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

Task - 8

Aim

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

Code

server.js

```js
const express = require('express');
const bodyParser = require('body-parser');

const app = express();
const port = 3000;
const path = require('path');

app.use(express.static(path.join(__dirname, 'public')));
app.use(bodyParser.json());
let counter = 0;
app.get('/counter', (req, res) => {
  res.json({ counter });
});
app.post('/counter/increment', (req, res) => {
  counter += 1;
  res.json({ counter });
});
app.post('/counter/decrement', (req, res) => {
  counter -= 1;
  res.json({ counter });
});
app.listen(port, () => {
  console.log(`Server is running on http://localhost:${port}`);
});
```

index.html

```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>
</head>
<body>
```

```html
<h1>Counter: <span id="counter">0</span></h1>
<button onclick="incrementCounter()">Increment</button>
<button onclick="decrementCounter()">Decrement</button>

<script>
  async function fetchCounter() {
    const response = await fetch('/counter');
    const data = await response.json();
    document.getElementById('counter').innerText = data.counter;
  }

  async function incrementCounter() {
    const response = await fetch('/counter/increment', { method: 'POST' });
    const data = await response.json();
    document.getElementById('counter').innerText = data.counter;
  }

  async function decrementCounter() {
    const response = await fetch('/counter/decrement', { method: 'POST' });
    const data = await response.json();
    document.getElementById('counter').innerText = data.counter;
  }
  fetchCounter();
</script>
</body>
</html>
```
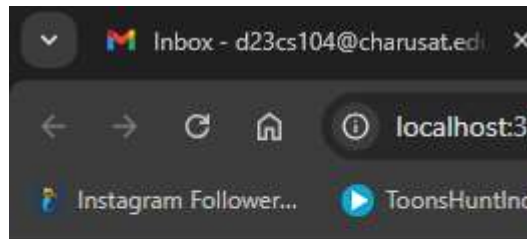
Output

Signature :