details, service history, and any notes or preferences associated with individual customers.
8. **Service Management:**
Allow admin to manage the services offered by the automobile painting business. This includes the ability to add, edit, or remove services, update pricing information, and modify service descriptions.
9. **Appointment Scheduling:**
Enable users to schedule appointments for automobile painting services.
Provide a calendar interface for users to select their preferred date and time.
Send confirmation notifications to users with appointment details.

MAIN PROJECT

1. **Color Selection:**
Provide a color visualization tool that allows users to preview different paint colors and finishes on their car.
Integrate with a paint database to offer a wide range of color options.
Enable users to select and save their preferred colors for reference.
2. **Online Payments:**
Integrate secure online payment gateways to facilitate seamless payment processing.
Support multiple payment methods such as credit/debit cards, digital wallets, or bank transfers.
3. **Customer Support:**
This could include answering frequently asked questions, providing information about services, scheduling appointments, or assisting with basic troubleshooting.
4. **Key metrics:**
Including various performance indicators and statistics that help assess and manage the overall performance of the Car Workshop Management System [revenue or total appointments]

Users Types and functionalities:

There are two Users: Customers, admin

Customer:

- Allows new users to create accounts and login
- To analyze the uploaded Car images and assess the painting requirements.
- The ability to schedule, reschedule, and cancel appointments.

Admin:

- Hold the highest level of privilege, control and management of system
- The workshop's operations, including key metrics, appointments, pending tasks, and recent activities.

Technologies used:

Python With Django | SQLite | MYSQL