

Full Stack Application Development with Cloud Computing

Module 2 – Front-End Development Tools, Technologies and Frameworks

Lab - 6

Unit 3 - JavaScript and DOM Manipulation

Topic: JQuery Selector

Ex. 1: Design a simple HTML page that showcases the usage of jQuery selectors. Include a paragraph element with the text "This is a paragraph." Beneath it, add a button labeled "Change Color." When the button is clicked, the background color and text color of the paragraph should toggle between their default state and a selected state. Utilize jQuery to target the elements and handle the click event.

```
<!DOCTYPE html>
<html>
<head>
  <title>jQuery Selector Example</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    /* Styling for the selected state */
    .selected {
      background-color: #3498db;
      color: #fff;
    }
  </style>
</head>
<body>
  <div>
    <h2>jQuery Selector Example</h2>
```

```

<p id="demoText">This is a paragraph.</p>
<button id="changeColorButton">Change Color</button>
</div>

<script>
$(document).ready(function() {
    // Select the paragraph and button using jQuery
    var demoText = $("#demoText");
    var changeColorButton = $("#changeColorButton");

    // Add a click event handler to the button
    changeColorButton.click(function() {
        // Toggle the 'selected' class to change color
        demoText.toggleClass("selected");
    });
});
</script>
</body>
</html>

```

Output:

jQuery Selector Example

This is a paragraph.

Change Color

jQuery Selector Example

This is a paragraph.

Change Color

Practice Question

Ex. 2: Develop a webpage's user experience using jQuery selectors. Design a basic HTML page with the following elements and objectives:

- **Highlight Selection:** Create an unordered list () with three list items () containing different animal names (e.g., "Lion," "Elephant," "Giraffe"). When a user clicks on an animal name, apply a highlight by changing the background color of the selected list item.
- **Toggle Paragraph:** Include a button element and a paragraph (<p>) below it. The paragraph should initially be hidden. When the button is clicked, toggle the visibility of the paragraph using jQuery.