**CSSE3101/ITSE302 – ADVANCED WEB TECHNOLOGIES**

**STUDENT CENTERED ACTIVITY 2– JAVASCRIPT ES6**

1. Design the page as shown below:

A screenshot of a car information

Description automatically generated

1. Use arrow function to implement the following:
   1. showModels()
      1. Function Description – When the user selects a brand (Toyota, Nissan, or Honda) from the dropdown menu, the "Model" dropdown menu should dynamically populate with the models available for that brand. For example, if the user selects "Toyota," the "Model" dropdown should display "Corolla" and "Camry" as options.

Consider the following in the implementation:

* + - * Store the following models in a separate array for each brand:
* Toyota – Corolla, Camry
* Nissan – Sentra, Tida
* Honda – Civic, Accord, CR-V
  + - * Use the array map() function to add the new options in the select (dropdown box) for models.
    1. Parameter - brand
    2. Function invocation – when the user selects a brand
  1. computeTotalPrice()
     1. Function Description – Computes the following and returns the Total Price:
        + Find Tax:
          1. if Year is 2020 and above, tax = 3% of the Price
          2. if Year is below 2020, tax = 1.5% of the Price
        + Find and return the Total Price

Total Price = Price + Tax

*Note: Use the ternary operator to implement the above requirements*

* + 1. Parameter – price and year
    2. Function Invocation – none
  1. saveCar()
     1. Function Description – Do the following:
        + Get the following values:
* Car Number (from the input field)
* Selected Brand (from the dropdown)
* Selected Model (from the dropdown)
* Price (from the input field)
* Year (from the input field)
  + - * Display all the inputs in the “Car Information” section as shown in the design, including the Total Price. Invoke the above computeTotalPrice() function and get the Total Price.
    1. Parameter - none
    2. Function invocation – when the user clicks the Save button