**Vehicle Rental System**

Problem statement: The primary objective of this vehicle rental system is to provide a convenient way of renting a vehicle for temporary use.

**ROLES**

1. Customers

* **Login/Sign up**
* **Search Vehicles:** Search for available vehicles based on criteria such as type, location, and rental dates.
* **Booking:** Booking vehicles for specific dates and times.
* **View Rental History:** Check past rental transactions and details
* **Cancel Booking:** Cancel or modify existing reservations within allowed terms

1. Employees

* **Login:** via provided details by administrator
* **Manage Rentals:** Process rentals transactions, check vehicle availability, and update rental status.
* **Vehicle Inspection:** Performs checks and maintenance on vehicles, record vehicle condition before and after rentals
* **Update Vehicle Status:** Update the availability status of vehicles based on current rentals and maintenance

1. Maintenance Manager

* **Vehicle Maintenance:** Schedule and record maintenance activities, repairs, and inspections
* **Manage Maintenance Records:** Maintain logs of maintenance activities and vehicle service history
* **Report Issues:** Report any vehicle issues or required repairs to administrators or staff.
* **Update Database:** Which vehicle is gone for services and adds new vehicle

1. Admin

* **Manage Users:** Add, remove, and update user accounts, including customers and staff
* **Vehicle Management:** Add, remove, and update vehicle information (e.g. make, model, availability, pricing)
* **View Reports:** Generate and view reports on rentals, revenue, and vehicle status.
* **Generates the price strategy:** Generate the discount coupons, pricing strategy, etc.

**FLOWCHART**

**ADMIN:**

LOGOUT

VIEW VEHICLE LIST

VIEW USER LIST

ADD/UPDATE/REMOVE VEHICLES

ADD/UPDATE/REMOVE USERS

VEHICLE MANAGEMENT

MANAGE USERS

CHOOSE OPERATIONS

LOGIN/SIGN UP

START

**CUSTOMER:**

LOGOUT

UPDATE PROFILE

VIEW AVAILABLE VEHICLES

SEARCHING VEHICLES

BOOKING TIME/DETAILS

VIEW RENTAL HISTORY

CONFIRM/MODIFY BOOKING

LOGIN/SIGNUP

START

**EMPLOYEE:**

START

LOGOUT

UPDATE STATUS

RECORD CONDITIONS

UPDATE RENTAL STATUS

CHECK AVAILABILITY

MANAGE RENTALS

LOGIN