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CAR SELLING WEBSITE

SYSTEM

REQUIREMENT

**SPECIFICATION**

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# Overview

## Purpose of this document

This document provides the functional requirements covered in the project “Car Selling Website”. All the features will include a feature name, a short description and React and Next.js techniques that the developer are applying to their works.

# Functional requirements

Describe some main functional requirements and how the solution has covered each of the items.

## Search cars

### Description

* On the hone page, users can search for cars by typing keywords into the search box.
* The system allows searching by name, brand, model, and year.

### Techniques

* Create two components named SearchBox and CarList
* In the index page, use “Static Site Generation” to pre-render the list of cars at build time, which is good for SEO.
* The index page contains the SearchBox and the CarList components. Whenever the user triggers a search, the index page calls the API to get the cars then passes to the CarList to render.
* Use the State hook to store the current cars.

## Register sell car

### Description

* Users want to sell their cars online and they need a place to post information to sell them.
* To advertise cars for sale, user must be signed in and go to sell car page by pressing sell car button. On the sell car page, the user must fill out all of the information required to sell the car and submit the form, after that the selling car will appear on the homepage where the buying car can find them.

### Techniques

* Use functional components to create question field components (TextField, AutoComplete, DatePicker…) each field are required value, if the input is invalid, the error will be displayed. These components are built with “@mui/material” library.
* The form data after submission will send to API by using fetch API.
* Use useSession() to check user is signed in after reaching the register sell car page.