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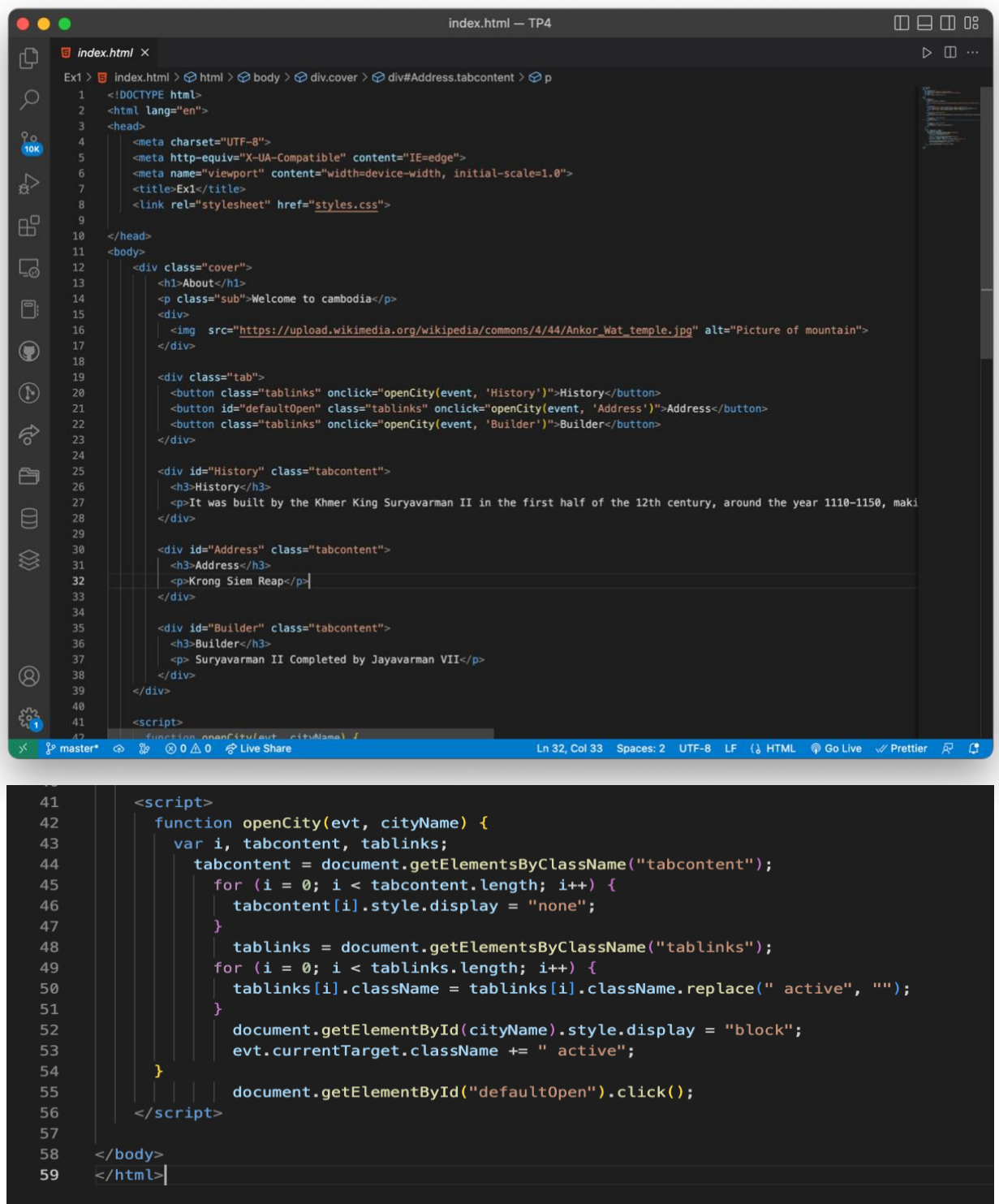
GROUP: GIC-A

TP4 Assignment

GIT URL: <https://github.com/HengChhayhong275/IP-TP4.git>

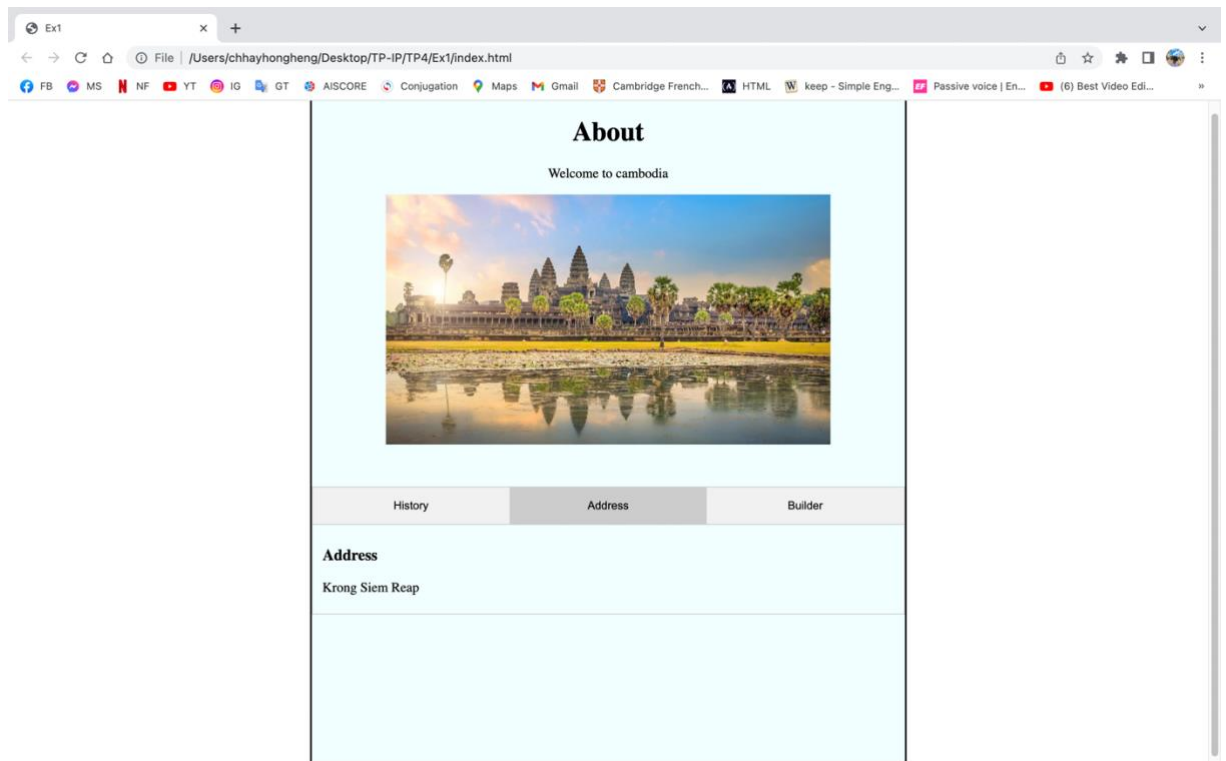
EX1. Tab

- Design following UI to have 3 tabs.



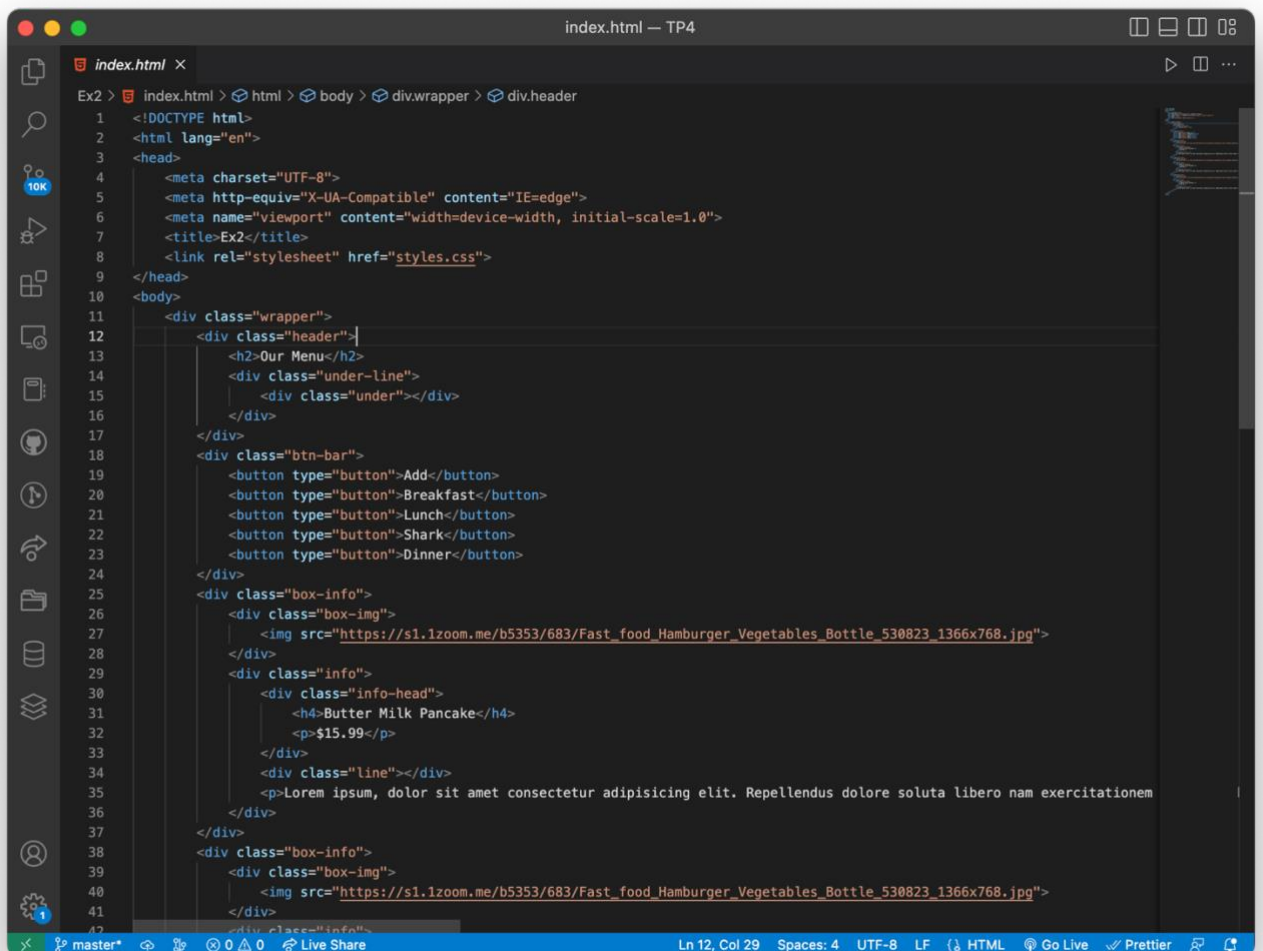
```
index.html — TP4
index.html x
Ex1 > index.html > html > body > div.cover > div.Address.tabcontent > p
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Ex1</title>
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <div class="cover">
12     <h1>About</h1>
13     <p class="sub">Welcome to cambodia</p>
14     <div>
15       
16     </div>
17     <div class="tab">
18       <button class="tablinks" onclick="openCity(event, 'History')">History</button>
19       <button id="defaultOpen" class="tablinks" onclick="openCity(event, 'Address')">Address</button>
20       <button class="tablinks" onclick="openCity(event, 'Builder')">Builder</button>
21     </div>
22     <div id="History" class="tabcontent">
23       <h3>History</h3>
24       <p>It was built by the Khmer King Suryavarman II in the first half of the 12th century, around the year 1110-1150, maki
25     </div>
26     <div id="Address" class="tabcontent">
27       <h3>Address</h3>
28       <p>Krong Siem Reap</p>
29     </div>
30     <div id="Builder" class="tabcontent">
31       <h3>Builder</h3>
32       <p>Suryavarman II Completed by Jayavarman VII</p>
33     </div>
34   </div>
35   <script>
36     function openCity(evt, cityName) {
37       var i, tabcontent, tablinks;
38       tabcontent = document.getElementsByClassName("tabcontent");
39       for (i = 0; i < tabcontent.length; i++) {
40         tabcontent[i].style.display = "none";
41       }
42       tablinks = document.getElementsByClassName("tablinks");
43       for (i = 0; i < tablinks.length; i++) {
44         tablinks[i].className = tablinks[i].className.replace(" active", "");
45       }
46       document.getElementById(cityName).style.display = "block";
47       evt.currentTarget.className += " active";
48     }
49     document.getElementById("defaultOpen").click();
50   </script>
51 </body>
52 </html>
```

Output



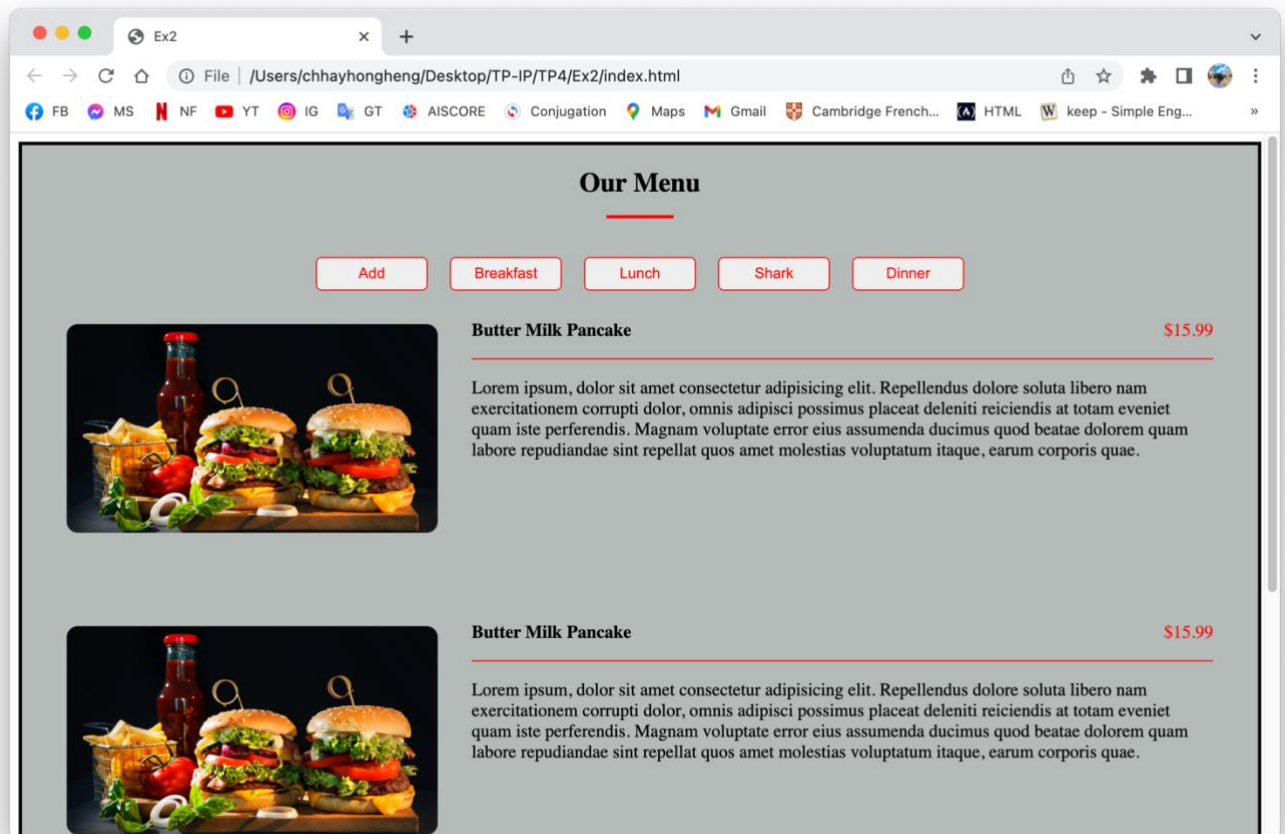
EX2. Responsive Menu

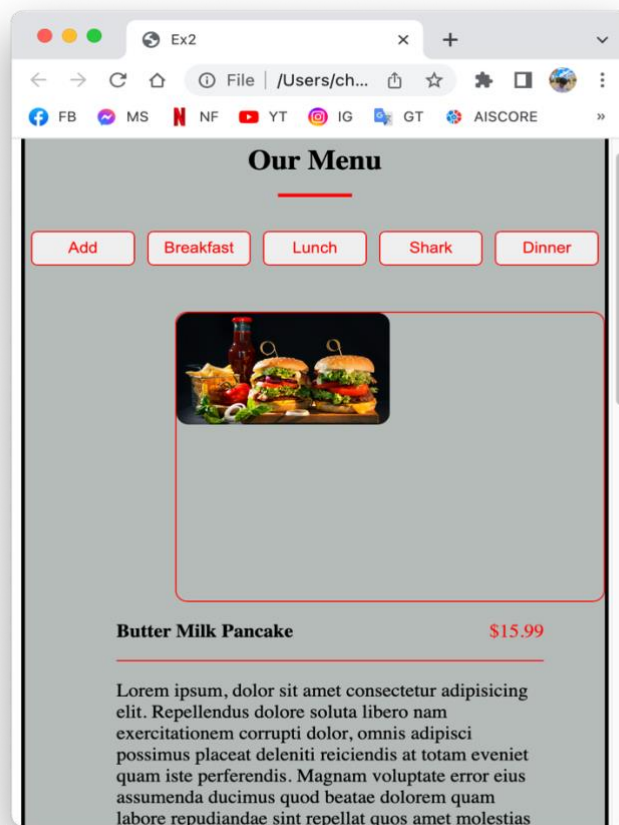
- Design following responsive UI as following



```
index.html — TP4
index.html x
Ex2 > index.html > html > body > div.wrapper > div.box-info > div.info > div.info-head
32      <p>$15.99</p>
33    </div>
34    <div class="line"></div>
35    <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Repellendus dolore soluta libero nam exercitationem
36  </div>
37  </div>
38  <div class="box-info">
39    <div class="box-img">
40      
41    </div>
42    <div class="info">
43      <div class="info-head">
44        <h4>Butter Milk Pancake</h4>
45        <p>$15.99</p>
46      </div>
47      <div class="line"></div>
48      <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Repellendus dolore soluta libero nam exercitationem
49    </div>
50  </div>
51  <div class="box-info">
52    <div class="box-img">
53      
54    </div>
55    <div class="info">
56      <div class="info-head">
57        <h4>Butter Milk Pancake</h4>
58        <p>$15.99</p>
59      </div>
60      <div class="line"></div>
61      <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Repellendus dolore soluta libero nam exercitationem
62    </div>
63  </div>
64 </div>
65 </body>
66 </html>
```

Output





EX3. Counter

- Build a number counter app with Class/Object concept and local storage

```

index.html — TP4
index.html x
Ex3 > index.html > html > head > link
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Ex3</title>
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <div class="wrapper">
12     <div class="header">
13       <h1>Counter</h1>
14     </div>
15     <div id="number">0</div>
16     <div class="button">
17       <button type="button" id="decrease" onclick="decreaseNum()" class="btn">DECREASE</button>
18       <button type="button" id="reset" onclick="resetNum()" class="btn">RESET</button>
19       <button type="button" id="increase" onclick="increaseNum()" class="btn">INCREASE</button>
20     </div>
21   </div>
22   <script>
23     class Counter {
24       number = 0
25       constructor(number){
26         if (number) this.number = number
27       }
28
29       decrease(){
30         return this.number --
31       }
32
33       increase(){
34         return this.number ++
35       }
36
37       reset(){
38         return this.number = 0
39       }
40     }
41     const myCounter = new Counter(localStorage.getItem("counterNum"));
42     const mainNum = document.getElementById('number');
  
```

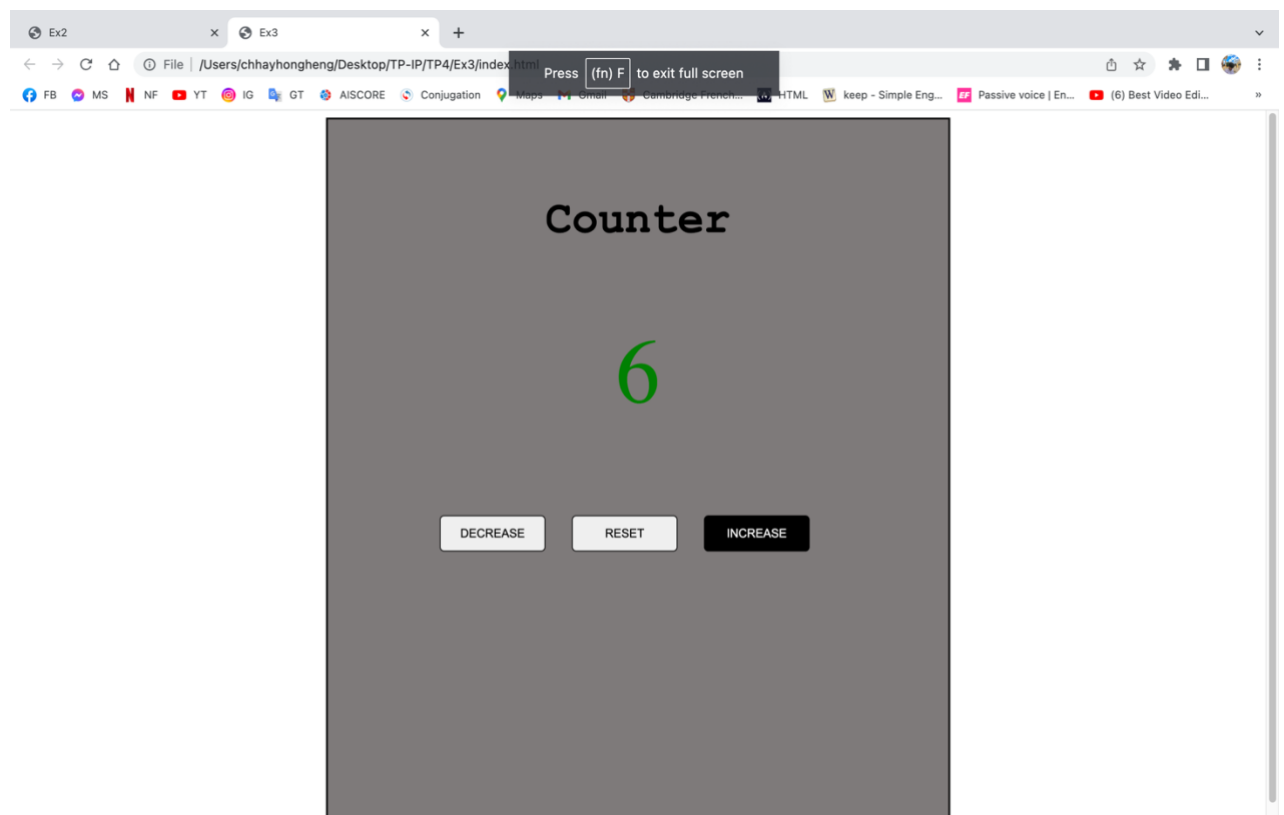


```

39     }
40 }
41 const myCounter = new Counter(localStorage.getItem("counterNum"));
42 const mainNum = document.getElementById('number');
43 function decreaseNum(){
44     document.getElementById('number').style.color = 'red'
45     myCounter.decrease()
46     displayNum()
47 }
48 function resetNum(){
49     document.getElementById('number').style.color = 'black'
50     myCounter.reset()
51     displayNum()
52 }
53
54 function increaseNum(){
55     document.getElementById('number').style.color = 'green'
56     myCounter.increase()
57     displayNum()
58 }
59
60 function displayNum(){
61     localStorage.setItem("counterNum", myCounter.number);
62     mainNum.innerHTML = localStorage.getItem("counterNum");
63 }
64 </script>
65 </body>
66 </html>

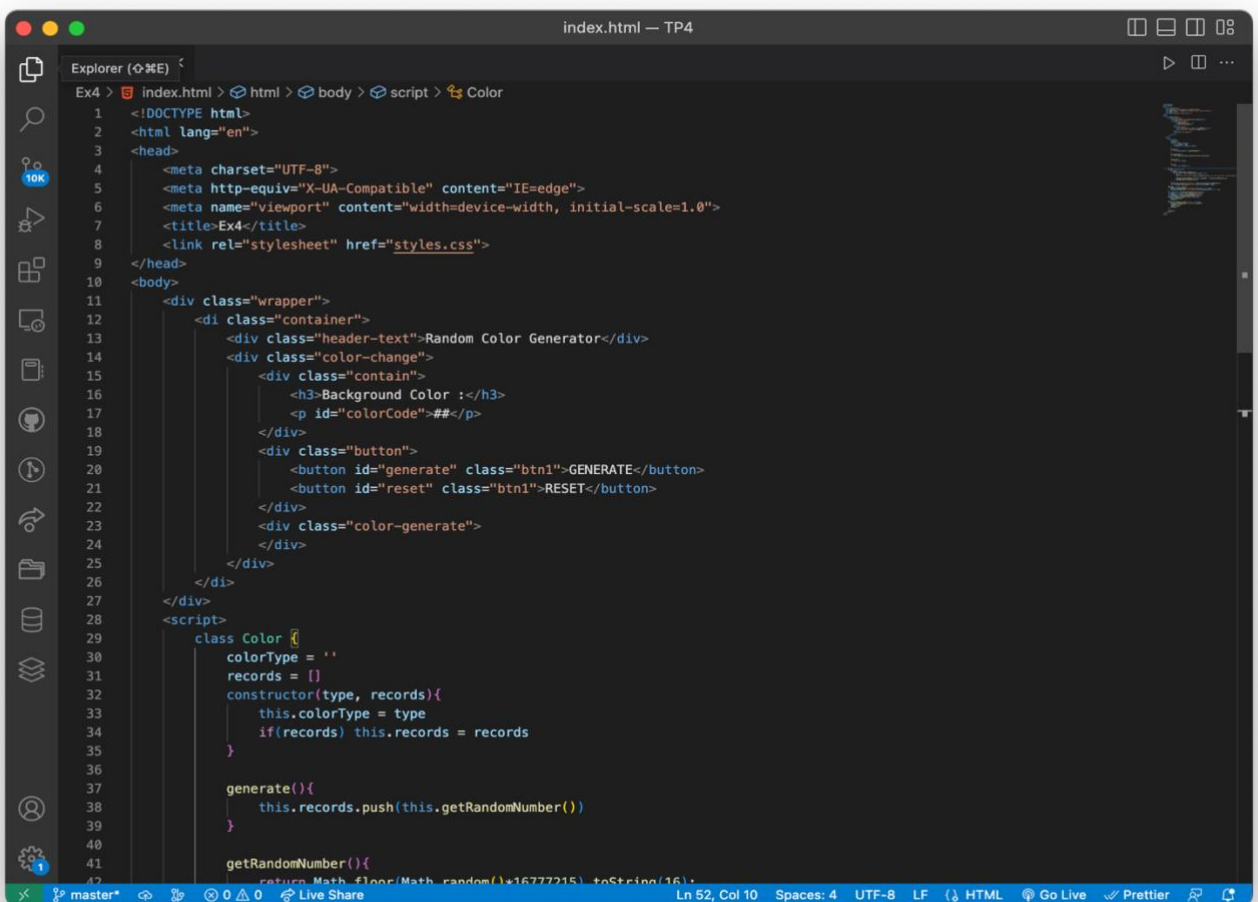
```

Output

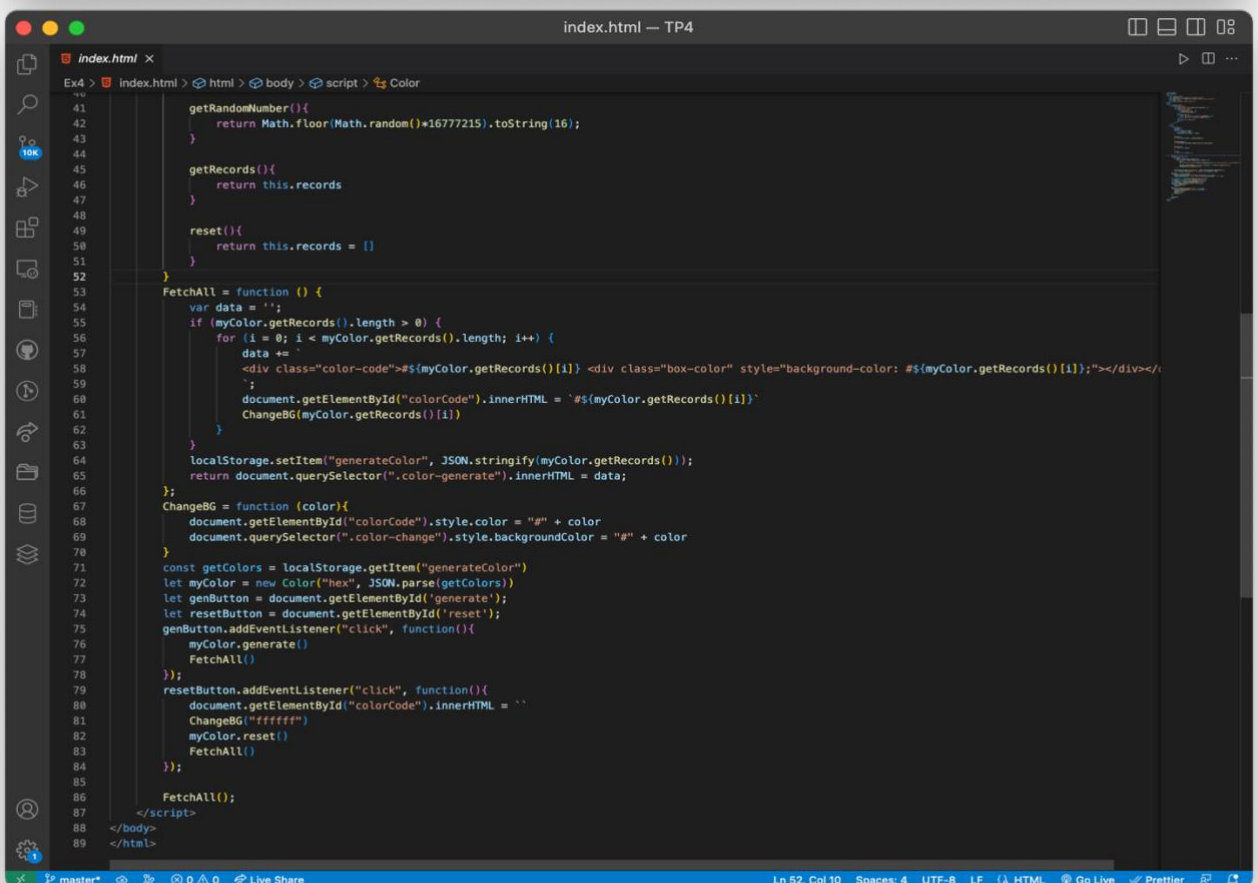


EX4. Random Color Generator

- Build color generator app with Class/Object concept with local storage

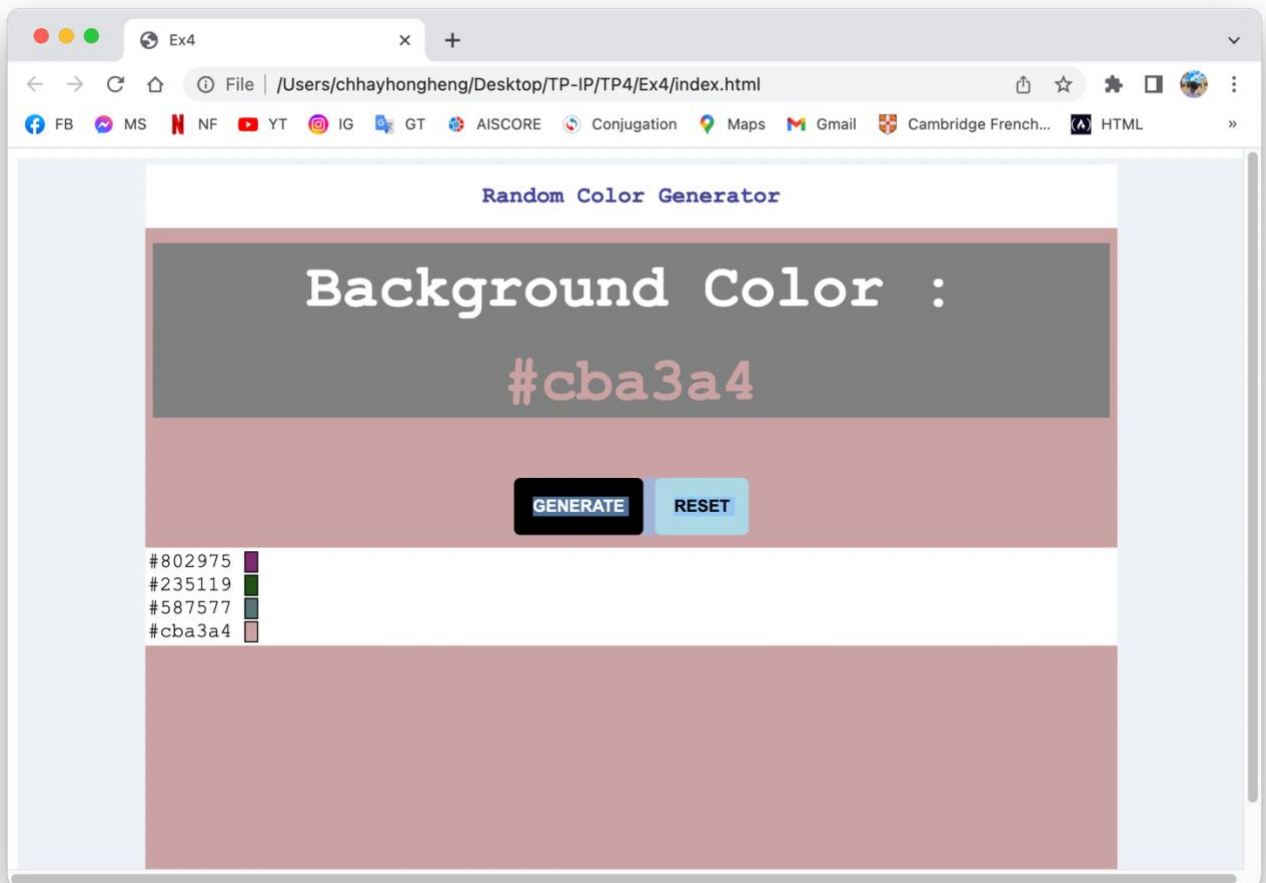


```
index.html — TP4
Ex4 > index.html > html > body > script > Color
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Ex4</title>
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <div class="wrapper">
12     <div class="container">
13       <div class="header-text">Random Color Generator</div>
14       <div class="color-change">
15         <div class="contain">
16           <h3>Background Color :</h3>
17           <p id="colorCode">##</p>
18         </div>
19         <div class="button">
20           <button id="generate" class="btn1">GENERATE</button>
21           <button id="reset" class="btn1">RESET</button>
22         </div>
23         <div class="color-generate">
24         </div>
25       </div>
26     </div>
27   </div>
28   <script>
29     class Color {
30       colorType = ''
31       records = []
32       constructor(type, records){
33         this.colorType = type
34         if(records) this.records = records
35       }
36
37       generate(){
38         this.records.push(this.getRandomNumber())
39       }
40
41       getRandomNumber(){
42         return Math.floor(Math.random()*16777215).toString(16);
43       }
44     }
45   </script>
46 </body>
47 </html>
```



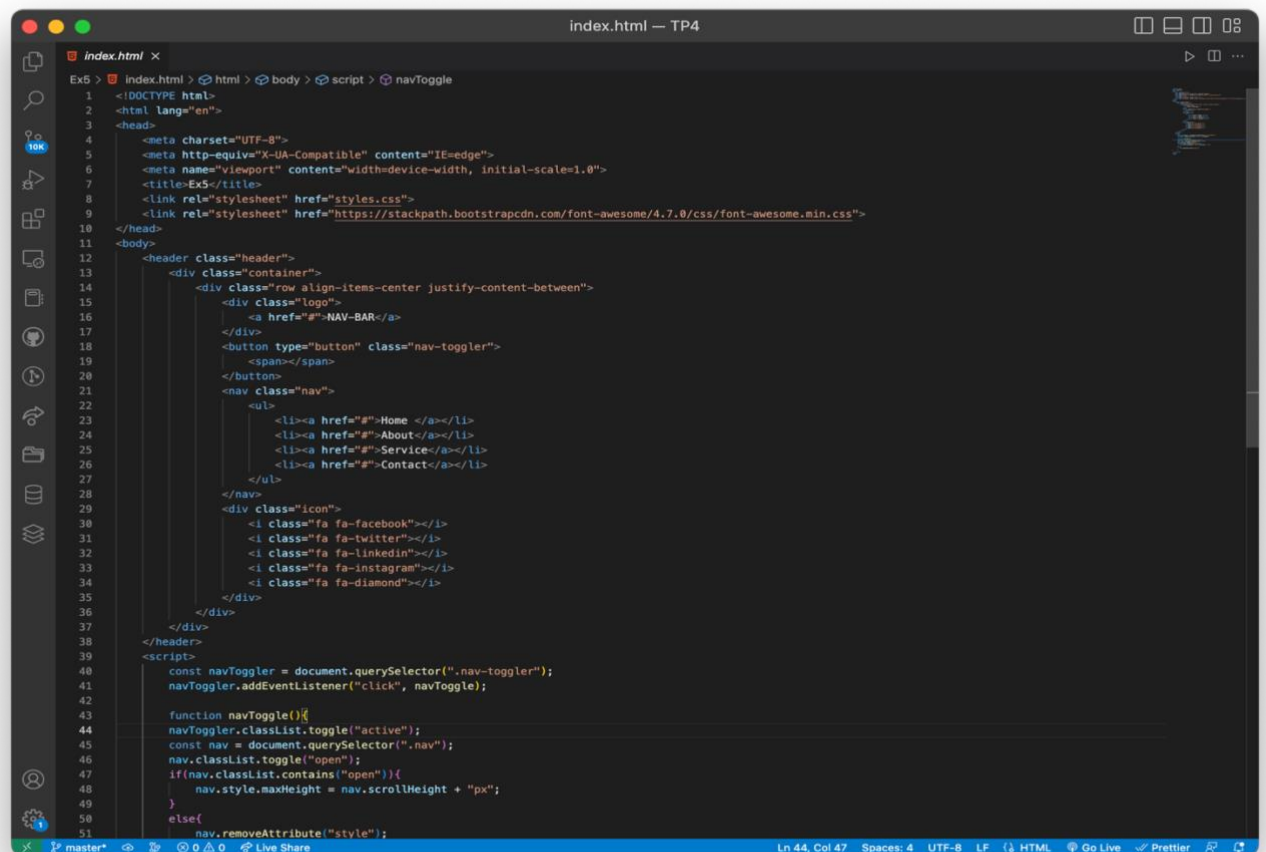
```
index.html — TP4
Ex4 > index.html > html > body > script > Color
41   getRandomNumber(){
42     return Math.floor(Math.random()*16777215).toString(16);
43   }
44
45   getRecords(){
46     return this.records
47   }
48
49   reset(){
50     return this.records = []
51   }
52 }
53
54 FetchAll = function () {
55   var data = '';
56   if (myColor.getRecords().length > 0) {
57     for (i = 0; i < myColor.getRecords().length; i++) {
58       data +=
59         <div class="color-code">#${myColor.getRecords()[i]} <div class="box-color" style="background-color: #${myColor.getRecords()[i]}></div></div>
60       document.getElementById("colorCode").innerHTML = `#${myColor.getRecords()[i]}`
61       ChangeBG(myColor.getRecords()[i])
62     }
63   }
64   localStorage.setItem("generateColor", JSON.stringify(myColor.getRecords()));
65   return document.querySelector(".color-generate").innerHTML = data;
66 };
67
68 ChangeBG = function (color){
69   document.getElementById("colorCode").style.color = "#" + color
70   document.querySelector(".color-change").style.backgroundColor = "#" + color
71 }
72
73 const getColors = localStorage.getItem("generateColor")
74 let myColor = new Color("hex", JSON.parse(getColors))
75 let genButton = document.getElementById('generate');
76 let resetButton = document.getElementById('reset');
77 genButton.addEventListener("click", function(){
78   myColor.generate()
79   FetchAll()
80 });
81 resetButton.addEventListener("click", function(){
82   document.getElementById("colorCode").innerHTML = ''
83   ChangeBG("ffffff")
84   myColor.reset()
85   FetchAll()
86 });
87
88 FetchAll();
89 </script>
90 </body>
91 </html>
```

Output



EX5. Responsive Navigation Bar

- Build a navigation bar to support both wide and mobile screen.

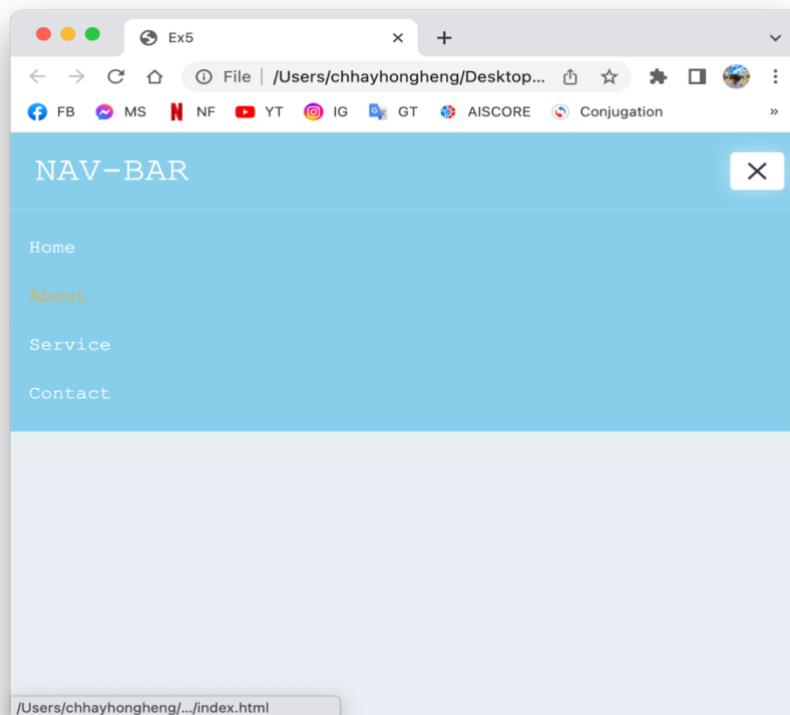
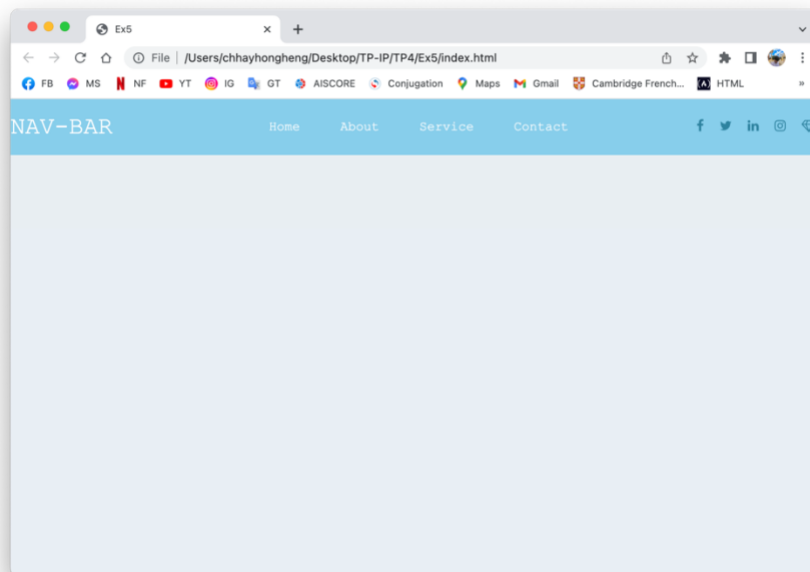


```

49         }
50         else{
51             nav.removeAttribute("style");
52         }
53     }
54     </script>
55 </body>
56 </html>

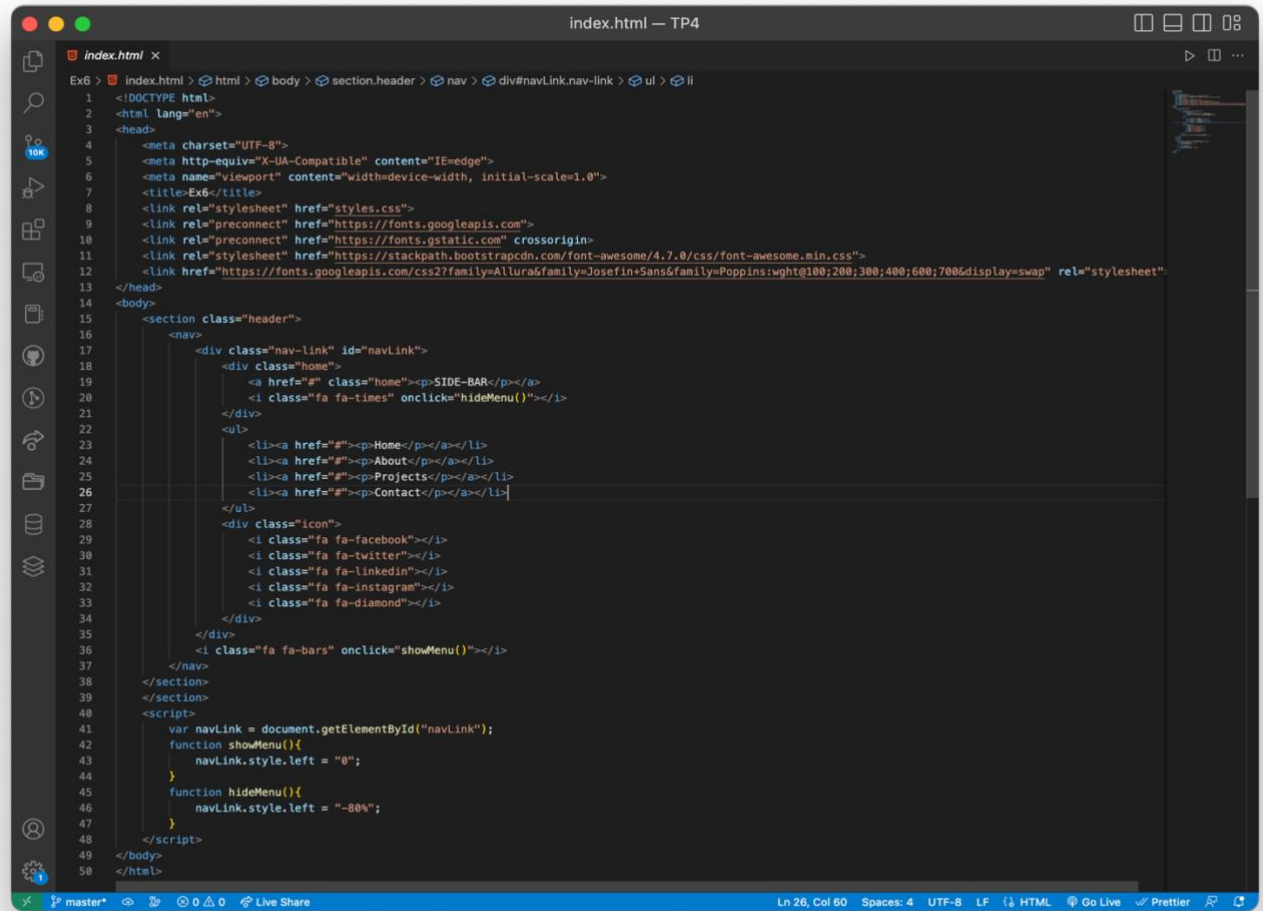
```

Output



EX6. Side Bar

- Build an app with a side bar



```
index.html — TP4
index.html x
Ex6 > index.html > html > body > section.header > nav > div#navLink.nav-link > ul > li
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Ex6</title>
8   <link rel="stylesheet" href="styles.css">
9   <link rel="preconnect" href="https://fonts.googleapis.com">
10  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
11  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
12  <link href="https://fonts.googleapis.com/css2?family=Allura&family=Josefin+Sans&family=Poppins:wght@100;200;300;400;600;700&display=swap" rel="stylesheet">
13 </head>
14 <body>
15   <section class="header">
16     <nav>
17       <div class="nav-link" id="navLink">
18         <div class="home">
19           <a href="#" class="home"><p>SIDE-BAR</p></a>
20           <i class="fa fa-times" onclick="hideMenu()"></i>
21         </div>
22         <ul>
23           <li><a href="#"><p>Home</p></a></li>
24           <li><a href="#"><p>About</p></a></li>
25           <li><a href="#"><p>Projects</p></a></li>
26           <li><a href="#"><p>Contact</p></a></li>
27         </ul>
28         <div class="icon">
29           <i class="fa fa-facebook"></i>
30           <i class="fa fa-twitter"></i>
31           <i class="fa fa-linkedin"></i>
32           <i class="fa fa-instagram"></i>
33           <i class="fa fa-diamond"></i>
34         </div>
35       </div>
36       <i class="fa fa-bars" onclick="showMenu()"></i>
37     </nav>
38   </section>
39 </section>
40 <script>
41   var navLink = document.getElementById("navLink");
42   function showMenu(){
43     navLink.style.left = "0";
44   }
45   function hideMenu(){
46     navLink.style.left = "-80%";
47   }
48 </script>
49 </body>
50 </html>
```

