Subject code &	:	CSE304 &	Practical	 8	Academic Year	:	2024-25
Name		Full Stack Development					

Task - 8

Aim

Develop a simple web-based counter application that increments and decrements a counter value.

Code

```
Index.js
const express = require('express');
const app = express();
const path = require('path');
app.use(express.static(path.join(__dirname, 'public')));
let counter = 0;
app.get('/counter', (req, res) => {
res.json({ count: counter });
});
app.post('/increment', (req, res) => {
 counter++;
 res.json({ count: counter });
});
app.post('/decrement', (req, res) => {
 counter--;
 res.json({ count: counter });
const PORT = process.env.PORT || 3000;
app.listen(PORT, () => {
console.log(`Server is running on port ${PORT}`);
});
Index.html
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Counter App</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
 <div class="container">
  <h1>Simple Counter</h1>
  <div class="counter">
   <button id="decrement">-</button>
   <span id="counterValue">0</span>
   <button id="increment">+</button>
  </div>
 </div>
 <script src="/public/style.css"></script>
</body>
</html>
Style.css
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f9;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
 .container {
  text-align: center;
 }
 h1 {
  color: #333;
  margin-bottom: 20px;
 .counter {
  display: flex;
  justify-content: center;
  align-items: center;
  gap: 20px;
```

```
button {
  font-size: 2rem;
  padding: 10px 20px;
  cursor: pointer;
 }
 span {
  font-size: 2rem;
  width: 50px;
  display: inline-block;
Script.js
const counterValueElement = document.getElementById('counterValue');
const incrementButton = document.getElementById('increment');
const decrementButton = document.getElementById('decrement');
function updateCounterValue(newValue) {
counterValueElement.textContent = newValue;
fetch('/counter')
 .then(response => response.json())
 .then(data => {
  updateCounterValue(data.count);
 });
incrementButton.addEventListener('click', () => {
 fetch('/increment', { method: 'POST' })
  .then(response => response.json())
  .then(data => {
   updateCounterValue(data.count);
  });
});
decrementButton.addEventListener('click', () => {
 fetch('/decrement', { method: 'POST' })
  .then(response => response.json())
  .then(data => {
   updateCounterValue(data.count);
  });
});
```

