**CSSE3101 – ADVANCED WEB TECHNOLOGIES**

**SHORT TEST**

**SPRING SEMESTER AY 2022-2023**

**SECTION I: 10 marks**

***Instructions:*** Make a folder TEST on Desktop. Download the exam work files**(vehicle.html and image.jpg)** from Moodle and place files in your folder. Open the file **vehicle.html** and answer all the questions.

**Refer to the wireframe given to create the required web page layout.**

|  |  |
| --- | --- |
| Car Maintenance System | |
| Image | Form  Summary |

**Q1)** Update the **vehicle.html** file based on the instructions provided below.

|  |  |
| --- | --- |
| 1. Create the layout using Bootstrap Grids. | *[2 marks]* |
| 1. Apply the Bootstrap class to change color of the page heading text ***‘car maintenance System’.*** | *[1 mark]* |
| 1. Apply the appropriate classes for the form elements. | *[1 mark]* |

**Q2)** Al-anwar autimobile is a car maintenance carriage. After they provide the service to their customers, they want to calculate the labor cost and service cost. Use the **vehicle.html** file, write the JavaScript code to implement the required functionalities.

|  |  |
| --- | --- |
| 1. Create a JavaScript function **computeCost().** | *[1 mark]* |
| 1. The form is getting two inputs. labor working hours and spare parts cost.   The carriage is charging five(5) rials per hour.  Labor cost = working hours \* 5  Then find the service cost according to following formula.  Service cost = Labor cost + Spare Parts cost | *[2 marks]* |
| 1. The function also has to validate the working hours. If the working hour is less than or equal to zero, then raise an alert message *“Please enter valid data.”* | *[1 mark]* |
| 1. Finally, the function displays the Labor cost and Service cost in the summary section. | *[1 mark]* |
| 1. Invoke the function when the user clicks the button | *[1 mark]* |

**Expected Output.**

**Graphical user interface, application, website

Description automatically generated**