

# TRIMESTER 2 2023 COSC260 Web Programming























### Question 27

Answer saved

Marked out of 1.00

Flag question

Identify ONE web programming principle or technique that you understand and can apply with confidence. You MUST have learned your chosen principle or technique in this unit.

One web programming principle that I have understand is **responsive design** and can apply with confidence.

### Question 28

Answer saved










Marked out of 10.00

Flag question

a) Describe this principle or technique, explaining why it was important in your implementation of at least ONE of your assignments (2 marks)

b) Identify and explain at least TWO approaches, methods or features that are used to implement this principle or technique. For each, you MUST provide specific details (including code snippets where relevant) illustrating HOW and explaining WHY you implemented the principle/technique in this manner in at least ONE of your assignments. (8 marks)

**Note:** no marks will be awarded for principles, techniques or methods not covered in this unit.



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a) In my assignment 1's implementation of responsive design was important since it makes sure that the webpage is accessible and easy to use regardless of the device and screen being used to see it. Responsive design is essential to reach more people and offer a smooth user experience as people access online content from a variety of devices with different screen sizes and resolutions.

b) The two approaches are:

### 1) Media Query

Media queries are used to dynamically apply styles to items based on the user's device's specifications, usually using the viewport width. It makes sure that styles are only applied when the prerequisites are satisfied, enabling distinct styling for various screen sizes.

The code snippets from my assignment 1 for media query is pasted below:

### Question 29

Answer saved

Marked out of 7.00

Flag question

a) Identify ANOTHER web programming principle or technique that you have mastered in this unit.  
(1 mark)

b) Describe this principle or technique, explaining why it was important in your implementation of at least ONE of your assignments. (2 marks)

c) Identify and explain ONE approach, method or feature that is used to implement this principle or technique. You MUST provide specific details (including code snippets where relevant) illustrating HOW and explaining WHY you implemented the principle/technique in this manner in at least ONE of your assignments. (4 marks)

**Note:** the principle or technique referred to in your response MUST be different to the principle/technique you used to respond to the previous question. NO marks will be awarded for principles, techniques or methods not covered in this unit.

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## Quiz navigation

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Time left **0:25:37**

a) Another web programming principle that I have understand is **validation on client-side**.  
 b) In the context of my assignment 2, the principle of client-side validation was important as it ensures that the user has filled out the form correctly before it is submitted, thus enhancing the user's experience, and reducing the load on the server wherever necessary. Client-side validation is the process of verifying user input before it is submitted to the server, often within the user's browser to increase the efficiency of the server and its response.  
 c) In my assignment 2, client-side validation was implemented using a combination of Event Listeners, Conditional Statements, and Pattern Matching. Out of these, I will describe **pattern matching**.  
 My assignment 2 uses regular expressions to validate the format of the user's input in the email input text field.  
 The code snippets from my assignment 2 for pattern matching is pasted below:

#### Question 30

Answer saved

Marked out of 4.00

Flag question

- a) Identify ONE web programming principle or technique that you feel you don't have a good grasp on. You MUST have learned your chosen principle or technique in this unit. (1 mark)
- b) In your own words, describe this principle or technique to the best of your ability, identifying any gaps in your knowledge. You MUST provide at least ONE example of how you attempted to use it in a tutorial or in an attempt to complete a component of one of your assignments. (3 marks)

a) ONE web programming principle or technique that I feel I don't have a good grasp on is **making asynchronous requests**.  
 b) The technique of "making asynchronous requests" in my assignment 3, mostly has to do with sending network requests that don't pause the program's main execution thread so that other processes may carry on while the request is being processed. This is significant in web development, because maintaining a responsive user interface is essential. A bad user experience would result if the queries were synchronous, and the user interface became unusable.  
 In my assignment 3, while making an asynchronous request using jQuery's ajax method, It makes a POST request to a URL (stored in the variable url).  
 It sends data serialized from a form with the ID registration.  
 If the request is successful, it logs the password received from the server to the console and

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