**WEB DEVELOPMENT INTERNSHIP**

**WEEK #3**

**Task#1:-**

**Write a script to manipulate DOM elements.**

**HTML FILE:-**

<!DOCTYPE html>

<html>

<head><title>DOM Manipulation</title></head>

<link rel="stylesheet" href="style.css">

<body>

  <h2 id="heading">Hello!</h2>

  <button onclick="changeText()">Change Text</button>

  <script>

    function changeText() {

      document.getElementById("heading").innerText = "Text has been changed!";

    }

  </script>

</body>

</html>

**Task#2:-**

**Create a form with client-side validation.**

**HTML FILE:-**

<!DOCTYPE html>

<html>

<head><title>Form Validation</title></head>

<link rel="stylesheet" href="style.css">

<body>

  <form onsubmit="return validateForm()">

    Name: <input type="text" id="name"><br><br>

    Email: <input type="email" id="email"><br><br>

    <button type="submit">Submit</button>

  </form>

  <script>

    function validateForm() {

      let name = document.getElementById("name").value;

      let email = document.getElementById("email").value;

      if (name === "" || email === "") {

        alert("Both fields are required!");

        return false;

      }

      return true;

    }

  </script>

</body>

</html>

**Task#3:-**

**Implement a simple to-do list application.**

**HTML FILE:-**

<!DOCTYPE html>

<html>

<head><title>To-Do List</title></head>

<link rel="stylesheet" href="style.css">

<body>

  <h2>To-Do List</h2>

  <input type="text" id="taskInput" placeholder="New task">

  <button onclick="addTask()">Add</button>

  <ul id="taskList"></ul>

  <script>

    function addTask() {

      const task = document.getElementById("taskInput").value;

      if (task === "") return;

      const li = document.createElement("li");

      li.innerText = task;

      li.onclick = () => li.remove(); // Remove task on click

      document.getElementById("taskList").appendChild(li);

      document.getElementById("taskInput").value = "";

    }

  </script>

</body>

</html>

**Task#4:-**

**Create an interactive image slider.**

**HTML FILE:-**

<!DOCTYPE html>

<html>

<head><title>Image Slider</title></head>

<link rel="stylesheet" href="style.css">

<body>

  <img id="slider" src="https://via.placeholder.com/300x200?text=1" width="300">

  <br><br>

  <button onclick="prev()">Previous</button>

  <button onclick="next()">Next</button>

  <script>

    const images = [

      "https://via.placeholder.com/300x200?text=1",

      "https://via.placeholder.com/300x200?text=2",

      "https://via.placeholder.com/300x200?text=3"

    ];

    let index = 0;

    function next() {

      index = (index + 1) % images.length;

      document.getElementById("slider").src = images[index];

    }

    function prev() {

      index = (index - 1 + images.length) % images.length;

      document.getElementById("slider").src = images[index];

    }

  </script>

</body>

</html>

**Task#5:-**

**Use JavaScript to fetch and display data from an API**

**HTML FILE:-**

<!DOCTYPE html>

<html>

<head><title>API Fetch</title></head>

<link rel="stylesheet" href="style.css">

<body>

  <h2>Random User</h2>

  <button onclick="getUser()">Get User</button>

  <div id="userInfo"></div>

  <script>

    async function getUser() {

      const res = await fetch("https://randomuser.me/api/");

      const data = await res.json();

      const user = data.results[0];

      document.getElementById("userInfo").innerHTML = `

        <p>Name: ${user.name.first} ${user.name.last}</p>

        <img src="${user.picture.medium}">

      `;

    }

  </script>

</body>

</html>

**CSS FILE:-**

/\* General Page Styles \*/

body {

  font-family: Arial, sans-serif;

  background-color: #f9f9f9;

  margin: 30px;

}

h2 {

  color: #333;

}

/\* Section/Card Style \*/

.container {

  background: #fff;

  padding: 20px;

  margin-bottom: 30px;

  border: 1px solid #ccc;

  border-radius: 10px;

  box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.05);

}

/\* Input Fields \*/

input[type="text"],

input[type="email"] {

  padding: 8px;

  margin: 5px 0 10px;

  width: 250px;

  border: 1px solid #ccc;

  border-radius: 5px;

}

/\* Buttons \*/

button {

  padding: 8px 15px;

  background-color: #007BFF;

  color: white;

  border: none;

  border-radius: 5px;

  cursor: pointer;

  margin-top: 5px;

}

button:hover {

  background-color: #0056b3;

}

/\* To-Do List \*/

ul {

  list-style-type: none;

  padding-left: 0;

}

ul li {

  background-color: #e9ecef;

  padding: 8px;

  margin-top: 5px;

  border-radius: 5px;

  cursor: pointer;

}

/\* Images \*/

img {

  max-width: 100%;

  border-radius: 10px;

}

#userInfo img {

  margin-top: 10px;

}