Brain Web-Development-Applications Exam - Valid Web-Development-Applications Study Guide

WGU C777 – Web Development Applications – Notes

1. – Hyper-Text Markup Language

- Study Questions.

    1. What is the web development trifecta?

        - HTML, CSS, JS.

    2. What is the role of HTML in the web trifecta?

        - HTML simply creates and structures the site's contents.

    3. What is the role of CSS in the web trifecta?

        - CSS adds style and formatting to the structures.

    4. What is the role of JavaScript in the web trifecta?

        - JS defines the behavior of the site into something that users can interact with.

    5. How has HTML evolved to support modern design techniques?

        - HTML5 offers a wider range of development capabilities not possible in prior iterations.
        - Also, third-party software like Adobe Flash is no longer required.

    6. Why is the doctype important?

        - Because it is used to inform the browser about the version of HTML that the site is written in.

    7. How is an ordered list created? An unordered list?

        - Unordered,

            - Item
            - Item
            - Item
            - Item

        - Ordered,

            1. First Item

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WGU Web-Development-Applications Exam Syllabus Topics:

Topic	Details
Topic 1	- JavaScript Programming for Beginners: This section of the exam measures skills of Entry Level Web Programmers and introduces foundational JavaScript concepts essential for web development. The content includes variables, functions, loops, and events, with a focus on writing scripts that solve common problems in web applications. Learners also practice updating and manipulating web pages dynamically using JavaScript in practical scenarios.

Topic 2	• Introduction to Front End Engineering: This section of the exam measures skills of Front End Developers and covers advanced techniques in HTML and CSS along with the core functionalities of web browsers. Candidates are evaluated on their understanding of creating web layouts and structures and their ability to apply best practices in web design. This section also checks skill in JavaScript programming and the DOM API and evaluates knowledge of building interactive websites with structured, readable code.
Topic 3	• Front End Engineering with React: This section of the exam measures skills of React Developers and focuses on the use of React in building responsive and modern user interfaces. It encompasses the creation of reusable components, managing state, and handling interactions efficiently within web applications. The section also includes connecting with APIs and integrating React with other technologies for full feature front end solutions.?

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Valid Web-Development-Applications Study Guide, Web-Development-Applications Exam Duration

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WGU Web Development Applications Sample Questions (Q61-Q66):

NEW QUESTION # 61
Which HTML tag should a developer use to create a drop-down list?

- A. <Option>
- B. <Output>
- C. <Section >
- D. <Select>

Answer: D

Explanation:
The<select>tag is used in HTML to create a drop-down list. It is used in conjunction with the<option>tags to define the list items within the drop-down menu.
* Purpose of<select>: The<select>element is used to create a control that provides a menu of options.
The user can select one or more options from the list.
* Structure of Drop-down List:
* The<select>element encloses the<option>elements.
* Each<option>element represents an individual item in the drop-down list.
* Usage Example:
<label for="cars">Choose a car:</label>
<select id="cars" name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat">Fiat</option>
<option value="audi">Audi</option>
</select>
In this example, the<select>tag creates a drop-down list with four options: Volvo, Saab, Fiat, and Audi.
* Attributes of<select>:
* name: Specifies the name of the control, which is submitted with the form data.
* id: Used to associate the<select>element with a label using the<label>tag'sforattribute.
* multiple: Allows multiple selections if set.
:
MDN Web Docs on<select>

NEW QUESTION # 62
What should be used to request and Update data in the background?

- A. API
- B. Canvas
- C. DOM
- D. AJAX

Answer: D

Explanation:
AJAX (Asynchronous JavaScript and XML) is used to request and update data in the background without reloading the web page.
* AJAX Overview:
* Purpose: Allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes.
* Benefits: Provides a smoother user experience by avoiding full page reloads.
* Example:
* Using XMLHttpRequest:
var xhr = new XMLHttpRequest();
xhr.open("GET", "data.json", true);
xhr.onreadystatechange = function() {
if (xhr.readyState === 4 && xhr.status === 200) {
var data = JSON.parse(xhr.responseText);
console.log(data);
}
};
xhr.send();
* References:
* MDN Web Docs - AJAX
* W3Schools - AJAX Introduction

NEW QUESTION # 63
Given the following CSS code:

How many seconds elapse before the font-size property begins to increase when a user hovers a mouse pointer over the delay element?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:
The CSS transition-delay property specifies how long to wait before starting a property transition. In the given CSS code, the transition-delay is set to 2s.
* CSS Transition Properties:
* transition-property: Specifies the CSS property to which the transition is applied (font-size in this case).
* transition-duration: Specifies how long the transition takes (4s).
* transition-delay: Specifies the delay before the transition starts (2s).

Example:
* Given HTML:
<div id="delay">Hover over me</div>
* Given CSS:
#delay {
font-size: 14px;
transition-property: font-size;
transition-duration: 4s;
transition-delay: 2s;
}
#delay:hover {
font-size: 36px;
}
Explanation: When a user hovers over the element withid="delay", it will wait for 2 seconds before the transition effect onfont-sizestarts.
References:
* MDN Web Docs -transition-delay
* W3C CSS Transitions

NEW QUESTION # 64
Given the following code:
```html
<form name="Fcrm" action="/aczion.asp" onsubmit="return validateForm()" method="post"> Name: <input type="text"
name="name">
<input type="submit" value="Submit">
</form>
```
Which type of form validation is used?

* A. CSS
* B. HTML
* C. JavaScript
* D. VBScript

Answer: C

Explanation:
> "The `onsubmit="return validateForm()"` attribute calls a JavaScript function when the form is submitted. If the function returns `false`, submission is prevented."
>
> This is an example of client-side JavaScript validation. VBScript is outdated and IE-specific; CSS is for styling, and HTML-only validation would not use a JavaScript function.
References:
* MDN Web Docs: HTMLFormElement.onsubmit
* JavaScript Form Validation Guide

NEW QUESTION # 65
Which HTML5 attribute specifies where to send the form data for processing a form is submitted?

* A. Action
* B. Target
* C. Enctype
* D. Method

Answer: A

Explanation:
Theactionattribute in the<form>element specifies the URL where the form data should be sent for processing when the form is

submitted.
* Action Attribute: This attribute defines the endpoint that will handle the submitted form data.
* Usage Example:
```
<form action="/submit-form" method="post">
<input type="text" name="username">
<input type="submit" value="Submit">
</form>
```
Here, the form data is sent to the/submit-formURL when submitted.
:
MDN Web Docs on<form>actionattribute
W3C HTML Specification on Forms

NEW QUESTION # 66
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