**Add Car**

**Purpose:**

The purpose of the "Add Car" function in the Car Rental System is to input new car details into the system from the administrator's side, thereby increasing the number of items available in the inventory. This ensures that users have a wide range of choices when selecting a rental car.

**Scope:**

The feature requires the admin to input the details of new cars, add them to the inventory, and make them available for rental to users.

**Audience:**

Developers and testers are engaged in the development and testing of the rental application. Admin serves as the primary user.

**Functionalities:**

Admin can add car details after filling all the fields by clicking an add car button.

Admin can reset the details by clicking reset button

**Requirements:**

**UI:**

Admin can add car’s specifications and details such as registration number, manufacturer, model name, colour, mileage, engine type, kilometres travelled by the car, car transmission type, and car description, which incorporates details of minor and major damages as well as the performance.

Admin can upload multiple images of a car to the rental inventory to offer a visual representation of the vehicle.

Admin can add multiple rental details for hourly, daily, and weekly durations for the car.

Admin can set the availability option for the car.

**Backend:**

The details entered by the admin should be in the correct format, so ensure proper validations for fields like image formats, parameter types, and price details in Indian Rupees.

The Image files should be stored carefully with respect to each car and description.

Admin needs to be verified again when adding a car to the inventory.

Car Details should be updated in the database.

**Car Details**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| RegistrationNumber | VARCHAR(50) | Primary key for the table. |
| ManufacturerName | VARCHAR(50) | Name of the manufacturer of the vehicle. |
| CarModel | VARCHAR(50) | Model of the vehicle. |
| ModelYear | INT | Year in which the vehicle was manufactured. |
| PassengerCapacity | INT | Number of passengers that the vehicle can seat. |
| Colour | VARCHAR(50) | Color of the vehicle. |
| TransmissionType | VARCHAR(50) | Transmission type of the vehicle (e.g., automatic, manual). |
| FuelType | VARCHAR(50) | Type of fuel that the vehicle uses (e.g., gasoline, diesel, electric). |
| HasAc | BIT | Boolean value to represent whether car had ac or not. |
| Mileage | INT | Mileage of the vehicle. |
| ImageData | VARBINARY(MAX) | Store image as raw byte array |
| PricePerHour | INT | Price to rent the vehicle per hour. |
| PricePerDay | INT | Price to rent the vehicle per day. |
| PricePerWeek | INT | Price to rent the vehicle per week. |
| KilometersDriven | DECIMAL(10,2) | Total number of kilometers that the vehicle has been driven. |
| CarAvailability | VARCHAR(50) | Availability status of the vehicle (e.g., available, rented, unavailable). |
| Description | VARCHAR(MAX) | Description of the vehicle. |