

Name: Patel Shivam S.

Enroll no: 21162101019

Sem: 5 Batch: 51 Branch: CBA

Sub: Microservices

Practical 2

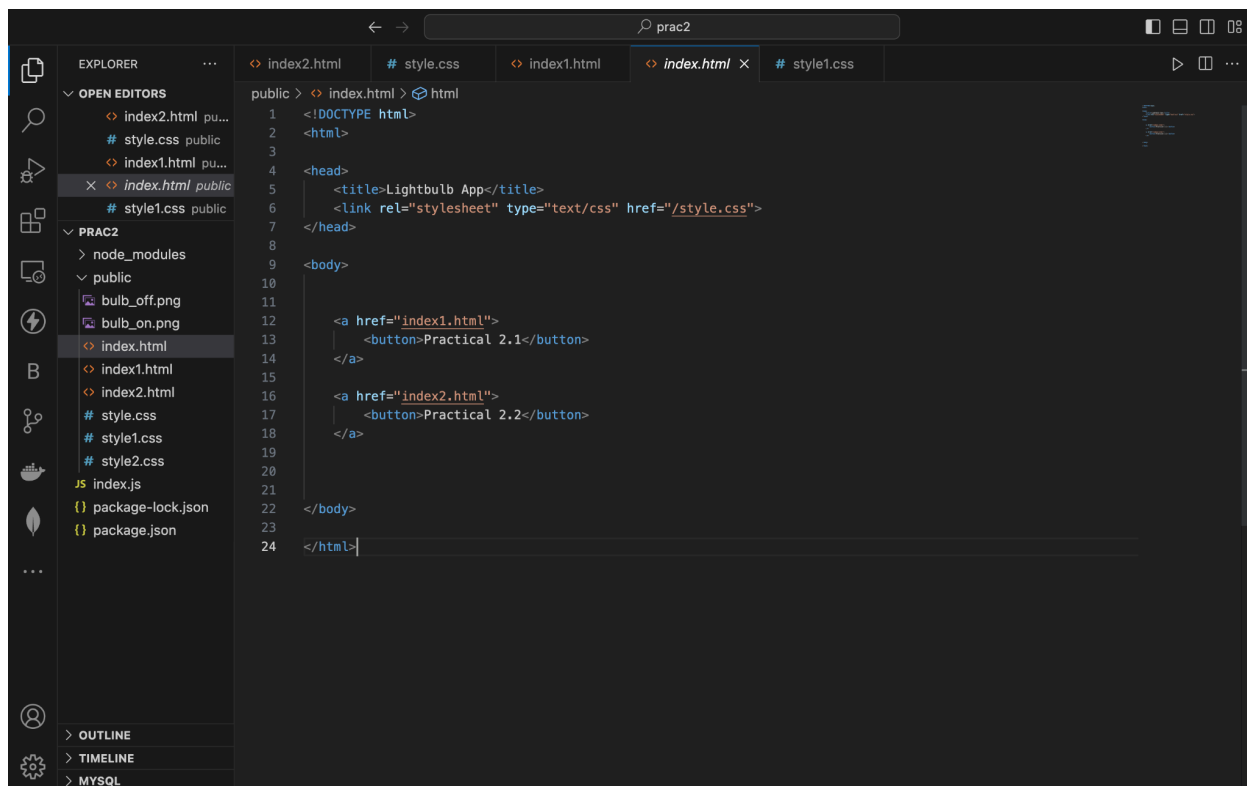
AIM: You have a requirement for deploying a NodeJS-based application on the local server. Implement it using a suitable code editor and deploy this application in the quickest way possible.

Practical 2.1: Develop a NodeJS application to create any website GUI (use HTML, CSS, JavaScript) using a suitable code editor Sample GUI should contain two buttons, with one button to turn ON the bulb provided in the user interface and a second button to turn OFF the bulb.

GITHUB LINK:

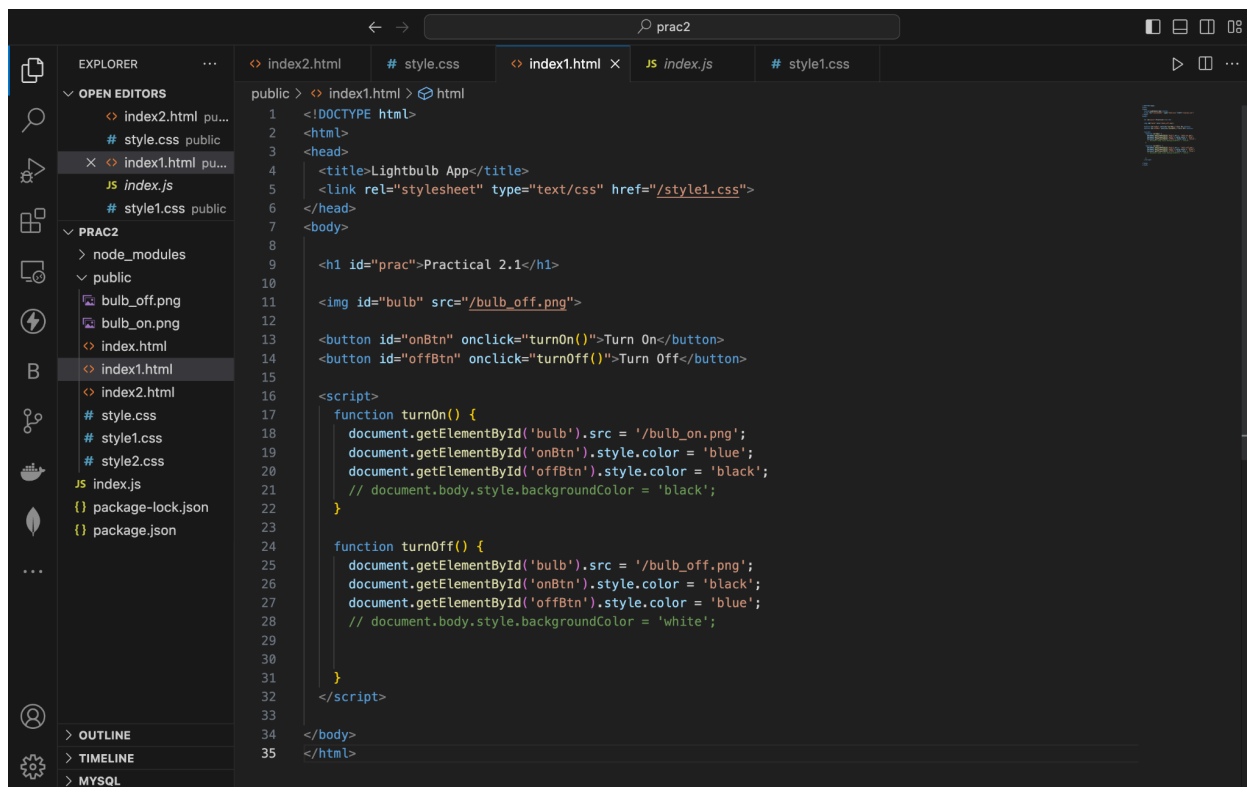
https://github.com/Shivam3783/microservice_practicals/tree/main/prac2

CODE:



This screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar is expanded to show the 'public' directory, which contains files like 'bulb_off.png', 'bulb_on.png', 'index.html', 'index1.html', 'index2.html', 'style.css', 'style1.css', 'style2.css', 'index.js', 'package-lock.json', and 'package.json'. The 'index.html' file is selected and its content is displayed in the main editor area. The code is a basic HTML document with a title 'Lightbulb App', a link to 'style.css', and two buttons: 'Practical 2.1' and 'Practical 2.2'.

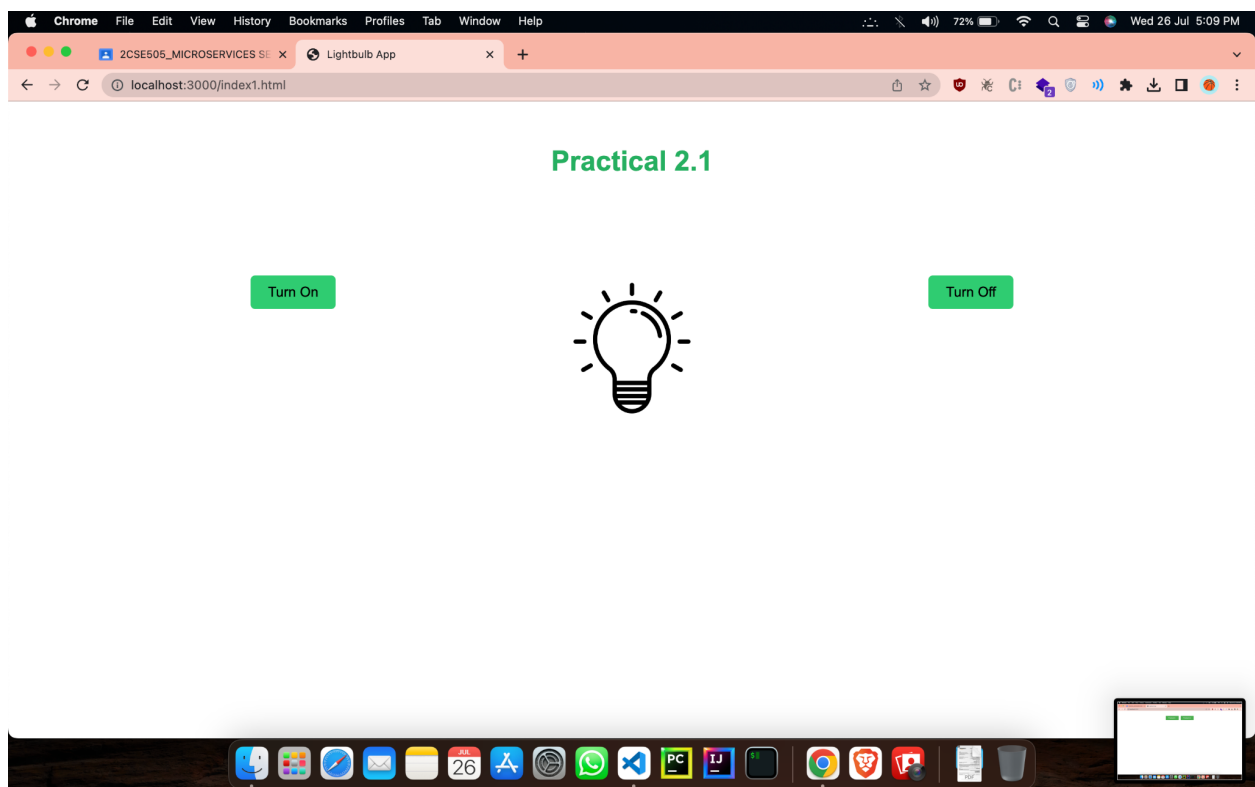
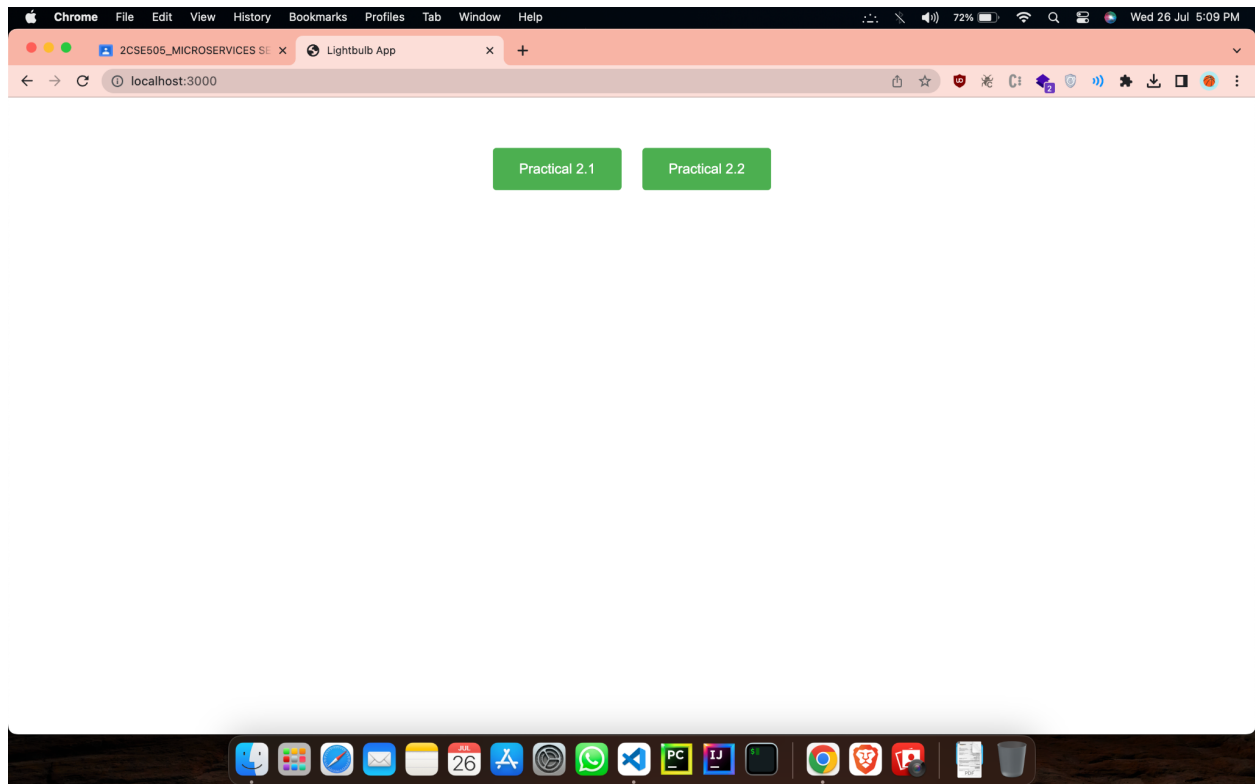
```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <title>Lightbulb App</title>
6   <link rel="stylesheet" type="text/css" href="/style.css">
7 </head>
8
9 <body>
10
11   <a href="index1.html">
12     <button>Practical 2.1</button>
13   </a>
14
15   <a href="index2.html">
16     <button>Practical 2.2</button>
17   </a>
18
19
20
21
22 </body>
23
24 </html>
```

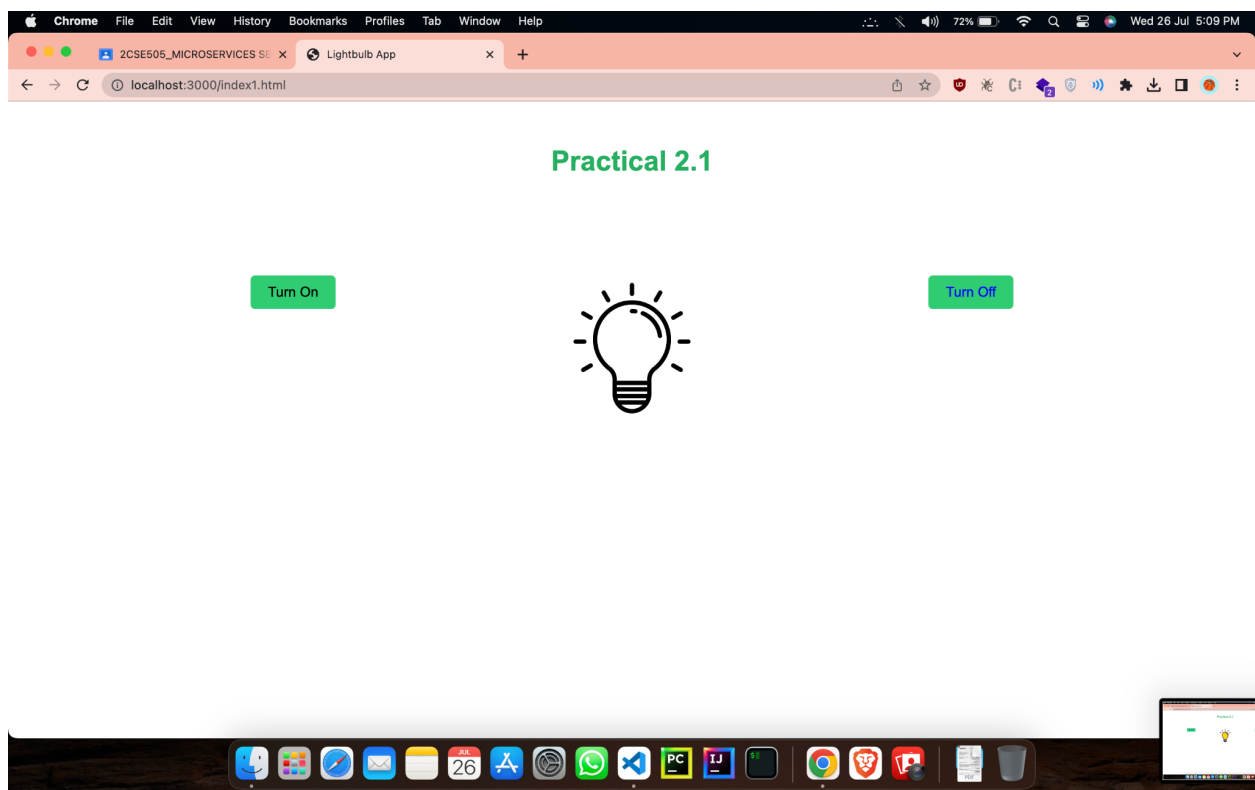
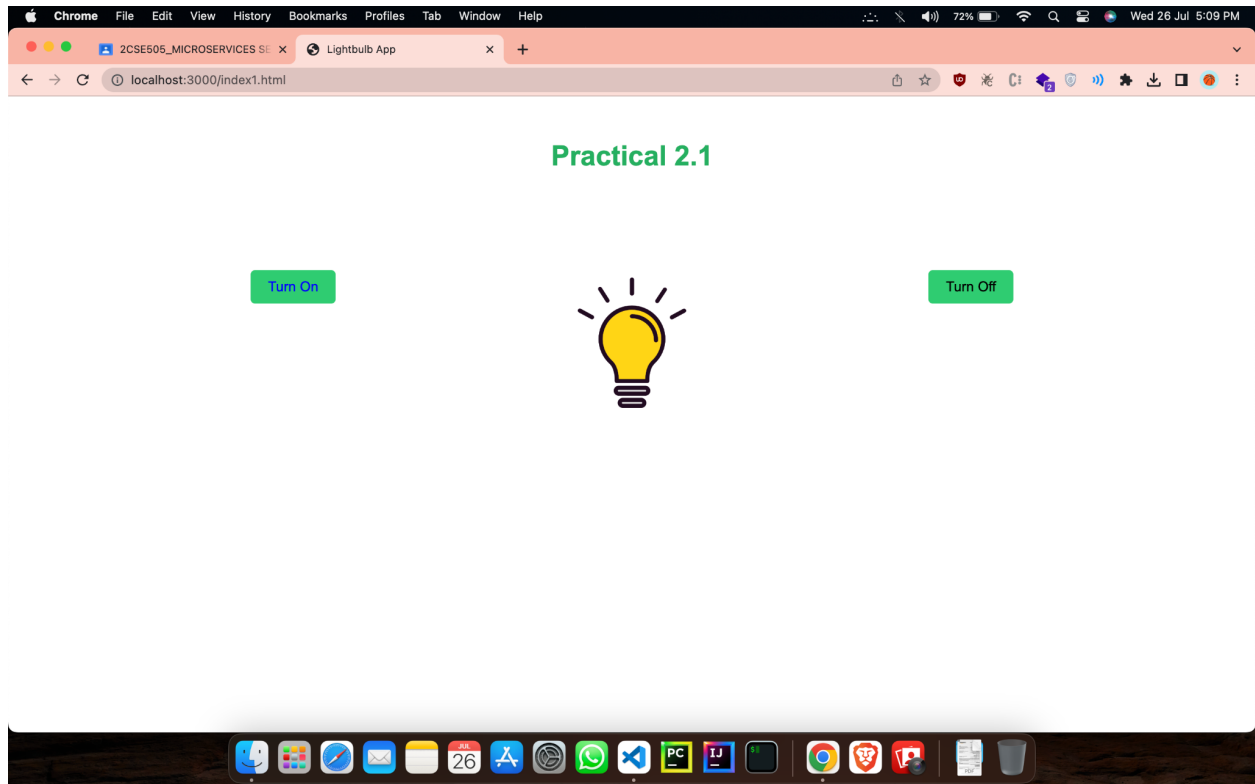


This screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar is expanded to show the 'public' directory, which contains files like 'bulb_off.png', 'bulb_on.png', 'index.html', 'index1.html', 'index2.html', 'style.css', 'style1.css', 'style2.css', 'index.js', 'package-lock.json', and 'package.json'. The 'index1.html' file is selected and its content is displayed in the main editor area. The code is a basic HTML document with a title 'Lightbulb App', a link to 'style1.css', and two buttons: 'Turn On' and 'Turn Off'. It also includes a script that changes the background color of the document body and the color of the buttons when they are clicked.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Lightbulb App</title>
5   <link rel="stylesheet" type="text/css" href="/style1.css">
6 </head>
7 <body>
8
9   <h1 id="prac">Practical 2.1</h1>
10
11   
12
13   <button id="onBtn" onclick="turnOn()">Turn On</button>
14   <button id="offBtn" onclick="turnOff()">Turn Off</button>
15
16   <script>
17     function turnOn() {
18       document.getElementById('bulb').src = '/bulb_on.png';
19       document.getElementById('onBtn').style.color = 'blue';
20       document.getElementById('offBtn').style.color = 'black';
21       // document.body.style.backgroundColor = 'black';
22     }
23
24     function turnOff() {
25       document.getElementById('bulb').src = '/bulb_off.png';
26       document.getElementById('onBtn').style.color = 'black';
27       document.getElementById('offBtn').style.color = 'blue';
28       // document.body.style.backgroundColor = 'white';
29     }
30
31   }
32 </script>
33
34 </body>
35 </html>
```

OUTPUT:

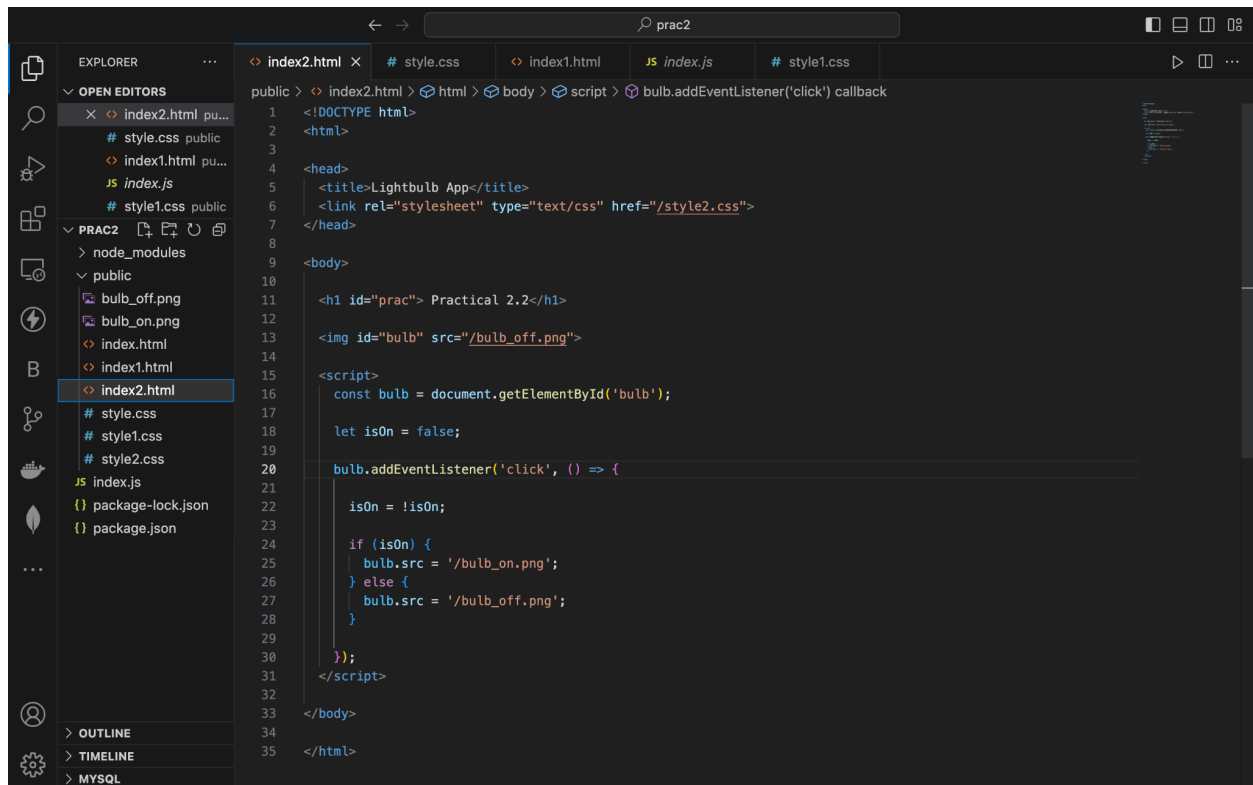




Practical 2.2: Developing NodeJS

application to create a website GUI (use HTML, CSS, JavaScript) to Click on the light bulb to turn on/off the light.

CODE:



```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <title>Lightbulb App</title>
6   <link rel="stylesheet" type="text/css" href="/style2.css">
7 </head>
8
9 <body>
10
11   <h1 id="prac"> Practical 2.2</h1>
12
13   
14
15   <script>
16     const bulb = document.getElementById('bulb');
17
18     let isOn = false;
19
20     bulb.addEventListener('click', () => {
21
22       isOn = !isOn;
23
24       if (isOn) {
25         bulb.src = '/bulb_on.png';
26       } else {
27         bulb.src = '/bulb_off.png';
28       }
29
30     });
31   </script>
32
33 </body>
34
35 </html>
```

OUTPUT:

