**Requirements Analysis Document**

**Requirement Analysis for Admin Role:**

1. Admin should be able to **Login** to our application
2. Admin should be able **Manage Vehicle Type** (for eg. small car, full-size car, truck, or a luxury car).

- Add new Vehicle type.

- Edit Vehicle type details.

- Delete existing Vehicle type.

1. Admin should be able **Manage Vehicle Rental Price**

- Set hourly rental price for each Vehicle type.

- Set rental price for hourly ranges like 1-5,6-10 hours etc.

- Set late return fee.

- Set 6-month membership price.

- Edit Rental prices.

1. Admin should be able to **Manage Rental Locations**.

- Add Rental Locations.

- Delete Rental Location.

- Edit Rental Rental Location.

- Get Rental Location.

1. Admin should be able to **Manage Vehicles**.

- Add Vehicle.

- Edit Vehicle properties.

- Delete Vehicle.

1. Admin should be able to **Assign each Vehicle to a Rental Location**.
2. Admin should be able to **Modify any information** stored in the system.

- Reassign Vehicles to different locations.

- Remove Customer for serious violation of rental agreement.

**Requirement Analysis for User Role**:

1. User should **Register** for the first time he is accessing the application. User should provide details that include

* Username
* Password
* email
* Name
* Age
* Driver’s license details
  + License Issued State
  + License Number
  + Expiry
  + Type of license
* Address
* Credit card details (For membership fee)

1. Users should be able to **Login** to their profile once their application is approved.
2. Users can **modify** their details like

* Personal information except username.
* Should be able to renew membership
* Terminate Membership at any time (But the fee is non-refundable).

1. Users can see all the vehicles present at any location.
2. Users have the ability to **specify their requirements using filters** like

* Vehicle type (Regular car, Truck, Van)
* Pickup Location
* Drop off Location
* Date and Time
* Length of the rental

1. Users can **select** from the vehicles shown after all the filters applied and can **reserve** it
2. Users can **cancel** the existing reservation without extra charges 1 hour before the scheduled pickup time.
3. Users should be able to **notify** after they return the vehicle
4. Users also have the ability to **comment on the vehicle condition** after returning the vehicle.

**UI Design Specifications**

1. **Login** screen:
2. On viewing the website, the first screen displayed is the login page, with an option for an existing user to login to the application with User ID and Password.
3. A new user clicks on sign-up button and is led to another page with a form to enter EmailID, create password and other registration info.
4. **Home** screen (landing screen after logging into the system) - Browse and search vehicles and locations.
5. **RegisterUser** screen - Form submit with textboxes for Name, Driver’s License, Address, Credit Card information.
6. **Location** screen - create, edit, delete locations. Has information such as Location Name, Address, capacity and list of vehicles assigned to that location.
7. **Vehicle** - create, edit, delete vehicles. Has information such as Vehicle Name, Vehicle Type, make and model, year, registration tag, current mileage, and the time, vehicle condition and the location it is assigned to.
8. **VehicleType** - Enter different types of vehicles and set prices for different vehicle types in hourly ranges. Also set late fees etc.
9. **ManageUser** screen - Admin should be able to remove users for violations.
10. **Reservation** - place reservation on a selected vehicle and location.
11. **Account** screen - User should be able to extend membership, terminate membership.

**Role Management**

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| --- | --- | --- |
| **Screen** | **Admin Access** | **User Access** |
| Login | Yes | Yes |
| Home | Yes | Yes |
| Register User | Yes | Yes |
| Location | Yes | No |
| Vehicle | Yes | No |
| VehicleType | Yes | No |
| ManageUser | Yes | No |
| Reservation | Yes | Yes |
| Account | Yes | Yes |