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**Subject: Web Technologies**

**Software Requirements Specification (SRS)**

**1. Introduction**

## **1.1 Purpose**

This document outlines the software requirements for the development of a car filtering website. The website allows users to filter cars based on price and fuel type.

## **1.2 Scope**

This software will provide a user-friendly interface for users to filter through a collection of cars based on their price range and preferred fuel type.

## **1.3 Definitions, Acronyms, and Abbreviations**

SRS: Software Requirements Specification

HTML: HyperText Markup Language

CSS: Cascading Style Sheets

JavaScript: Programming language for web development

AngularJS: JavaScript-based framework for web applications

## **2. Overall Description**

### **2.1 Product Perspective**

The car filtering website is a standalone system that interacts with users through a web browser. It utilizes HTML, CSS, JavaScript, and AngularJS to provide an interactive and dynamic user experience.

### **2.2 Product Features**

Filter cars based on price range.

Filter cars based on fuel type.

Display filtered cars with relevant information.

Book a test drive for selected cars.

## **2.3 User Classes and Characteristics**

Users of the system include:

General users: Individuals interested in browsing and filtering cars.

Administrators: Responsible for managing car listings and system maintenance.

## **2.4 Operating Environment**

The system operates on modern web browsers such as Chrome, Firefox, Safari, and Edge. It requires an internet connection to access the website.

## **2.5 Design and Implementation Constraints**

The system is designed using HTML, CSS, JavaScript, and AngularJS. It may require compatible web hosting services to deploy and run the website.

# **3. System Features**

## **3.1 Filter Cars**

Description: Users can filter cars based on price range and fuel type.

Inputs: User-selected price range and fuel type.

Outputs: Filtered list of cars that match the selected criteria.

### **3.2 Display Car Listings**

Description: Display the filtered list of cars with relevant information such as name, price, fuel type, mileage, engine displacement, and seating capacity.

Inputs: Filtered car data.

Outputs: Visual representation of cars with relevant information.

### **3.3 Book Test Drive**

Description: Allow users to book a test drive for selected cars.

Inputs: User action to book a test drive.

Outputs: Confirmation message indicating successful booking.

## **4. External Interface Requirements**

### **4.1 User Interfaces**

The user interface consists of web pages designed using HTML, styled with CSS, and enhanced with JavaScript and AngularJS for interactivity.

### **4.2 Hardware Interfaces**

The system runs on standard hardware with internet connectivity to access the website.

### **4.3 Software Interfaces**

Web browsers (Chrome, Firefox, Safari, Edge)

AngularJS framework

External libraries for icons and styling (Font Awesome, Line Icons)

## **5. Non-Functional Requirements**

### **5.1 Performance Requirements**

The system should respond to user interactions promptly. The filtering process should be fast, even with a large dataset of cars.

### **5.2 Security Requirements**

User data such as personal information or payment details are not collected or stored by the system. However, basic security measures should be implemented to protect against common web vulnerabilities.

### **5.3 Usability Requirements**

The user interface should be intuitive and easy to navigate. Users should be able to filter cars effortlessly and understand the information presented.

## 5.4 Reliability Requirements

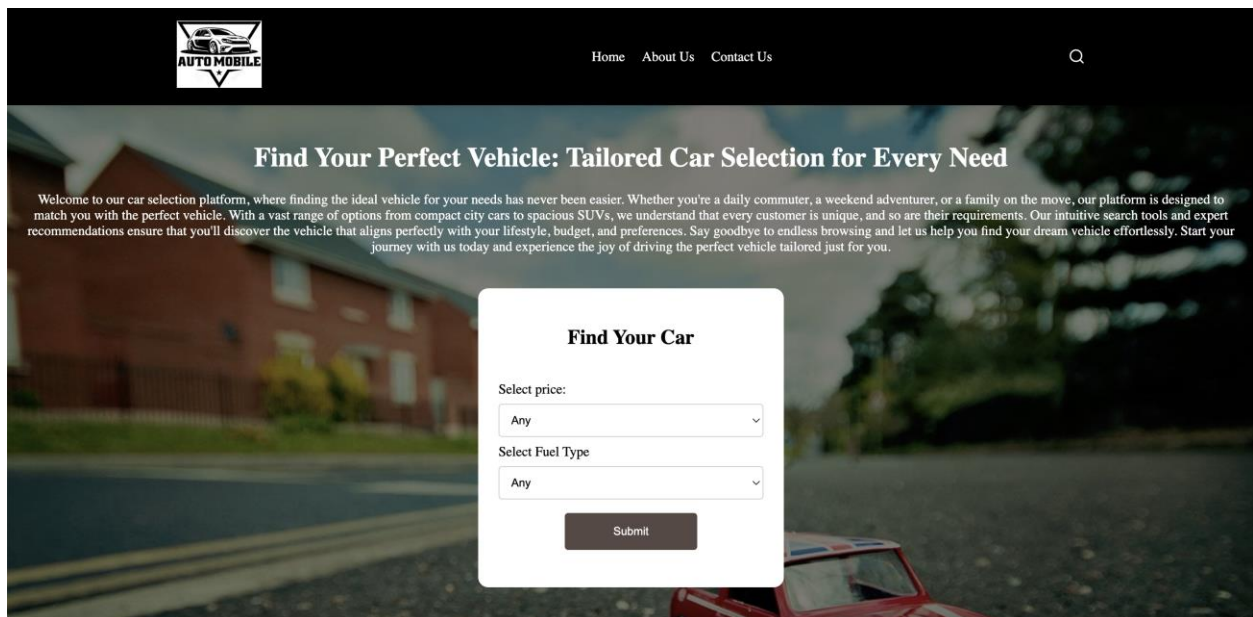
The system should be available and operational most of the time. Any maintenance or downtime should be scheduled in advance.

## 6. Conclusion

This Software Requirements Specification outlines the requirements for developing a car filtering website. By adhering to these requirements, the system aims to provide users with a seamless experience for exploring and filtering cars based on their preferences.

### Working of Website:

#### Home page:



## Search Bar:



Search here...

## Process of filtering cars:

### Step 1: Select Price



## Find Your Car

Select price:

- ✓ Any
- Below 15 lakhs
- 15 - 30 lakhs
- Above 30 lakhs

Submit

## Step 2: Select Fuel type

### Find Your Car

Select price:

Below 15 lakhs


Select Fuel Type


✓ Any

Petrol

Diesel


## Result:

[Home](#) [About Us](#) [Contact Us](#)




**Maruti Swift**  
Price: 6.00 Lakh  
Fuel Type: Petrol  
22.39 kmpl : 1498 cc : 5 seater

[Book a Ride](#)



**Maruti Wagon R**  
Price: 8.50 Lakh  
Fuel Type: Petrol  
19.09 kmpl : 1498 cc : 5 seater

[Book a Ride](#)



**Tata Altroz**  
Price: 6.65 - 10.80 Lakh  
Fuel Type: Petrol  
18.19 kmpl : 1498 cc : 5 seater

[Book a Ride](#)





### Mahindra XUV300

Price: 7.13 Lakh

Fuel Type: Petrol

18.09 kmpl : 1498 cc : 5 seater

[Book a Ride](#)



### Tata Punch

Price: 6.13 Lakh

Fuel Type: Petrol

19.09 kmpl : 1498 cc : 5 seater

[Book a Ride](#)



### Hyundai Creta

Price: 11.17 Lakh




Fuel Type: Petrol


17.09 kmpl : 1498 cc : 5 seater

[Book a Ride](#)


## Media Query /Responsive website:










**Maruti Swift**  
Price: 6.00 Lakh  
Fuel Type: Petrol  
22.39 kmpl : 1498 cc : 5 seater  
[Book a Ride](#)



**Maruti Wagon R**  
Price: 8.50 Lakh  
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Price: 6.65 - 10.80 Lakh  
Fuel Type: Petrol  
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[Book a Ride](#)



## About Us:



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Welcome to Car Filter, your ultimate destination for finding the perfect car for your needs. At Car Filter, we strive to make the car buying process as easy and convenient as possible.

Our website allows you to filter cars based on price and fuel type, so you can quickly find the vehicles that match your criteria. Whether you're looking for an affordable compact car or a luxurious SUV, we've got you covered.

With our user-friendly interface and comprehensive search options, you'll be able to browse through thousands of cars with ease. Our team of experts is also here to help answer any questions you may have and provide personalized recommendations based on your preferences.

So why wait? Start exploring our vast selection of cars today and find the perfect vehicle for you!

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