

**ITS30605: Web Programming**  
**Practical Assignment 2, August 2020 Semester**

**Objective(s)/Learning Outcome(s) Assessed**

The purpose of this assignment is:

- To demonstrate practical skills using scripting languages such as HTML, JavaScript and Cascading Style Sheets to design and develop web pages (ML01)

**Taylor's Graduate Capabilities (TGCs) developed**



Discipline Specific  
Knowledge

## Task 1

You are required to create a HTML file that produces a webpage output in the web browser using HTML and CSS as shown in the picture below.

No.	Book Title	Author	Category	Unit Price	Quantity	Total
1	<input type="text"/>	<input type="text"/>	Please choose the category... ▾	0.00	<input type="text" value="0"/>	0.00
2	<input type="text"/>	<input type="text"/>	Please choose the category... ▾	0.00	<input type="text" value="0"/>	0.00
3	<input type="text"/>	<input type="text"/>	Please choose the category... ▾	0.00	<input type="text" value="0"/>	0.00
4	<input type="text"/>	<input type="text"/>	Please choose the category... ▾	0.00	<input type="text" value="0"/>	0.00
5	<input type="text"/>	<input type="text"/>	Please choose the category... ▾	0.00	<input type="text" value="0"/>	0.00
Calculate Grand Total Price					0.00	

The webpage should contain the following HTML elements:

1. **ONE (1)** HTML table that produces the same layout as shown in the given picture
2. **FIVE (5)** input text fields for users to input the Book Title. Default value is empty.
3. **FIVE (5)** input text fields for users to input the Author's name. Default value is empty.
4. **FIVE (5)** dropdown fields for users to select the book's Category. These dropdown fields should contain list items as shown:

- Please choose the category...
- Business
- Fiction
- Mathematics
- Technology

5. **FIVE (5)** input text fields for users to input the Unit Price. Default value is 0.00.
6. **FIVE (5)** input text fields for users to input Quantity. Default value is 0.
7. **FIVE (5)** input text fields to view Total. Users are not allowed to input in these input text fields. Default value is 0.00.
8. **ONE (1)** button with the text "Calculate Grand Total Price".
9. **ONE (1)** input text field to display the Grand Total. Users are not allowed to input in this text field. Default value is 0.00.

## Task 2

Insert CSS with **pseudo-classes using embedded style** into the same HTML file to modify the presentation of the webpage as follows.

a. Header row set font to bold.

b. Header and footer rows set background color to skyblue.

c. All 5 text fields for Total column set background colour to silver

No.	Book Title	Author	Category	Unit Price	Quantity	Total
1	<input type="text"/>	<input type="text"/>	<input type="text" value="Please choose the category..."/>	0.00	0	0.00
2	<input type="text"/>	<input type="text"/>	<input type="text" value="Please choose the category..."/>	0.00	0	0.00
3	<input type="text"/>	<input type="text"/>	<input type="text" value="Please choose the category..."/>	0.00	0	0.00
4	<input type="text"/>	<input type="text"/>	<input type="text" value="Please choose the category..."/>	0.00	0	0.00
5	<input type="text"/>	<input type="text"/>	<input type="text" value="Please choose the category..."/>	0.00	0	0.00
Calculate Grand Total Price						0.00

d. Entire row in table changed background colour to yellow when mouseover event occurred.

e. All text fields for number input should set font to right aligned.

f. Grand total text field set font size to 18pt, and set background colour to silver.

## Task 3

Write JavaScript code in the same HTML file with the following criteria and functions:

1. Create a function called `calculateTotal()` to calculate  $\text{Unit Price} \times \text{Quantity}$ , and assign the result value to the total text field for each row. Then, sum the amounts in the Total text fields and assign the result value to the grand total text field.
2. Execute the function `calculateTotal()` when a user clicks on the "Calculate Grand Total Price" button.

The following picture shows a webpage output example after executing the JavaScript code.

**Book Ordering System**

No.	Book Title	Author	Category	Unit Price	Quantity	Total
1	Harry Potter	Rowling JK.	Fiction	124.50	1	124.50
2	Technopreneurship	John Copper	Technology	50.00	2	100.00
3	Mathematics	Khannan Boto	Mathematics	87.90	1	87.90
4	Business Foundation	Kito Nagaya	Business	133.00	1	133.00
5	e-Business	Jolin Kitty	Technology	0.00	0	0.00
Calculate Grand Total Price					445.40	

#### Task 4

Write JavaScript into the same HTML file to perform the following actions:

1. Make sure the Unit Price and Total Price is always displayed with two decimal points.  
(e.g. 123.45)
2. Make sure that only numbers can be entered into the Total Price and Quantity fields.

#### Task 5

Apply additional CSS to improve and enhance the webpage's layout. You do not need to make a new CSS file; rather, you may apply the additional CSS in the same HTML file. If you choose to make a new CSS file however, ensure that all the files here are kept in a separate subfolder. No marks will be deducted, nor will any extra marks be rewarded for either choice of CSS use.

**REMINDER:** Proper formatting in HTML, CSS and JavaScript codes are to be observed.

### Submission Guidelines

1. Compress all files pertaining to the assignment (inclusive of HTML files, PHP files, images and any other required files) into a zip file before submission. The zip file must be named as "its30605\_assignment2\_<student\_id>.zip". For example, a student with ID 0321342 will name his/her compressed zip file containing all deliverables as "its30605\_assignment2\_032142.zip".
2. Make all submissions to the designated submission link in TImeS.

### Marks Breakdown and Assessment Contribution

Criteria	Awarded Marks (%)
Task 1: HTML file should contain all the required HTML elements.	10
Task 2: HTML file should contain CSS with pseudo-classes in embedded style.	10
Task 3: HTML file should contain functioning JavaScript code with the required function.	10
Task 4: HTML file should contain functioning JavaScript code for performing the required actions.	10
Task 5: Apply more CSS to improve the webpage's presentation	10
Proper script formatting (proper indentation and structure)	10
<b>TOTAL</b>	<b>60</b>

Total marks will be scaled to 20% for assessment contribution.

### Submission Deadline

Week 9 (October 25, 2020), 12:00 a.m. (+1 hour tolerance)

- Marks are deducted by 5% for each calendar day from the given deadline. Any submission at a date exceeding **FIVE (5)** days from the stipulated deadline will be given no regard of any form, thus no marks will be given (refer to **Non-Submission of Assignment** in the Module Information Booklet).
- Barring extenuating circumstances, no marks are awarded for submission of any kind after the seventh calendar day from the given deadline. Late submissions in the form of hard copies will not be accepted.

### Plagiarism

HTML and CSS scripts should not resemble stark resemblance to another person's assignment report. As you are assessed on the decisions you make on crafting and styling a website, you are strongly advised not to share the same styling of web pages with each other.

- Marks are capped at 30% immediately for both parties involved in a plagiarism act, separate from any mark deduction due to tardiness