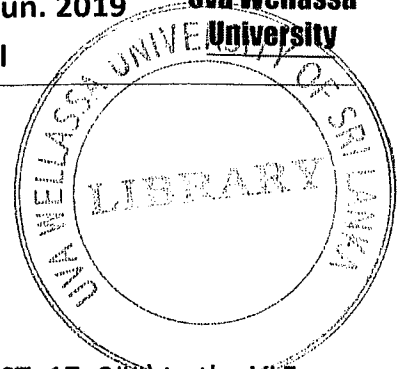


Uva Wellassa University of Sri Lanka
Faculty of Science and Technology
Department of Computer Science and Technology
100 level 2nd Semester Examination – Dec. 2018/Jun. 2019
CST123-2 Web Application Development I



Uva Wellassa
University



Instructions to candidates

Part C

Number of questions: Two (02)

Answer all questions

Duration: Two (02) hours

Mark allocation: 50

Upload all the files as a zipped folder with your registration number (CST_17_0##) to the VLE

1. You are supposed to develop a price calculator for a supermarket as given in figure 1.
 - a. Create an HTML document to display the list of items, unit price and the quantity as a table. You have to use text boxes for **Unit Price**, **Quantity** and **Subtotal**, where value of text boxes of unit price will have the given values. The text boxes in **Unit Price** and **Subtotal** fields are disabled to prevent user inputs. Only the text boxes in **Quantity** field are allowed to fill by the user. Add a **Submit** and **Clear** buttons in order to submit/clear the fields you created.

(10 mark)
 - b. Define the following CSS rules for the above form to display the invoice as given in figure 1.
 - i. Set the font style (family) of the entire document to "Consolas".
 - ii. Format the title with 30px red color fonts having 100px space from left side.
 - iii. Format the table with collapse border.
 - iv. Format the table borders with 1px solid blue line.
 - v. Leave 3px space between table borders and the text
 - vi. Align the content of textboxes to the right side and make the textboxes 100px in size.
 - vii. Set the background color of submit button to green.
 - viii. Leave 20px space from left side of the buttons.
 - ix. Assign id for all the textboxes you created.

Hint: Unit Price textboxes – u1...u10, Quantity – q1...q10, and Subtotal – s1...s10
 - x. Assign zero (0) as the default value for **Quantity** and **Subtotal** textboxes.

(15 mark)

2. Write necessary JavaScript function(s)/ jQuery functions to perform the calculation in the invoice you created.

- a. Write a JavaScript function called **subTotal()** which performs the calculation of subtotal and grand total once the user click on **Submit** button.

When the user click on the Submit button, subtotal for each item should be calculated and displayed in subtotal text boxes.

Hint: Subtotal = Unit Price x Quantity

Grand total must be calculated and displayed in grand total text box.

Hint: Grand Total = Summation of Subtotals

parseFloat() can be used to convert integer/text values to float values.

variable_name.toFixed(2) can be used to set decimal points.

You may use **getElementById('q'+ i).value** to access the values of textboxes in a **for** loop.

(25 mark)

ABC Supermarket

Item	Unit Price	Quantity	Subtotal
Bread	120.00	2	240.00
Milk Powder 400g	325.00	1	325.00
Sugar 1kg	115.00	1	115.00
Oil 1l	525.00	1	525.00
Egg	18.00	20	360.00
Butter	350.00	2	700.00
Carrot 1kg	180.00	2	360.00
Soap	48.00	6	288.00
Potatoes 1kg	120.00	1.5	180.00
Biscuit	120.00	1	120.00
Grandtotal			3213.00
		Clear	Submit

Figure 1

Note: It is not necessary to use external libraries. However, offline jQuery library is available in the VLE.

