Project Report

Car Maintenance Service

1ˢᵗ Semester 1446

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Web Programming

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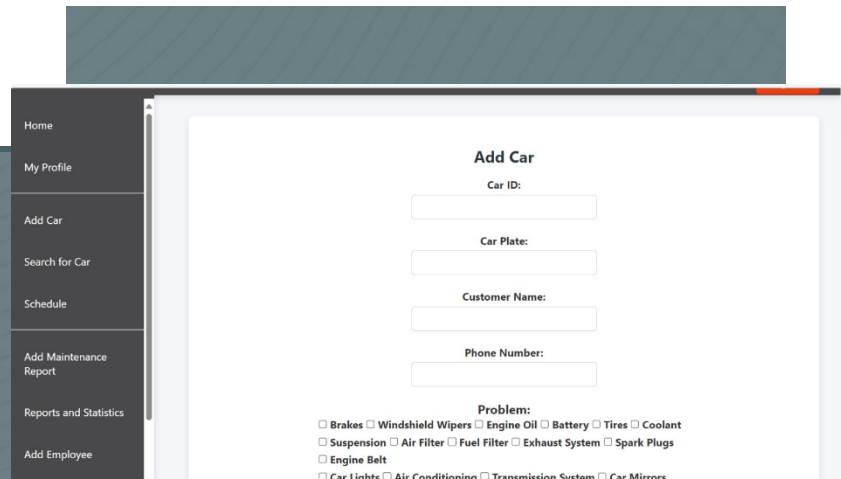ID:443170244
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INTRODUCTION

This project is a web-based application designed for car maintenance service providers to simplify and improve their daily operations. It provides two types of user access: managers and employees, each with specific features to support their roles.

The platform aims to make car service management easier, more organized, and efficient by bringing all necessary tools into one user-friendly system. This report explains the key features, design, and benefits of the application.

Home

My Profile

Add Car

Search for Car

Schedule

Add Maintenance Report

Reports and Statistics

Add Employee

Add Car

Car ID:

Car Plate:

Customer Name:

Phone Number:

Problem:
☐ Brakes ☐ Windshield Wipers ☐ Engine Oil ☐ Battery ☐ Tires ☐ Coolant
☐ Suspension ☐ Air Filter ☐ Fuel Filter ☐ Exhaust System ☐ Spark Plugs
☐ Engine Belt
☐ Car Lights ☐ Air Conditioning ☐ Transmission System ☐ Car Mirrors

The car maintenance service provider web application offers a range of features designed for both managers and employees. Below is a detailed list of the system's capabilities

Employee Features
(Blue Pages)

1. **Add a Car**: Employees can add car details to the system for tracking and maintenance purposes.
2. **Search for a Car**: Employees can search for cars in the database using various criteria.
3. **Add Maintenance Report**: Employees can create detailed maintenance reports for cars.
4. **Schedule Maintenance**: Employees can schedule maintenance tasks for vehicles.
5. **View Reports and Statistics**: Employees can access reports and statistics to analyze car performance and maintenance trends.
6. **View Profile**: Employees can view and manage their own profile information.

Manager Features
(Gray Pages)

In addition to all the features available to employees, managers have the following capabilities:

1. **Add Employee**: Managers can add new employees to the system.
2. **Show Employees**: Managers can view a list of all employees and their details.
3. **Post on X**: Managers post on the official company X account.
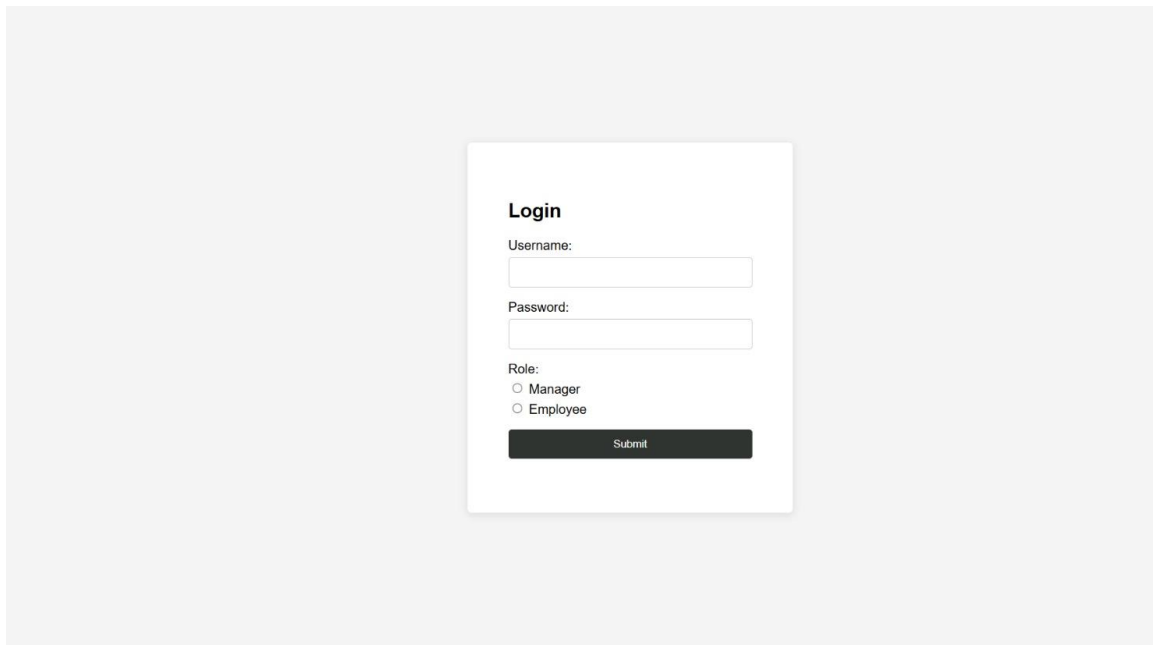
"loginf.php"

Screenshot Description:

Page: loginf.php
- The login page includes fields for entering a username, password, and selecting a user role (Manager or Employee). A "Submit" button is provided to authenticate the user based on their credentials and role.

- **Role/Capabilities**:
  - Validates user credentials.
  - Redirects to the appropriate dashboard (Manager or Employee) based on the selected role.
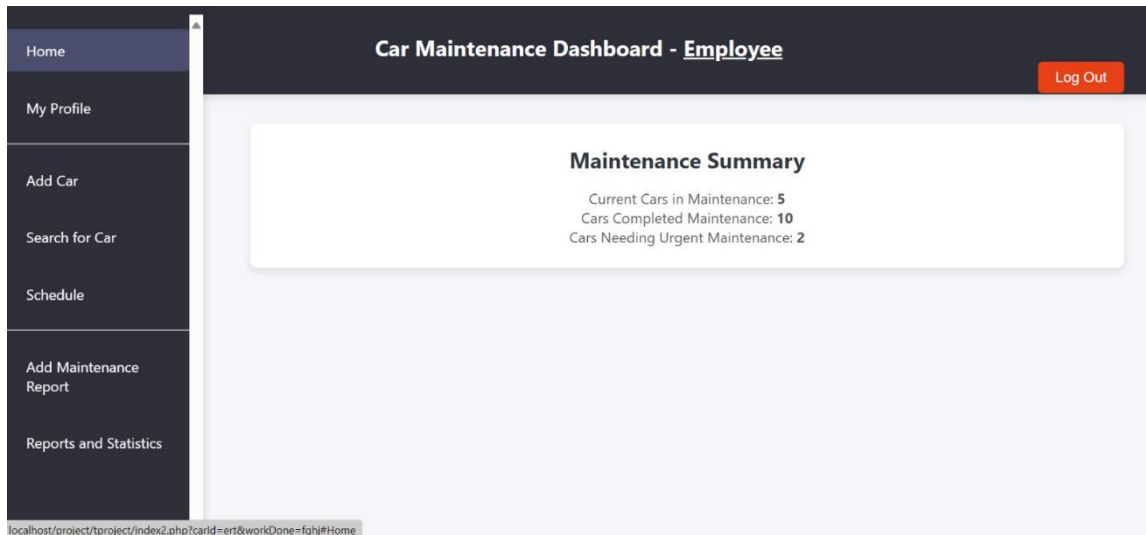
"index2.php#Home"
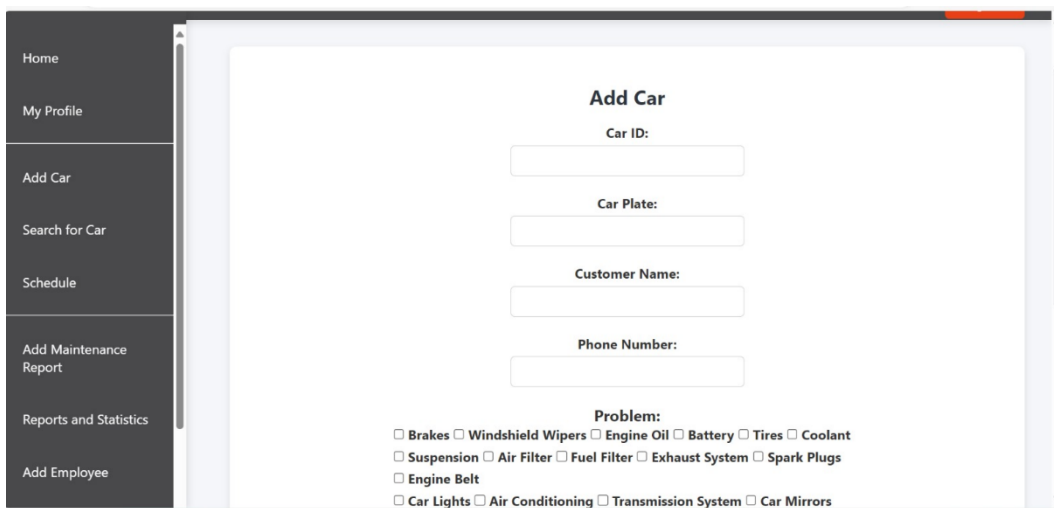
Screenshot Description:

Page: index2.php#Home

is the main dashboard page, displaying a summary of the maintenance status. The sidebar menu provides quick navigation to key features. The page also features a "Log Out" button for user exit.

- Displays a **Maintenance Summary**, including:
    - Number of cars currently under maintenance.
    - Number of cars with completed maintenance.
    - Number of cars requiring urgent maintenance.

Also provides centralized navigation to key system functionalities:
- Add Car
- Search for Car
- Add Maintenance Report
- Schedule Maintenance
- View Reports and Statistics
- View/Edit Profile

"index2.php#addCar"

Page: index2.php#addCar
Screenshot Description: The "Add Car" page allows employees to input details about a car that needs maintenance. The page features fields for the license plate number, customer name, and phone number. It also includes a checklist for selecting various car problems, a text box for entering the car's history, a field for the estimated cost, and an option to mark the issue as urgent.
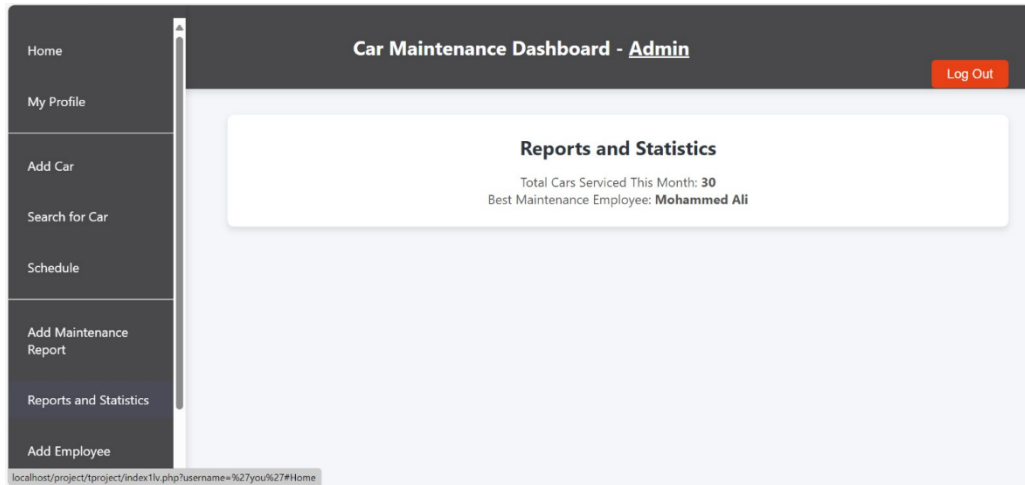
"index2.php#search"

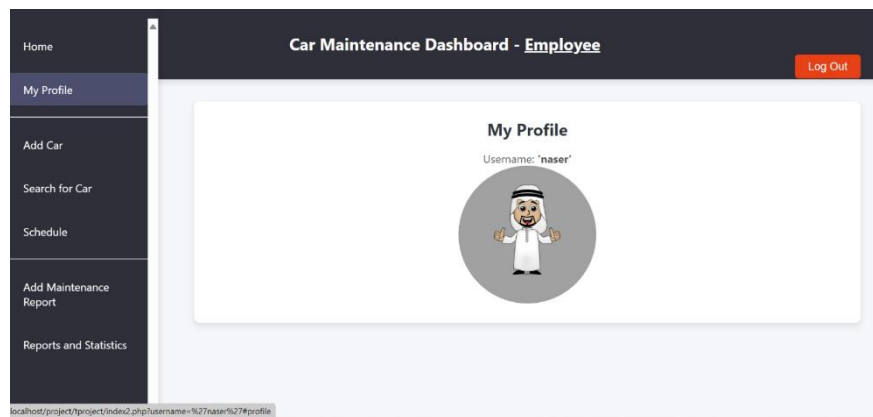

"index2.php#addReport"

Pages:
index2.php#search and index2.php#addReport
Screenshot Description: The "Search for Car" page allows employees to search for specific cars in the system.
The "Add Maintenance Report" page enables employees to input maintenance details for a specific car.

"index2.php#reports"

"index2.php#profile"

Pages:
index2.php#reports and index2.php#profile

Screenshot Description: The "My Profile" page displays basic information about the logged-in user, and his Avatar.

The "Reports and Statistics" page provides an overview of key metrics related to car maintenance.
Displays performance metrics such as:

- **Total Cars Serviced This Month**: A count of the cars serviced within the specified time.
- **Best Maintenance Employee**: Recognizes the top-performing employee based on maintenance performance.

As stated before, in addition to all the features available to employees, managers have the following capabilities:

1. Add Employee: Managers can add new employees to the system.
2. Show Employees: Managers can view a list of all employees and their details.
    We see these capabilities in the next two screenshots.

"index1.php#AddEmployee"

Page:
 Index1.php#AddEmployee
Screenshot Description: The "Add Employee" page allows managers to register new employees in the system.   The page includes fields for entering the employee's name, phone number, email, username, and password, and avatar. There is also an option to assign the new employee's role as either a manager or an employee.

"index1.php#showEmployee"

Page:
Index1.php#showEmployee

Screenshot Description: The "Show Employees" page provides a table listing all employees in the system. The table includes columns for the employee's name, phone number, email, username, password, and role (manager or employee). Additionally, it provides options to edit or delete employee records.

Car Maintenance Dashboard - Admin

Log Out

Add Car

Search for Car

Schedule

Add Maintenance Report

Reports and Statistics

Add Employee

show Employees

Post on Twitter

Post on Twitter

X Post
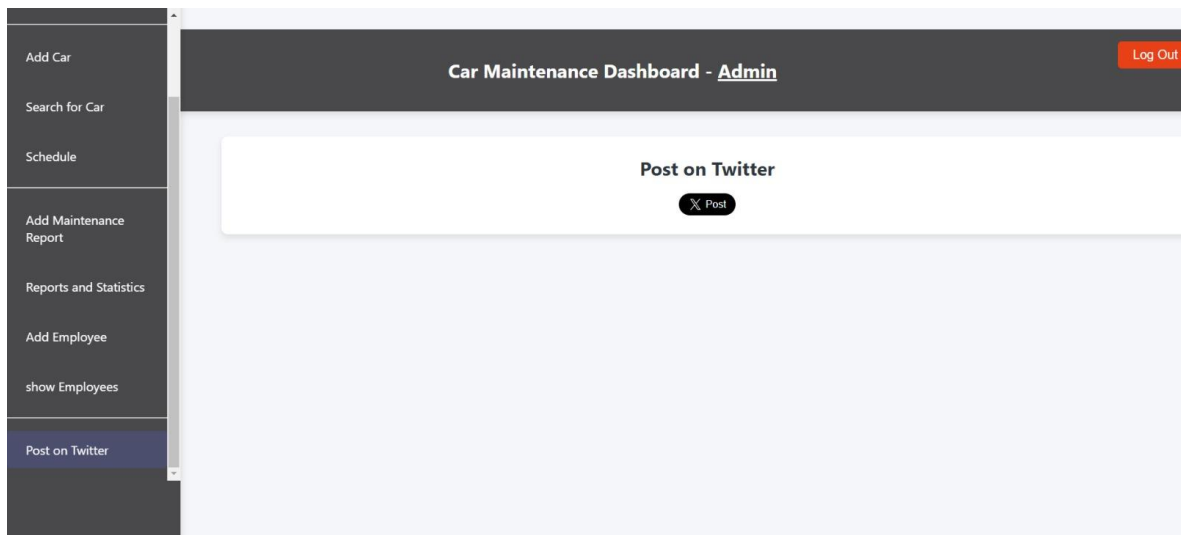
Page:
Index1.php#postOnX
   Screenshot Description: Managers can click the "Post" button to Post on the official X account for the company using X API web service.

Site Map

Log in

Employee

- Home
  - Maintenance Summery
  - Log Out
- Add Car
- Schedule
- Search for Car
- Add a Maintenance Report
- Reports and Statistics
- My Profile

Manager

- Home
  - Maintenance Summery
  - Log Out
- Add Car
- Schedule
- Search for Car
- Add a Maintenance Report
- Reports and Statistics
- Show Employee
- Add Employee
- Post on X
- My Profile