**User Home Page**

**1. Introduction**

**Purpose:** This document outlines the requirements for the User Home Page functionalities of the car rental system.

**Scope:** The functionalities include showing available car, the user clicked and having navigation buttons for booking the selected car and adding the car to wish list and have some filter options to search the required car.

**Audience:** Developers, designers and testers involved in the development and testing of the car rental system.

**2. Functionalities**

**2.1 User stories**

As a user, I want to search the car by choosing the rent and return date in the filter options.

As a user, I want to see the full details of the car I clicked in the Home page.

As a user, I need to be redirected to the Book Car page when I click Book Car button.

As a user, the system must notify me if the car is not available currently.

As a user, I can add the car to my wish list when I click Add to Wish list button.

**2.2 Requirements**

Searching the car by giving the rent date and return date for showing the available car to the user.

A system should show specific car details like car number, model name, brand name, colour, image, kilo meter, type, engine type, price and availability to the users.

On clicking Book Car button, user must be redirected to Book Car page if selected car is available.

On clicking Add to Wish list button, the car details must be added to the User Wish list.

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| **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) | Colour 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 kilo meters 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. |