Vehicle Servicing Application

Overview:

This is a web-based application that facilitates vehicle servicing at home that intends to deliver doorstep service. This is an integrated system that contains both the user component and the admin component.

The aim of this application is to provide both the Customer & the Admin with certain features. The Automotive Workshop owner displays their services & cost for the same, manages the slots booked by Customers along with their details. The Customers/Users can register & login to the application, browse available services depending on their desired time slots, add them to their cart and check-out thereby confirming the service.

Functional requirement:

**Admin:**

1. Registration:

* The admin must register by providing their details.
* The system should record the admin details into Member database.

1. Login:

* The system must verify admin details with the database for successful login.

1. Add services:

* The Admin will add services.

1. Block services:

* The Admin blocks a service in case it is temporarily unavailable.

1. View orders:

* The Admin views services booked by the customer, accept & deny those requests.

1. Profile:

* The admin can access & edit their profile.

1. Logout:

* This module is used to logout from the application by the admin.

**Customer:** Customer is an End-User of this system. The customer must be a registered user of this application to access the services.

1. Registration:

* The customer must register by providing their details.
* The system should record the customer details into Member database.

1. Login:

* The system must verify customer details with the database for successful login.

1. Book Service:

* The customer selects their desired services, provides required details along with a preferable time slot & books a service.

1. Reschedule Service:

* The customer can reschedule their service any time before the time slot.

1. Cancel Service:

* The customer can cancel their order any time before the time of service.

1. My Orders:

* The customer can view their previously booked services.

1. Checkout:

* After the customer adds their desired services into the cart, they checkout by selecting a method of payment.

1. Profile:

* The customer can access & edit their profile.

1. Logout:

* This module is used to logout from the application by the customer.

Modules:

1. Admin

In this module, the admin can manage services (add, view, block & delete services), add time slots and view overall summary.

1. Customer

In this module, a customer registers with their details, browses services, checks available slots, books a slot; they can also cancel & reschedule their slot.

1. Services

The services are managed by the admin. The customer can select an inspection service or a problem-based service.

1. Requests

The Admin accepts or denies requests from customers.

1. Payment

The customer has a privilege to select a method of payment (COD, Net Banking, Online Payment).

1. Overall Summary

The Admin can view an overall summary regarding the order history of their customers.

Use Case Diagram:

Workflow:

1. Customer navigates to Home page to register and login.
2. Once the customer logins they can proceed to book a service.
3. Customer will add their desired services to the cart, provide required details along with time slot.
4. Customer will continue to checkout.
5. Select a method of payment.
6. Customer will receive a message for successful service booking.
7. Customer will logout from the application.

Technologies Used:

Backend: Spring REST, PostgresSQL

Frontend: Angular, HTML, CSS, Bootstrap, ReactJS.

Deployment: Web