**jQuery Interview Question**

Q1. **What is jQuery?**

**Answer**: jQuery is a fast, lightweight, and feature-rich JavaScript library. It simplifies tasks like HTML document traversal, event handling, animation, and AJAX interactions, making it easier to manipulate the DOM and handle cross-browser compatibility issues.

**Q2**. **What are some advantages of using jQuery?**

* + Simplifies DOM manipulation.
  + Cross-browser compatibility.
  + Easy to make AJAX requests.
  + Supports animations and effects.
  + Provides a convenient syntax for selecting elements.

Q3. **What is the use of $(document).ready() in jQuery?**

**$(document).ready()** is a jQuery function that is used to execute code when the DOM (Document Object Model) is fully loaded and ready to be manipulated.

This is important because it ensures that the JavaScript code runs only after the HTML document has been completely loaded, preventing errors that can occur if you try to manipulate elements that are not yet available in the DOM.

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Q4. **What is the difference between $(document).ready() and window.onload?**

**$(document).ready**() is triggered as soon as the DOM is fully loaded, which is faster since it doesn't wait for images and other resources.

**Window.onload :** is a JavaScript event that is triggered when the entire web page, including all dependent resources such as images, stylesheets, and scripts, has fully loaded.

This means that the **onload** event will fire only after the complete page is ready for interaction, including all elements and resources.

Q5. **What is the $ function in jQuery?**

* **Answer**: The $ function is an alias for the jQuery() function. It is used to select DOM elements, create new elements, or wrap existing elements in a jQuery object for further manipulation.

**Q6. Explain jQuery selectors and how they work.**

* Answer: jQuery selectors are used to select DOM elements. They are similar to CSS selectors, and can select elements by id, class, element type, etc. Example:

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**Q7.** **What is the difference between .html() and .text() in jQuery?**

.html() retrieves or sets the HTML content of an element.

.text() retrieves or sets the text content, excluding any HTML tags.



Q.8 **What is the difference between .on() and .bind() in jQuery?**

 **.bind()** is used to attach event handlers to elements, but it doesn’t support event delegation.

 **.on()** is a more flexible method introduced in jQuery 1.7, which supports event delegation and allows attaching multiple event handlers.

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Q9. **What is event delegation in jQuery?**

* **Answer**: Event delegation is a technique in jQuery where an event listener is attached to a parent element, and events are handled for child elements that match a specific selector. This is particularly useful for dynamically added elements. Example:

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Q10. **What is the $.noConflict() method in jQuery?**

when you are using multiple JavaScript libraries that may use the **$** symbol as a shortcut for their own functions or objects, can cause conflicts.

By using **$.noConflict()**, you can avoid these issues.

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Q11. **What are jQuery deferred objects and promises?**

* **Answer**: A **deferred object** in jQuery is used for managing asynchronous operations. It provides methods like .resolve(), .reject(), and .promise() to control the flow of asynchronous code.
* Deferred objects are especially useful for chaining AJAX calls or handling multiple asynchronous operations. Example:

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