

Assignment-3 for jQuery

Subject: CSW1 (CSE 2141)
Session: Sep 2024 to Jan 2025
Branch: CSE
Section: All
Course Outcomes: CO3

Learning Levels: Remembering (L1), Understanding (L2), Application (L3), Analysis (L4)
Evaluation (L5), and Creation (L6)

| Q no. | Questions | Learning Levels |
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| Q1. | Create a webpage using jQuery that contains three buttons to change the background color of the entire page to red, blue, or green, depending on which button is clicked. Additionally, add a separate button that toggles the visibility of all <code><div></code> elements on the page. When the toggle button is clicked, the <code><div></code> elements should either be shown or hidden based on their current visibility state. Ensure that the background color change and visibility toggle functionalities work smoothly together. | L1, L2 |
| Q2. | Write a jQuery program to perform the following actions on a <code><div></code> element: when the user clicks on the <code><div></code> , its text should change to 'Clicked!'; when the user double-clicks, the background color should change to orange; when the user hovers (mouse enters) over the <code><div></code> , the border color should change to green; and when the user moves the mouse away (mouse leaves), the border color should revert to black. The <code><div></code> should initially have a light blue background, a black border, and centered text. | L2, L3 |
| Q3. | Write a jQuery program that starts an animation on a <code><div></code> element when a 'Start' button is clicked and stops the animation when a 'Stop' button is clicked. The animation should increase the width of the <code><div></code> from 100px to 400px over 2 seconds. If the 'Stop' button is clicked during the animation, the <code><div></code> should immediately stop resizing at its current width. | L2, L3 |
| Q4. | Write a jQuery program with two buttons: one button labeled 'Fetch Text' to retrieve and display the text content of a <code><p></code> element using an alert, and another button labeled 'Fetch HTML' to retrieve and display the HTML content of a <code><div></code> element using an alert. | L2, L3 |
| Q5. | Write a jQuery program to manipulate an unordered list (<code></code>) containing the items 'Getting Started with Full Stack,' 'HTML,' and 'CSS.' Use the <code>append()</code> method to add a new list item 'CSS' at the end of the list, the <code>prepend()</code> method to add 'Introduction to Full Stack Development' at the beginning, the <code>after()</code> method to insert a paragraph 'Topics updated' immediately after the list, and the <code>before()</code> method to add a heading 'List of Topics Covered' immediately before the list. | L2, L3 |

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| Q6. | <p>Write a jQuery program that lets a user apply one of two classes ('highlight' and 'dim') to a <div> element by clicking two different buttons. The 'highlight' class should set the background color of the <div> to yellow, while the 'dim' class should reduce the opacity of the <div>. Ensure that clicking the 'Add Highlight' button applies the 'highlight' class, and clicking the 'Add Dim' button applies the 'dim' class, with the previously applied class being removed before the new one is added.</p> | L3, L4 |
| Q7. | <p>Create a webpage that contains a table displaying student data and an 'Add Row' button. The 'Add Row' button should add a new row with data from input fields each time it is clicked. Additionally, include a 'Change Color' button to change the text color of all table data to red.</p> | L3, L6 |
| Q8. | <p>Create a webpage that includes a text box and a button. Write jQuery code that removes the element with an ID matching the text entered in the text box when the button is clicked. The webpage should initially contain a <div> with paragraphs, each having a unique ID.</p> | L3, L4 |
| Q9. | <p>Write code to display a popup box without using the JavaScript alert() function.</p> | L4, L6 |
| Q10. | <p>Create a sign-up form with the following requirements:</p> <ol style="list-style-type: none"> 1. Users should be able to see hover states for all interactive elements on the page. 2. An error message should be displayed when the form is submitted if: <ul style="list-style-type: none"> o Any input field is empty. o The email address is not formatted correctly. <p>Hints:</p> <ol style="list-style-type: none"> 1. To check if a field is empty, you can use the following code <code>var a = \$("#fieldId").val(); if(a == "") { // Field is empty }</code> 2. In HTML5, you can use the type attribute set to email to validate email addresses. | L4, L6 |
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