

Full Stack Application Development with MS Azure Cloud

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

Lab Practical Manual

Unit 3 - JavaScript and DOM Manipulation

Topic: Handling DOM using JavaScript - Solved Question

- Lab 7: Design an HTML document that contains three sections, each demonstrating a different aspect of DOM manipulation and event handling using JavaScript.
- 1. "DOM Manipulation" section, there is a button and a paragraph. Button's event listener is there and it changes the text content of the paragraph when clicked.
- 2. "Creating Elements" section, there should be a button and an unordered list. The event listener attached to the addButton creates a new list item and appends it to the itemList when clicked.
- 3. Display the button effect by clicking the button.



```
<div>
    <h2>Creating Elements</h2>
    <button id="addButton">Add Item/button>
    ul id="itemList">
  </div>
  <div>
    <h2>Event Handling</h2>
    <button id="eventButton">Click Me</button>
    </div>
  <script>
    // DOM Manipulation
                         changeTextButton
                                                            =
document.getElementById("changeTextButton");
    var outputText = document.getElementById("outputText");
    changeTextButton.addEventListener("click", function() {
       outputText.textContent = "Text Changed!";
    });
    // Creating Elements
    var addButton = document.getElementById("addButton");
    var itemList = document.getElementById("itemList");
    addButton.addEventListener("click", function() {
       var li = document.createElement("li");
       li.textContent = "New Item";
       itemList.appendChild(li);
    });
    // Event Handling
```



```
var eventButton = document.getElementById("eventButton");
                   var eventOutput = document.getElementById("eventOutput");
                   eventButton.addEventListener("click", function() {
                     eventOutput.textContent = "Button Clicked!";
                   });
                </script>
              </body>
              </html>
Output:
                                   DOM Manipulation
                                   Change Text
                                   Initial Text
                                   Creating Elements
                                   Add Item
                                   Event Handling
                                   Click Me
                             DOM Manipulation
                             Change Text
                             Text Changed!
                             Creating Elements
                             Add Item
                                • New Item
                             Event Handling
                             Click Me
                             Button Clicked!
```

Unsolved Question:

Lab 8: JavaScript to dynamically create a new list item () element and add it to an existing unordered list () when a button is clicked. Provide a step-by-step explanation and include a code snippet to demonstrate the process.