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# Software Requirements Specification

**For: Car Bookings**

**Version** 1.0

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## Revision History

Name	Date	Reason For Changes	Version

# **1. Introduction**

## **1.1 Purpose**

This documentation is written to describe the web application (Car Reservation System) and what is the foundation of this project. It gives an overall view of how the system is supposed to work and what is to be expected by the user.

## **1.2 Intended Audience and Reading Suggestions**

- 1.2.1 Customer.
- 1.2.2 Developers.
- 1.2.3 Testers.
- 1.2.4 Project manager.

## **1.3 Project Scope**

This platform will host enormous database of cars enabling the sellers to advertise and market their cars and to help the buyer to search for their desired cars. It is a web application will be used by users and admins. The admin will be able to add, delete and update cars and also add users and other admins. The user will be able to reserve the desired car and search by color, brand and price.

## **1.4 References**

- 1.4.1 Customer requirements specification.
- 1.4.2 Sample in Question (SIQ).

# **2. Overall Description**

## **2.1 Product features**

The system allows users to register, login, search for a car by specific criteria and reserve the desired car and allows admins to add, delete, update cars and also add users or other admins.

## **2.2 Design and Implementation Constraints**

- 2.2.1 Web-based / PC based.
- 2.2.2 Unique username for each user or admin.
- 2.2.3 Adding additional features for the admin.

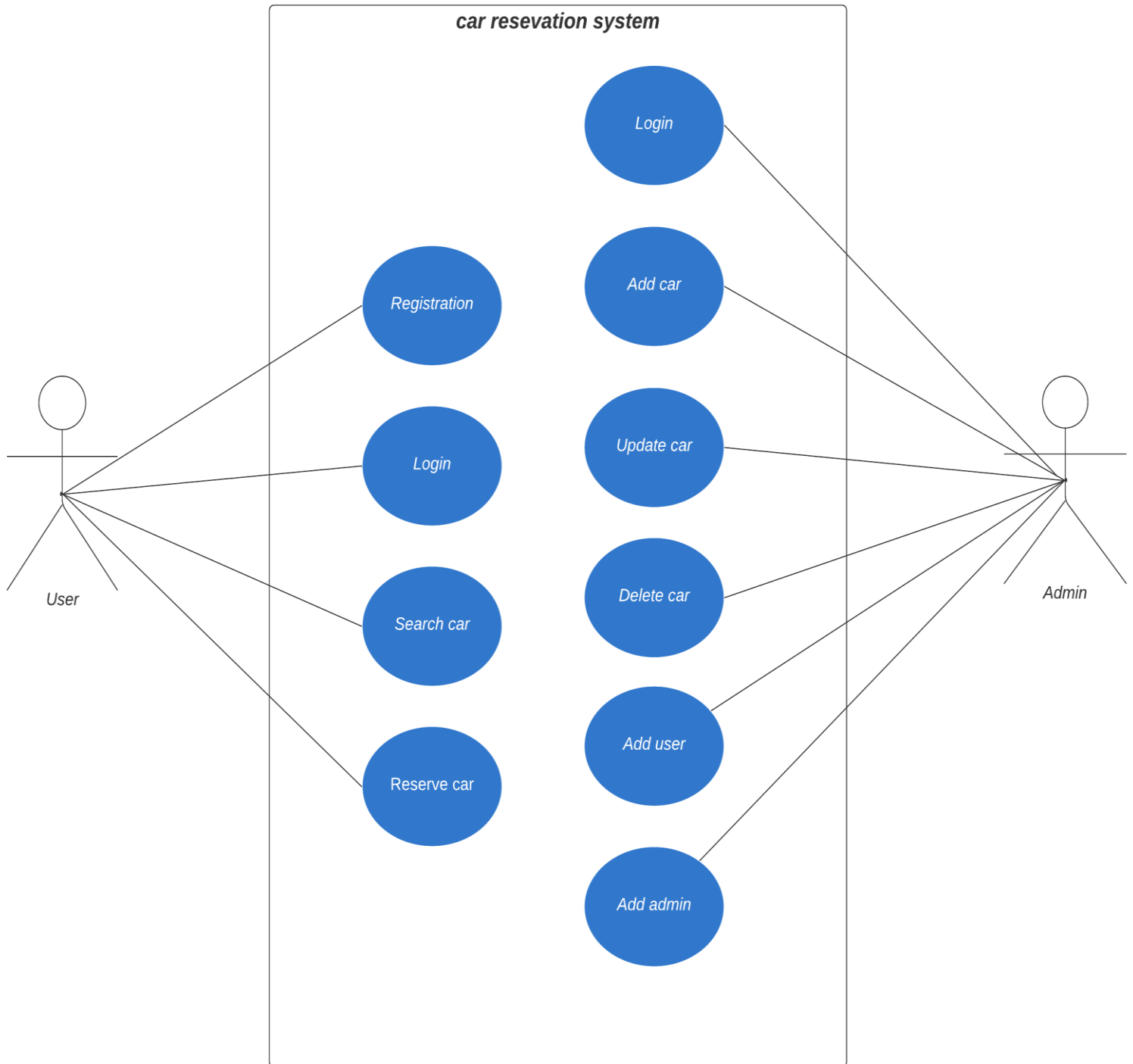
## **2.3 System components**

- 2.3.1 Registration page
- 2.3.2 Login page
- 2.3.3 Available cars list page for users.
- 2.3.4 Available cars list page for Admins.
- 2.3.5 Add new admin page.
- 2.3.6 Add new user page.
- 2.3.7 Add new car page.
- 2.3.8 Update car page.

## **2.4 Assumptions**

- 2.4.1 When generating random usernames, the system shall give admin username specific format so it can be identified as a admin.
- 2.4.2 The password should be at least 8 characters and may contain letters, digits and special characters.
- 2.4.3 When adding new user or admin by the admin the system shall generate random password and username and send them through the email.
- 2.4.4 Languages used C#.
- 2.4.5 Browsers: Chrome, Firefox, and Edge.
- 2.4.6 Operating System: 10, 11.

## 2.5 Use Case



## **3. System Features**

### **User Functional Requirements**

#### **3.1 Registration**

##### 3.1.1 Description and Priority

The user will register using e-mail, password and mobile phone (Priority 1).

##### 3.1.2 Stimulus/Response Sequences

After user Registration an e-mail containing unique username will be sent to the user to confirm registration.

##### 3.1.3 Functional Requirements

REQ-1: The user shall enter valid e-mail.

REQ-2: The user shall enter valid password at least 8 characters and may contain letters, digits and special characters.

REQ-3: The user shall enter a valid mobile number containing eleven digits. Can't contain special characters or characters.

REQ-4: The system will confirm registration and send a unique username through pre entered e-mail.

#### **3.2 Login**

##### 3.2.1 Description and Priority

The user will login using username and password (Priority 1).

##### 3.2.2 Stimulus/Response Sequences

When logging in user will land on car listing page with number of currently available cars.

##### 3.2.3 Functional Requirements

REQ-5: The user shall enter valid username to login.

REQ-6: The user shall enter valid password that matches the username to login.

REQ-7: The system shall redirect user to the listing page contains the currently available cars.

REQ-8: Each car in the listing page appears by image, price, brand, color and a button to reserve the chosen car.

### **3.3 Search**

#### **3.3.1 Description and Priority**

User can search for cars based on different search criteria (Priority 3).

#### **3.3.2 Stimulus/Response Sequences**

After searching by color, price or brand the system will view the cars that apply to that features.

#### **3.3.3 Functional Requirements**

REQ-9: After the user searches for cars by the specific feature either color, brand or price the system shall redirect the user to a page of the cars that matches this features.

REQ-10: If the user entered invalid features the system shall view a page containing message “There is no car that matches the chosen feature”.

REQ-11: If the specified feature is available a page containing the currently available cars appears and each car displayed by image, price, brand, color and a button to reserve the chosen car.

### **3.4 Reservation**

#### **3.4.1 Description and Priority**

After the user chooses for the available cars in the list the system enables the user to reserve the car (Priority1).

#### **3.4.2 Stimulus/Response Sequences**

After the user clicks the reservation button the system will show a message to confirm the reservation.

#### **3.4.3 Functional Requirements**

REQ-12: The user shall choose the car and press reserve.

REQ-13: The system will show a pop message “car is reserved”.

REQ-14: The system shall decrease remained quantity of the car after reservation.

REQ-15: The system shall check the remained quantity of the car after reservation and remove the cars from the car list if the quantity is zero.

## **Admin Functional Requirements**

### **3.5 Login**

#### **3.5.1 Description and Priority**

The Admin will login using predefined username and password (Priority 1).

#### **3.5.2 Stimulus/Response Sequences**

When logging as admin will land on car listing page with number of currently available cars and three buttons in the header to add cars, users or other admins.

#### **3.5.3 Functional Requirements**

REQ-16: The admin shall enter the predefined username.

REQ-17: The admin shall enter the predefined password.

REQ-18: The system shall redirect the admin to the car listing page after entering the valid credentials.

REQ-19: Options for delete or update for each car shall appear as buttons under each car.

REQ-20: Options for add cars, user or other admins shall appear in the page header.

### **3.6 Add new car**

#### **3.6.1 Description and Priority**

The admin should be able to add new cars into our system (Priority 1).

#### **3.6.2 Stimulus/Response Sequences**

When the admin presses add new car button the system redirects him to the adding car page.



### 3.6.3 Functional Requirements

REQ-21: The admin shall be able to press on add new car.

REQ-22: The system shall redirect him to the adding car page.

REQ-23: The admin shall choose valid brand from brands dropdown list.

REQ-24: The admin shall choose valid color from the car color dropdown list.

REQ-25: The admin shall enter valid price in the car price field.

REQ-26: The admin shall be able to upload an image for the car by pressing upload image button.

## 3.7 Update car

### 3.7.1 Description and Priority

The admin should be able to update any car's information (Priority 2).

### 3.7.2 Stimulus/Response Sequences

When the admin presses update car button the system redirects him to the update car page.

### 3.7.3 Functional Requirements

REQ-27: The admin shall be able to press on update car button.

REQ-28: The system shall redirect the admin to the updating car page.

REQ-29: The admin shall be able to change brand from the dropdown list.

REQ-30: The admin shall be able to change color from the dropdown list.

REQ-31: The admin shall be able to change price in the car price field.

REQ-6: The admin shall be able to replace the uploaded image for the car by pressing upload image button.

## 3.8 Delete car

### 3.8.1 Description and Priority

The admin should be able to delete any car (Priority 3).

### 3.8.2 Stimulus/Response Sequences

When the admin presses delete car button the system shall remove car from database.

### 3.8.3 Functional Requirements

REQ-32: The admin shall be able to press on delete car button.

REQ-33: The system shall delete car from database.

REQ-34: The system shall remove the car from currently available cars list page.

REQ-35: The system shall view message “The car is deleted”.

## 3.9 Add new admin

### 3.9.1 Description and Priority

The admin should be able to add new admin (Priority 2).

### 3.9.2 Stimulus/Response Sequences

When the admin presses add admin button he shall be redirected to adding new admin page.

### 3.9.3 Functional Requirements

REQ-36: The admin shall be able to press on add admin button.

REQ-37: The system shall redirect the admin to the adding new admin page.

REQ-38: The admin shall enter valid email for the new admin.

REQ-39: The admin shall click on submit.

REQ-40: The system shall send email contains unique username with special format  
for admins and random generated password.

REQ-41: The system shall view a message” new admin is added successfully”.

## 3.10 Add new user

### 3.10.1 Description and Priority

The admin should be able to add new user (Priority 2).

### 3.10.2 Stimulus/Response Sequences

When the admin presses add user button she/he shall be redirected to adding new user page.

### 3.10.3 Functional Requirements

REQ-42: The admin shall be able to press on add user button.

REQ-43: The system shall redirect the admin to the adding new user page.

REQ-44: The admin shall enter valid email for the new user.

REQ-45: The admin shall click on submit button.

REQ-46: The system shall send email contains unique username and random generated password.

REQ-47: The system shall view a message” new user is added successfully”.

## **Appendix B: Issues List**

No issues