

EXPERIMENT 6

AIM: Create dynamic content on a web page using HTML DOM – adding , deleting elements, moving elements, changing colors, fonts.

OBJECTIVE:

- To provide knowledge on developing web pages design and development.
- To understand how the HTML, CSS and JavaScript components of Bootstrap work.

OUTCOME:

Develop static web pages using HTML, CSS and Bootstrap.

Develop interactive web pages using JS.

Use React JS framework in web pages effectively.

PROGRAM CODE:

index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dynamic DOM Manipulation</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>

<body class="p-6">
  <div id="content" class="space-y-4">
    <button id="addElement" class="px-4 py-2 bg-blue-500 text-white rounded">Add Element</button>
    <button id="removeElement" class="px-4 py-2 bg-red-500 text-white rounded">Remove Element</button>
    <button id="moveElement" class="px-4 py-2 bg-green-500 text-white rounded">Move Element</button>
    <button id="changeStyle" class="px-4 py-2 bg-purple-500 text-white rounded">Change Style</button>
```

```

        <div id="container" class="p-4 border border-gray-300 rounded">
            <p id="element1" class="text-lg">This is a dynamic
element.</p>
        </div>
    </div>

    <script src="index.js"> </script>
</body>

</html>

```

index.js

```

document.getElementById('addElement').addEventListener('click', function
() {
    const newElement = document.createElement('p');
    newElement.textContent = 'New Element Added!';
    newElement.className = 'text-lg';
    document.getElementById('container').appendChild(newElement);
});

document.getElementById('removeElement').addEventListener('click',
function () {
    const container = document.getElementById('container');
    if (container.lastChild) {
        container.removeChild(container.lastChild);
    }
});

document.getElementById('moveElement').addEventListener('click', function
() {
    const container = document.getElementById('container');
    if (container.firstChild) {
        container.appendChild(container.firstChild);
    }
});

document.getElementById('changeStyle').addEventListener('click', function
() {
    const element = document.getElementById('element1');

```

```
element.style.color = element.style.color === 'red' ? 'black' : 'red';  
element.style.fontFamily = element.style.fontFamily === 'Arial' ?  
'Times New Roman' : 'Arial';  
});
```

OUTPUT:

Adding an element

Add ElementRemove ElementMove ElementChange Style

This is a dynamic element.
New Element Added!
New Element Added!
New Element Added!
New Element Added!
New Element Added!

Removing newly added elements

Add ElementRemove ElementMove ElementChange Style

This is a dynamic element.
New Element Added!

Moving an element

Add ElementRemove ElementMove ElementChange Style

New Element Added!
This is a dynamic element.

Changing style of an element

Add ElementRemove ElementMove ElementChange Style

New Element Added!
This is a dynamic element.