Langara College

**Department of Computing Science and Information Systems**

**CPSC 2030** **– Web Development II**  Midterm **#2**

**Fall 2022**

**Total Marks: 100**

**Time Allowed: 110 minutes**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_\_\_ /100**

**Instructions:**

* Download **MT2**.zip from D2L and unzip it.
* Copy the folder **mt2** to the folder **htdocs** on the server**.**
* **You must implement and call all the functions given.**
* At the end of the test, zip the folder **mt2** and upload it to D2L.

**Task 1: [10 marks] Create a database and a table on the Server**

* Under phpMyAdmin, create a database named **mt2**.
* Under the database mt2, create a table named **inventory** with an auto-incremented ID and the fields that **exactly** match the field names given in the form **Add a Car** shown on the /templates/index.php page. Decide on a suitable data type for each field.

**Task 2: [20 marks] Create a Connection to the Database and Submit the Form**

* Add PHP code to the file /index.php and the file database.php to add form data to the database table **inventory**

**Task 3: [30 marks] Download Data from the Database and Display**

* Add PHP code to the file /index.php and the file database.php to download the data from the database table inventory and display the data in the table on the /templates/index.php page
* Use PHP to find out and display the total number of cars in the inventory and the average price (keep two decimals) of all the cars in the inventory.

**Task 4: [20 marks] Validate Form on the Client-side**

* Add client-side rules to the file /template/index.php to ensure that all the form fields are required, year must be between 1900 and 2022, and price must be greater than or equal to 0. You need to provide your own error message for each invalid input.

**Task 5: [20 marks] Validate Plate Number on the Server-side**

* Add PHP code to the file validation.php to validate the car plate number. A valid car plate number must be in one of the following three formats (where L is a letter and D is a digit):
  + LLLDDD
  + LLDDDL
  + DDDLLL
* If the plate number is not valid, display an appropriate message below the plate number field, else do not display anything.
* If any of the form data is not valid, the form data will not be added to the database table.