Software Requirements Specification

For: Car Bookings

Version *1.4*

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Revision History

Name	Date	Reason For Changes	Version
Monica Atef	12-4-2022	Added more features and assumptions	1.1
Nourhan Medhat	29-4-2022	Requirements changes from customer	1.2
Monica Atef	5-5-2022	Applying customer comments	1.3
Monica Atef	6-5-2022	Changing requirements IDs	1.4

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

Project Management Plan

2.5 Use Case

Use case

3. System Features

Customer requirements

- **CR-001**

  Registration: The user can register.

- **CR-002**

  User login: The user can login with unique user ID.

- **CR-003**

  Search: The user can search for cars based on different search criteria.

- **CR-004**

  Reservation: The user has the option to reserve car from the available cars.

- **CR-005**

  Admin login: The Admin can login with unique user ID.

- **CR-006**

  Add new car: Admin can add new car.

- **CR-007**

  Update car: Add can update car details.

- **CR-008**

  Delete car: Admin can delete a car from the system.

- **CR-009**

  Add new admin: The admin can add other admins.

- **CR-010**

  Add new user: Admin can add new users.

User Functional Requirements

3.1 CR-001: 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-Regs-001: The user shall enter only valid format e-mail ex: email@gmail.com.

Req-Regs-002: The user shall enter password. The password field can't be blank.

Req-Regs-003: The user shall confirm password. The password confirmation field can't be blank and the password should match the previously entered password in Req-Regs-002.

Req-Regs-004: The user shall enter a valid mobile number containing eleven digits.

Req-Regs-005: The user shall be able to press on register button.

Req-Regs-006: If any of the entered data is incorrect a message "please enter correct data to register" shall appear and fields with wrong data appear surrounded by red.

Req-Regs-007: If all entered data is correct the system will confirm registration and send a unique username through pre entered e-mail.

3.2 CR-002: User 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-User-Log-001: The user shall enter username that was sent on e-mail on
registration to login.

Req-User-Log -002: The user shall enter valid password that matches the username
to login.

Req-User-Log -003: The system shall redirect user to the car listing page which
contains all the currently available cars.

Req-User-Log -004: Each car in the listing page appears by image, price, brand,
color, car ID and a button to reserve the chosen car.

3.3 CR-003: 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-Search-001: After the user searches for cars by color the system shall redirect
the user to a page of the cars that matches this color.

Req-Search-002: After the user searches for cars by brand the system shall redirect
the user to a page of the cars that matches this brand.

Req-Search-003: After the user searches for cars by price the system shall redirect the
user to a page of the cars that matches this price.

Req-Search-004: If the user entered invalid feature that is not brand, color or price
the system shall view a page containing message "There are no cars match
your request.

Req-Search-005: If the user entered valid feature that is color, brand or price but

there are no available cars match this feature the system shall view a page

containing message "There are no cars match your request".

Req-Search-006: If the specified feature is available a page containing the currently

available cars appears and each car displayed by image, price, brand, color,

car ID and a button to reserve the chosen car.

3.4 CR-004: 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 (Prority1).

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-Res-001: The user shall choose the car and press reserve.

Req-Res-002: The system will show a pop up message "car is reserved".

Admin Functional Requirements

3.5 CR-005: Admin 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-Admin-log-001: The admin shall enter the predefined username that was sent

through email.

Req-Admin-log-002: The admin shall enter the predefined password that was sent through email and matches the username.

Req-Admin-log-003: The system shall redirect the admin to the car listing page containing all available cars.

Req-Admin-log-004: Car ID, color, brand and price for each car shall appear and options for delete or update for each car shall appear as buttons under each car in the car listing page.

Req-Admin-log-005: Options for add cars, user or other admins shall appear in the page header.

3.6 CR-006: 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-Add-Car-001: The admin shall be able to press on add new car that exists in the car listing page that the system redirects the admin to after login.

Req-Add-Car-002: The system shall redirect him to the adding new car page.

Req-Add-Car-003: The admin shall choose brand from brands dropdown list.

Req-Add-Car-004: The admin shall choose color from the car color dropdown list.

Req-Add-Car-005: The admin shall enter valid price which contains digits only in the car price field.

Req-Add-Car-006: The admin shall be able to upload an image for the car by pressing upload image button.

Req-Add-Car-007: The admin shall be able to press add button and pop message "The car is added successfully" appears.

3.7 CR-007: 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-Update-Car-001: The admin shall be able to press on update car button that exists in the car listing page under each car that the system redirects the admin to after login.

Req-Update-Car-002: The system shall redirect the admin to the updating car page.

Req-Update-Car-003: The admin shall be able to change brand from the dropdown list.

Req-Update-Car-004: The admin shall be able to change color from the dropdown list.

Req-Update-Car-005: The admin shall be able to change price in the car price field and the new price entered should be valid price contains digits only.

Req-Update-Car-006: The admin shall be able to replace the uploaded image for the car by pressing upload image button and the old image should be removed and replaced by the new one.

Req-Update-Car-007: The admin shall be able to press update button and pop up message "The car is updated successfully" appears.

3.8 CR-008: 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-Del-Car-001: The admin shall be able to press on delete car button that exists in

the car listing page under each car that the system redirects the admin to

after login.

Req-Del-Car-002: The system shall delete car from database.

Req-Del-Car-003: The system shall remove the car from currently available cars

listing page.

Req-Del-Car-004: The system shall view pop up message "The car is deleted".

3.9 CR-009: 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-Add-Admin-001: The admin shall be able to press on add admin button that

exists in the car listing page that the system redirects the admin to after

login.

Req-Add-Admin-002: The system shall redirect the admin to the adding new admin

page.

Req-Add-Admin-003: The admin shall enter valid email format for the new admin

ex: email@gmail.com .

Req-Add-Admin-004: The admin shall be able to click on submit.

Req-Add-Admin-005: The system shall send email contains unique username with

special format for admins which begins with "admin" and random

generated password.

Req-Add-Admin-006: The system shall view a pop up message" new admin is added

successfully".

3.10 CR-010: 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-Add-User-001: The admin shall be able to press on add user button that exists in the car listing page that the system redirects the admin to after login.

Req-Add-User-002: The system shall redirect the admin to the adding new user page.

Req-Add-User-003: The admin shall enter valid email format for the new user ex: email@gmail.com .

Req-Add-User-004: The admin shall be able to click on submit button.

Req-Add-User-005: The system shall send email contains unique username and random generated password.

Req-Add-User-006: The system shall view a pop up message" new user is added successfully".

Appendix B: Issues List

No issues