

Web Development Client Side

Lab 06

JavaScript and jQuery

You need to be present in the lab to get a mark

Objective:

1. Use JavaScript and jQuery to solve the given exercises.

File Setup

1. Create a lab06 folder in your WebDevCS folder
2. Create a js folder in lab06 folder
3. Save any JavaScript to a file in the js folder, ie use external scripts for exercise 1.
(Ensure that you link to your .js files correctly)

File Submission

Zip your files into lab4<studentnumber>.zip and submit to Moodle.

Exercise 1. shopCart.html, shopCart.js

Save all js functions in a separate file called shopCart.js

Order Form to purchase items:

The purpose of this exercise is to allow the user to purchase various items.

The images and prices for each item should be displayed on a form.

It should also display the total cost of purchase per item and the overall total.

1. Create a Form that allows the user to purchase three items.
2. The form should display an image, price, quantity field and total field for each item.
3. It should also display an overall total field.
4. When the quantity is input, the total price for that particular item is displayed, and the grand total (at the bottom of the form) for all purchases.
5. When the user presses the submit button, an alert popup appears that displays the total amount
6. The user must be able to select from at least 3 items.

HTML

- Create a form with appropriate buttons.
- Insert headings and images
- Use CSS to align the items.
- Show images associated with each item.
- Display the price of each item in euros.
- Create input boxes for the user to insert a quantity.
- Create input boxes which are used to display a subtotal for each item.
- Create an input box that is used to display the grandtotal.
- Allow the user to enter the quantity they wish to buy (maximum quantity = 100).
- When the user enters the quantity, a function is called which calculates the cost of buying the quantity entered * price of the item. This is displayed in the Total column.
- The above process is repeated for each item when the user enters a quantity.
- The grand total is continuously updated and is displayed in the final row of the output.

JAVASCRIPT

- Create the function which is called when the user enters a quantity in the form.
 - Set up the variables that you need --- price, quantity and subtotal of each item
 - For each item
 - If the quantity entered is greater than zero, retrieve the value from the form
 - Calculate the subtotal for the item
 - Insert the subtotal for the item in the total column on the form
 - Recalculate the grandTotal for each item and display it in the grandTotal field. (This grandTotal is continually updated).
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- Create a second function that is called when the user submits the form.
 - This function displays an alert box which states the amount due.

A sample solution is as follows:

Design an individual solution using a different company and products:


GameStop
Power To The Players

Please make your selections from the following items!

ITEM	QTY	PRICE	TOTAL
 Nintendo Switch	<input type="text"/>	€300	€ <input type="text"/>
 Xbox Series X	<input type="text"/>	€540	€ <input type="text"/>
 Playstation 5	<input type="text"/>	€590	€ <input type="text"/>
TOTAL			€ <input type="text"/>

Exercise 2. jQueryexamples.html

The purpose of this exercise is to demonstrate various jQuery selectors, events and effects. Use jQuery within one html file to achieve the following tasks, ie use jQuery chain functions within the ready function – (refer to slide 45 Lecture 6)

- Create a HTML file with heading text 'Welcome to my Web Site'
Add some paragraph text 'Make me disappear'
When the user clicks on 'Make me disappear', the text disappears
- Add an image(use an image from the Web, must be unique to you) and a button 'Hide Image' so that when the user clicks on this button the image disappears.
- Add a second button 'Show Image', when the user clicks on this image, the image is displayed.
- Add a panel with the Heading "w3Schools jQuery" with a lightgreen background
When the user clicks on this panel a second panel appears displaying the text "Try out the great jQuery examples on our website".
(Refer to W3schools - jQuery Slide - https://www.w3schools.com/jquery/jquery_slide.asp)

The initial screen should display as follows (use a different image):

