

5.3 Activity: Module 5 practical exercise

Purpose

In this module's exercises, you will implement HTML forms to capture user data and design a user-friendly and accessible HTML form. Ensure that you have first completed [4.5 Activity: Module 4 practical exercise](#)

[\(https://canvas.westernsydneyonline.edu.au/courses/1261/pages/4-dot-5-activity-module-4-practical-exercise\)](#) before completing Exercise 2.

Both Exercises 1 and 2 will be assessed as part of [Assignment 2A: Practical exercise set 1 \(https://canvas.westernsydneyonline.edu.au/courses/1261/assignments/15051\)](#).

Do not forget to upload the solution of this exercise to your TWA website in the folders as indicates. Make sure that you **test** and **validate** the pages using the [W3C validation tool \(https://validator.w3.org/\)](#) (W3C, 2013) and [CSS validator \(https://jigsaw.w3.org/css-validator/\)](#) (W3C, 2009).

Task

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Step 1: Create a JavaScript file named quoteValidation.js in the practicals/javascript folder on your TWA website.

Step 2: Link the quoteValidation.js file to exercise1.html in the practicals/week5 folder using the appropriate HTML tag in the head section of the HTML file.

Step 3: Write JavaScript code in quoteValidation.js to perform the following functionality outlined in sub-tasks 1–4 for the form you implemented in exercise1.html.

Note: All of the functionality **must** be achieved via JavaScript and **not** via HTML5 form validation attributes, nor by JQuery.

Functionality task 1

The quote form is **not allowed to submit** if there are any errors in the user input. The user input rules are as follows:

A. Quote date:		Required format of dd/mm/yy
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B. Quoted by:		
	i. Staff number	Required, must start with 3 alpha characters followed by 4 numeric digits (e.g. CUL1998)
	ii. First name	nil
C. Customer details:		
	iii. Title	nil
	iv. First name	Required, alphabetic, space [], hyphen [-] characters only
	v. Surname	Required, alphabetic, space [], hyphen [-] characters only
	vi. Street address	Required, number, alphabetic, space [], hyphen [-] and slash [/] characters only
	vii. Suburb	Required, alphabetic, space [], hyphen [-] characters only
	viii. Postcode	4 numeric digits
	ix. Phone number	10 numeric digits
	x. Email	Valid email format
D. Product details:		
	xi. Product UI	Required
	xii. Product name/description	Any text but no more than 60 characters
	xiii. Quantity	Positive numbers only, maximum value of 20
	xiv. Unit price	Positive numbers only
	xv. Deposit paid	Zero and positive numbers only, cannot exceed total
E. Installation notes		nil
F. Requested installation date		Format of dd/mm/yy


Calculations must automatically update based on value data entered by the user in the relevant inputs. The calculations are as follows:

- A. line total: calculated automatically as quantity multiplied by unit price
- B. subtotal: calculated automatically as the sum of all line totals
- C. GST: calculated automatically as 10 percent of subtotal
- D. total: calculated automatically as subtotal plus GST
- E. calculated automatically as total less deposit.

Functional task 3

When errors occur in user input the user must be alerted to these errors through appropriate **inline messages** (**not** alert boxes). You will need to add some appropriate CSS rules to quoteForm.css as well as modifying the HTML in exercise1.html to accommodate for the display of these inline messages.

Functional task 4

When there are no user input errors, the form should be allowed to be submitted to the form action <https://twaoes.cdms.westernsydney.edu.au/twainfo/form.asp> 
(<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Ftwaoes.cdms.westernsydney.edu.au%2Ftwainfo%2Fform.asp&data=04%7C01%7CcBurgio%40oes.edu.au%7Cf25ddf3112cb4b8adc3c08d9468f8e3a%7C57d289898c4541189cde8a03712e508d%7C0%7C0%7C637618404645173179%7CUnknown%7CTWFPbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C1000&sdata=E5cD4JDhkqSHXf3KY2GXGJ66%2BCrrjj207Z5sKG%2FCzX8%3D&reserved=0>).

Step 4: Upload your solution to your TWA website in the practicals/Week5 folder. Test and validate the pages.