**Design Doc for Online Automotive Dealership System**

**Overview:** The **Online Automotive Dealership System** is a scalable platform designed to connect multiple automotive dealers with customers. Rather than being limited to a single dealer's inventory, the platform aggregates inventories from many dealers, enabling customers to browse a wide selection of vehicles based on dealer location and other criteria. Dealers can opt to join the platform, providing access to their inventory for customers to view and purchase. This system enhances the online car-buying experience for customers and helps streamline the sales process for dealers by automating inventory and order management.

**Clients or Target audience:**

* **Automotive Dealers**: dealers who can list and manage their inventory on the platform
* **Customers:** Buyers who can browse list of vehicles from various dealers and filter results based on proximity and place orders
* **Administrators:** Platform administrators who manage user accounts, monitor dealer data, and ensure the platform’s smooth operation.

**Features / Functionalities / Services:**

1. **User Management Service**

* **Login Module**

Admin Login functionality, Authentication Mechanism, Role Based Access control

* **Logout Functionality**

Admin logout to terminate session and clear session data.

1. **Admin Dashboard Service**

* **Car Overview:** Display statistics of available vehicles, orders, and customer activities
* **Car Details:** Admin can access detailed information for each vehicle in the system.
* **Order Overview:** View a summary of customer orders, payment statuses and deliveries.

1. **Vehicle Management Service Module**

* **Adding New Vehicle Details:** Admin can add new vehicles to the platform with specified details.
* **Edit Existing Details:** Admin can edit or update the information of existing inventory.
* **View All Vehicle Info**: Admin can view complete list of vehicle inventory.

1. **Order Management Service Module**

* **Adding New Order Details**: Admin can add new orders when customers make a purchase or request a test drive
* **Edit Existing Order Details:** Admin can modify the existing order details.
* **View All Order Details:** Admin can view all the list of orders , their progress , maintain statuses such as delivery and payment.

**Compliance standards for dealers and customers/users**