**Software Requirements Specification (SRS) for Car Purchasing Web Application**

**Revision History**

| **Date** | **Description** | **Author** | **Comments** |
| --- | --- | --- | --- |
| 16/3/2024 | Version 1 | Amira Bahaa | Initial Draft |

**Document Approval**

The following Software Requirements Specification has been accepted and approved by the following:

| **Printed Name** | **Title** | **Date** |
| --- | --- | --- |
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# 

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the functional and non-functional requirements for the development of a Car Purchasing Web Application. This application will serve as a platform for sellers to advertise their cars and for buyers to search and reserve desired cars.

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## 1.2 Scope

The Car Purchasing Web Application will provide users with the ability to register, login, search for cars based on various criteria, and reserve available cars. The application will also include administrative features for managing users and listings.

## 1.3 Definitions, Acronyms, and Abbreviations

- SRS: Software Requirements Specification

- PC: Personal Computer

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# 2. Overall Description

## 2.1 Product Perspective

The Car Purchasing Web Application will be a standalone system accessible through web browsers on PCs. It will interact with a database to store and retrieve car listings, user information, and reservation details.

## 2.2 Product Features

The main features of the application include:

1. User Registration and Login

2. Car listing page displaying the number of currently available cars.

3. Search functionality allowing users to search for cars based on different criteria.

4. Option for users to reserve cars from the available listings.

5. Admin Features for User and Listing Management

## 2.3 User Classes and Characteristics

The application will have two primary user categories:

**- User:** Individuals interested in buying or selling cars.

**- Admin:** Responsible for managing the system, including user accounts, car listings, and reservations.

## 2.4 Operating Environment

The Car Purchasing Web Application will be accessible via web browsers on PCs with an internet connection.

# 3. Specific Requirements

## 3.1 External Interface Requirements

### 3.1.1 User Interfaces

The user interface shall be intuitive and user-friendly, facilitating easy navigation for both buyers and sellers.

The user interface shall be intuitive and user-friendly, allowing users to easily navigate through the application.

The application shall include the following interfaces:

- Registration and login forms for users.

- Car listing page displaying available cars.

- Search functionality with various search criteria.

- Reservation form for users to reserve cars.

### 3.1.2 Hardware Interfaces

None

### 3.1.3 Software Interfaces

The application shall interact with a backend database to store and retrieve car listings, user information, and reservation details.

## 3.2 Functional Requirements

### 3.2.1 User Registration and Login

**srs\_registeration\_01**

- User shall be able to register using their phone number , name and password.

**User id:** Available phone number contains 11 characters

**Password:** must contain at least 8 characters, including uppercase alphabets and one number.

**srs\_Login\_01**

- User shall be able to login using their unique user ID and password.

**User id:** Available phone number contains 11 characters

**Password:** must contain at least 8 characters, including uppercase alphabets and one number.

### 3.2.2 Car Listing Page Display

**srs\_CarListingPage\_01**

- Upon logging in, users shall land on the car listing page displaying the number of currently available cars.

-Each listing page will contain a maximum of 10 available cars

**srs\_CarListingPage\_02**

-Each car card will contain the car image, model, and price.

### 3.2.3 Car Details Page Display

**srs\_CarDetailsPage\_01**

- The car details page shall include car model, price, seller name, and seller phone number

### 3.2.4 Car Search Functionality

**srs\_CarSearch\_01**

- Users will be able to search based on model name by filling the model name input field.

**srs\_CarSearch\_02**

- Users will be able to search based on price by specifying the price range field with

### 3.2.4 Car Reservation Option

**srs\_CarReservation\_01**

- Users shall have the option to reserve a car from the available listings.

- Upon reserving a car, the listing shall be marked as reserved and the user notified.

### 3.2.5 Admin Features

- Admin users shall have access to features for managing user accounts and listings.

- Admins shall be able to add, edit, or delete user accounts.

- Admins shall be able to add, edit, or delete car listings.

## 3.3 Non-Functional Requirements

None till now

# 4. User Categories

- User

- Admin

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# 5. Constraints

- The system shall be web-based and accessible via PC.

- User IDs shall be unique.

- Admin features are required for user and listing management.

# 6. Additional Features (Added) / Change management Process

- Passwords must contain at least 8 characters, including uppercase alphabets and one number.

- Search criteria shall include the ability to search by car model.