



**Institute of Technology of Cambodia  
Department of Information Technology and Communication  
Engineering**

**Lecturer: HOK Tin**

**Subject: Internet Programming I**

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**Group: I4-GIC-A**

**TP04**

2022-2023

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**EXERCISE 1 ..... 1**

**EXERCISE 2 ..... 2**

**EXERCISE 3 ..... 4**

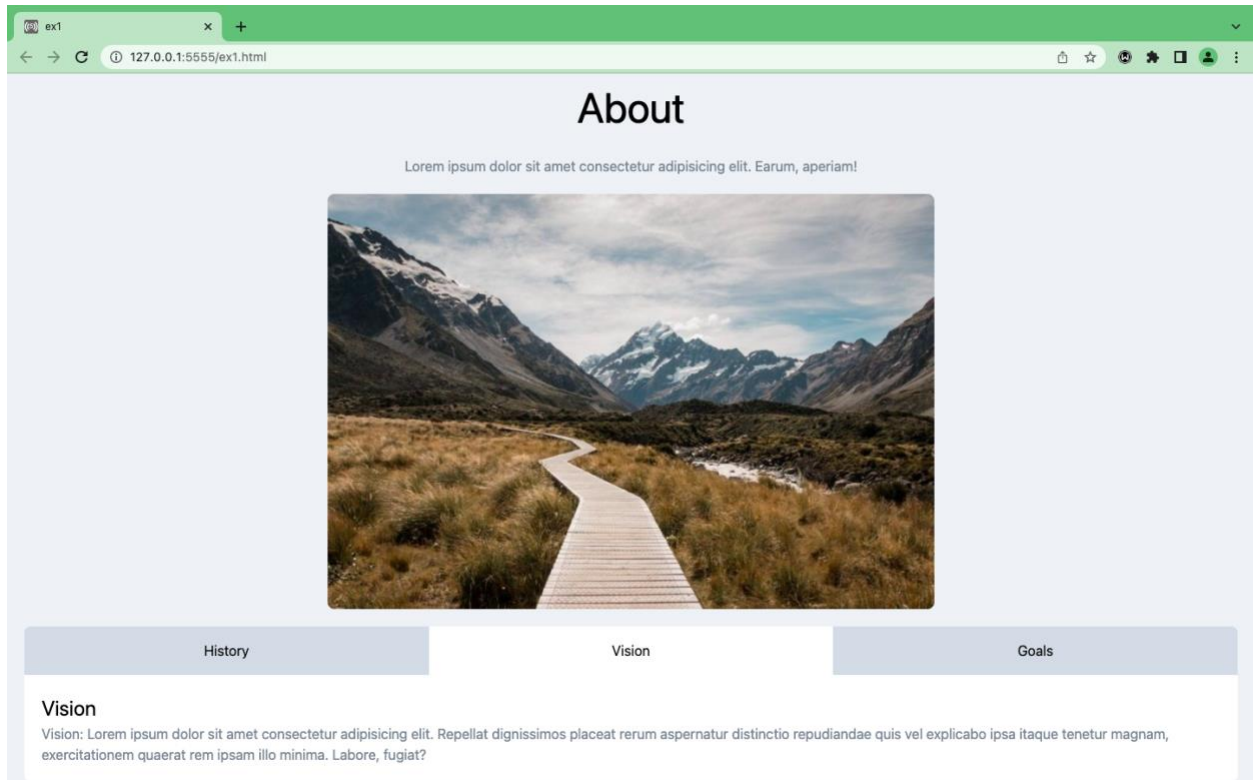
**EXERCISE 4 ..... 5**

**EXERCISE 5 ..... 7**

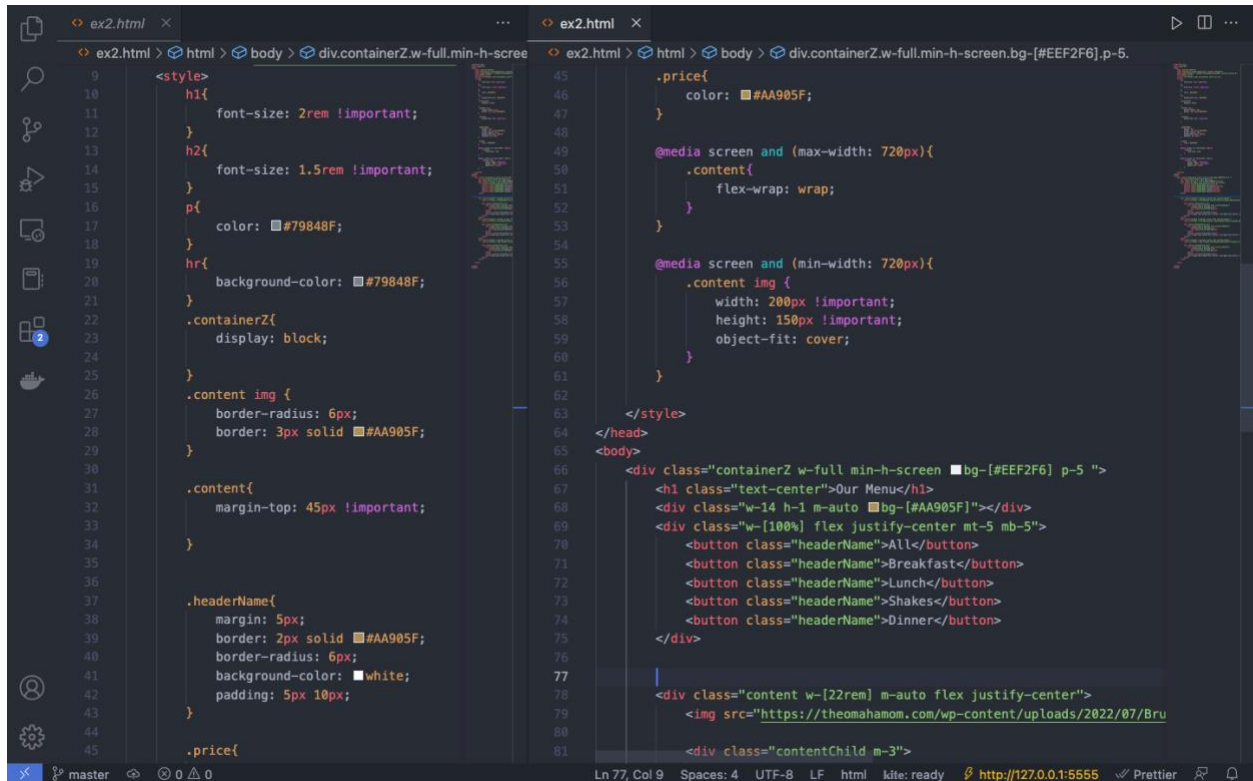
**EXERCISE 6 ..... 9**

## Exercise 1

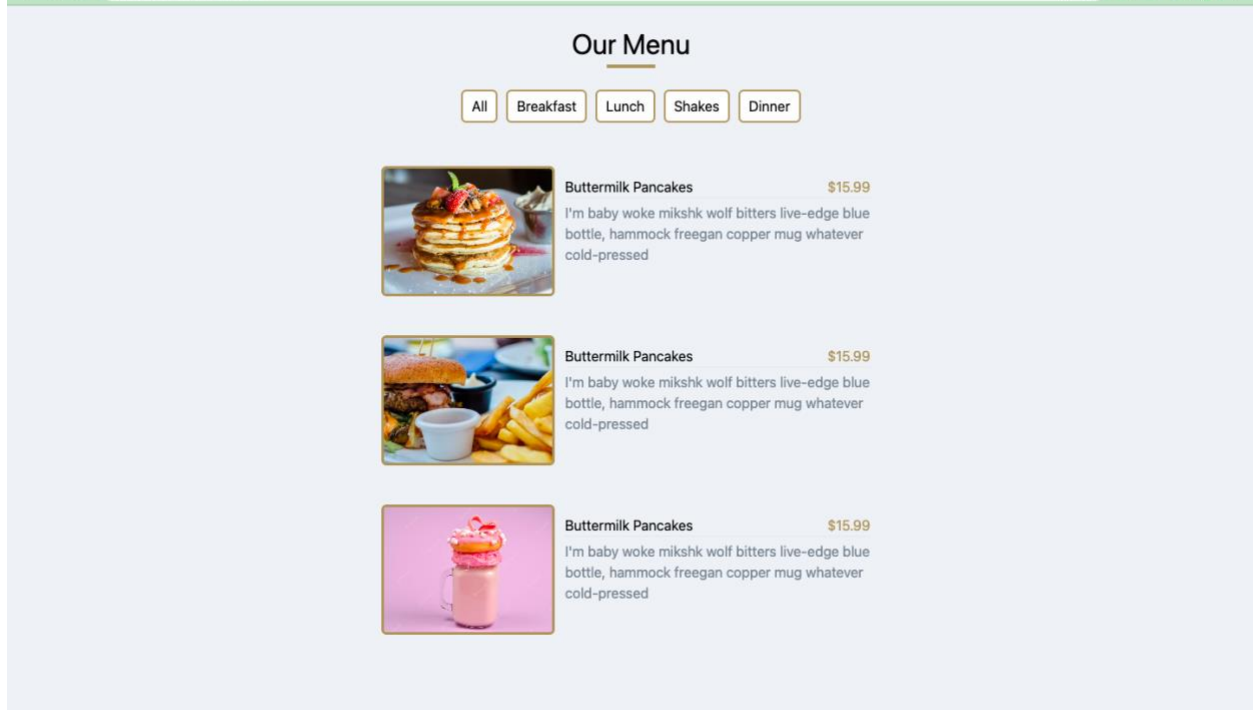
```
ex1.html > html > head > style > h2
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7   <title>ex1</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9   <style>
10     h1{
11       font-size: 3rem !important;
12     }
13     h2{
14       font-size: 1.5rem !important;
15     }
16     p{
17       color: #79848F;
18     }
19     .imgSrc{
20       border-radius: 8px;
21     }
22     .conContainer{
23       border-radius: 8px;
24       overflow: auto;
25     }
26   }
27   .headerName{
28     padding: 1rem;
29     width: 100%;
30   }
31   #Con-H, #ContentOf{
32     background-color: white !important;
33     text-align: left;
34   }
35 }
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```

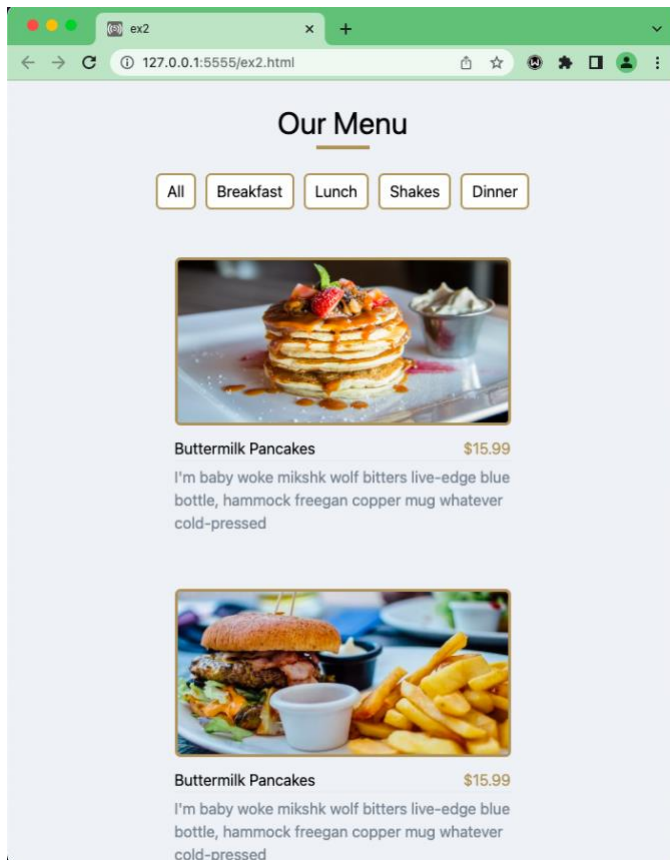


## Exercise 2



```
ex2.html M x
ex2.html > html > body > div.containerZ.w-full.min-h-screen.bg-[#EEF2F6].p-5.
79 
83   <div class="row1 w-[22rem] flex justify-between">
84     <h3>Buttermilk Pancakes</h3>
85     <div class="price">$15.99</div>
86   </div>
87   <hr<div class="h-[0.3rem]"></div>
88   <p>I'm baby woke mikshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed</p>
89 </div>
90 <div class="content w-[22rem] m-auto flex justify-center">
91   
94     <div class="row1 w-[22rem] flex justify-between">
95       <h3>Buttermilk Pancakes</h3>
96       <div class="price">$15.99</div>
97     </div>
98     <hr<div class="h-[0.3rem]"></div>
99     <p>I'm baby woke mikshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed</p>
100 </div>
101 </div>
102 <div class="content w-[22rem] m-auto flex justify-center">
103   
106     <div class="row1 w-[22rem] flex justify-between">
107       <h3>Buttermilk Pancakes</h3>
108       <div class="price">$15.99</div>
109     </div>
110     <hr<div class="h-[0.3rem]"></div>
111     <p>I'm baby woke mikshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed</p>
112 </div>
113 </div>
114 </div>
115 </body>
```





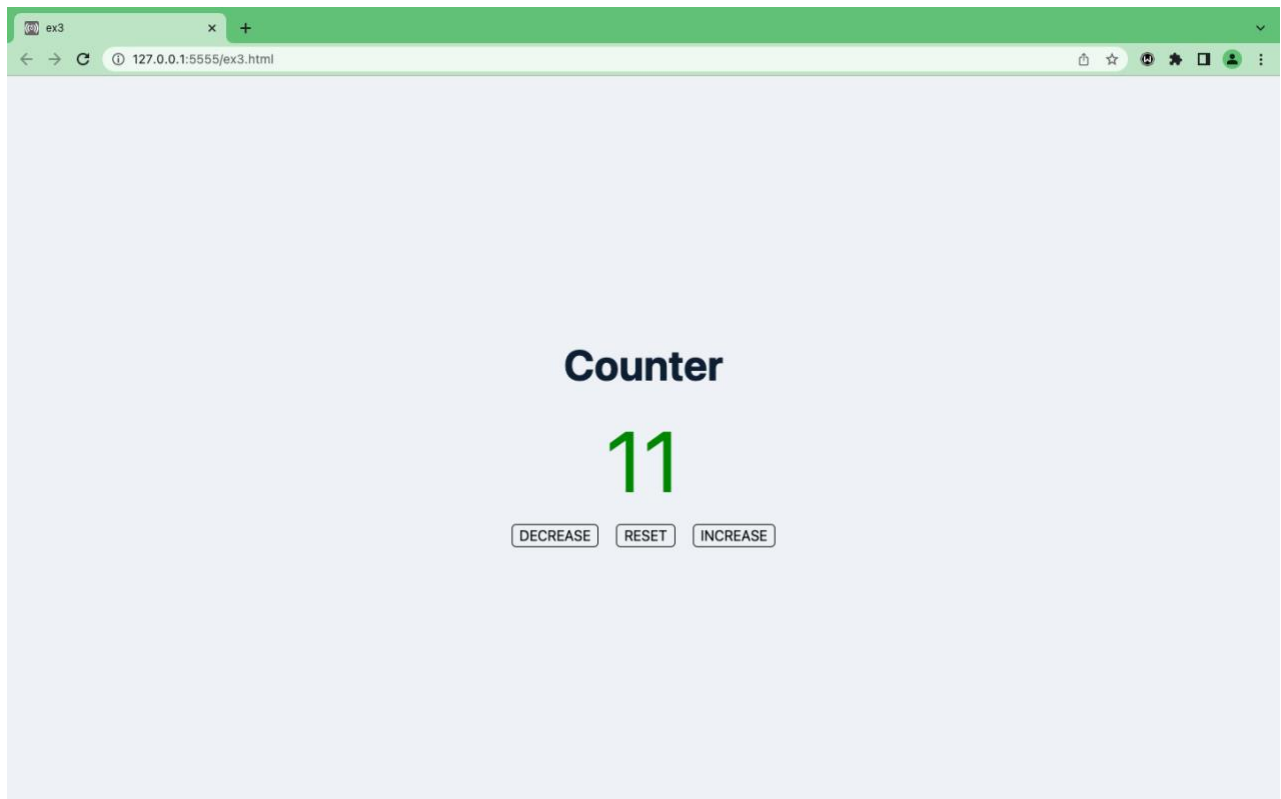
## Exercise 3

```

ex3.html M x
ex3.html > ...
9
10 <style>
11 .myButton button{
12   border: 1px solid;
13   border-radius: 5px;
14   padding: 0 8px;
15 }
16 .myButton button:hover{
17   color: white;
18   background-color: black;
19 }
20 .content h3{
21   color: #112031;
22   font-weight: bold;
23   font-size: 3rem;
24 }
25 #myNumber{
26   font-size: 6rem;
27 }
28 </style>
29 </head>
30 <body>
31 <div class="containerZ w-full min-h-screen bg-[
32 <div class="content text-center">
33 <h3>Counter</h3>
34 <div id="myNumber">0</div>
35 <div class="myButton flex gap-5">
36 <button id="decre">DECREASE</button>
37 <button id="reset">RESET</button>
38 <button id="incre">INCREASE</button>
39 </div>
40 </div>
41 <script>
42 class Counter {
43   number = 0
44   constructor(number){
45
46
47
48   }
49   decrease(){return this.number --}
50   increase(){return this.number ++}
51   reset(){return this.number = 0}
52 }
53 let myCounter = new Counter(localStorage.getItem("counterNum"))
54 let mainNum = document.getElementById('myNumber');
55 let decreButton = document.getElementById('decre');
56 let resetButton = document.getElementById('reset');
57 let increButton = document.getElementById('incre');
58
59 decreButton.addEventListener("click", function(){
60   document.getElementById('myNumber').style.color = 'red'
61   myCounter.decrease()
62   displayNum()
63 });
64 resetButton.addEventListener("click", function(){
65   document.getElementById('myNumber').style.color = 'black'
66   myCounter.reset()
67   displayNum()
68 });
69 increButton.addEventListener("click", function(){
70   document.getElementById('myNumber').style.color = 'green'
71   myCounter.increase()
72   displayNum()
73 });
74
75 function displayNum(){
76   localStorage.setItem("counterNum", myCounter.number);
77   mainNum.innerHTML = localStorage.getItem("counterNum");
78 }
79
80 displayNum();
81 </script>

```





## Exercise 4

```

ex4.html M X
ex4.html > html > head > style > .content h3
9
10 <style>
11   .myButton button{
12     font-weight: bold;
13     border: 2px solid black;
14     border-radius: 5px;
15     padding: 8px 12px;
16   }
17   .myButton button:hover{
18     color: white;
19     background-color: black;
20   }
21   .content h3{
22     color: white;
23     font-weight: bold;
24     font-size: 3rem;
25   }
26   #colorCode{
27     font-weight: bold;
28     font-size: 3rem;
29   }
30 </style>
31 </head>
32 <body>
33   <div class="containerZ w-full min-h-screen bg-[#EEF2F6]">
34     <div class="content text-center bg-white w-[80%]">
35       <div class="text-left p-3 font-bold">Random Color</div>
36       <div class="doGen h-[95%] pt-[6px]">
37         <div class="blackBG bg-black text-white p-3">
38           <h3>Background Color :</h3>
39           <p id="colorCode">##</p>
40         </div>
41         <div class="myButton pb-2 pt-9">
42           <button id="generate">GENERATE</button>
43           <button id="reset">RESET</button>
44         </div>
45       </div>
46     </div>
47     <div class="genCon bg-white max-h-[60vh] overflow-hidden">
48       <!-- List Color here -->
49     </div>
50   </div>
51 </body>
52
53 <script>
54
55   class Color {
56     colorType = ''
57     records = []
58     constructor(type, records){
59       this.colorType = type
60       if(records) this.records = records
61     }
62
63     generate(){
64       this.records.push(this.getRandomNumber())
65     }
66
67     getRandomNumber(){
68       return Math.floor(Math.random()*16777215).toString(16)
69     }
70
71     getRecords(){
72       return this.records
73     }
74
75     reset(){
76       return this.records = []
77     }
78   }
79
80   FetchAll = function () {
81
82

```

```
ex4.html M X
ex4.html > html > body > script
83
84
85
86
87
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117
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119
</script>

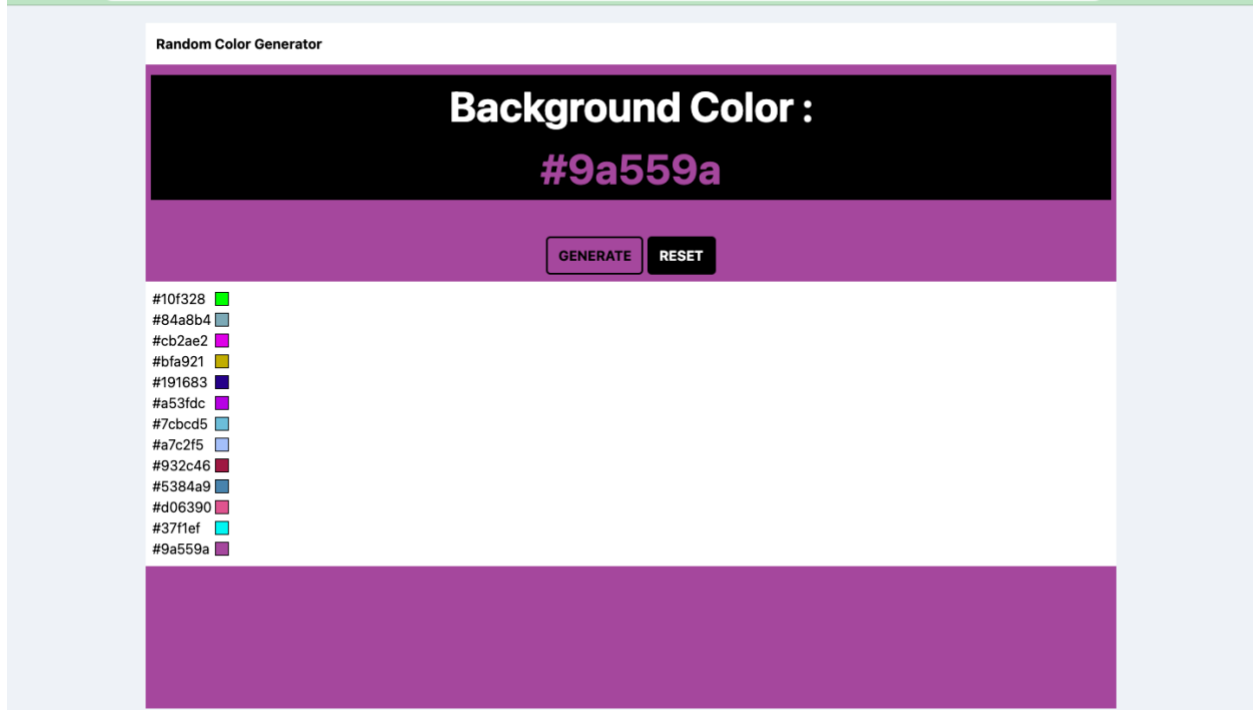
FetchAll = function () {
  var data = '';
  if (myColor.getRecords().length > 0) {
    for (i = 0; i < myColor.getRecords().length; i++) {
      data += `
      <div class="w-[5.5rem] flex items-center justify-between">${myColor.getRecords()[i]} <div class="bg-${myColor.re
      `;
      document.getElementById("colorCode").innerHTML = `${myColor.getRecords()[i]}`
      ChangeBG(myColor.getRecords()[i])
    }
  }
  localStorage.setItem("generateColor", JSON.stringify(myColor.getRecords()));
  return document.querySelector("#genCon").innerHTML = data;
};

ChangeBG = function (color){
  document.getElementById("colorCode").style.color = "#" + color
  document.querySelector("#doGen").style.backgroundColor = "#" + color
}

const getColors = localStorage.getItem("generateColor")
let myColor = new Color("hex", JSON.parse(getColors))
let genButton = document.getElementById('generate');
let resetButton = document.getElementById('reset');

genButton.addEventListener("click", function(){
  myColor.generate()
  FetchAll()
});

resetButton.addEventListener("click", function(){
  document.getElementById("colorCode").innerHTML = ``
  ChangeBG("ffffff")
  myColor.reset()
  FetchAll()
});
FetchAll();
```

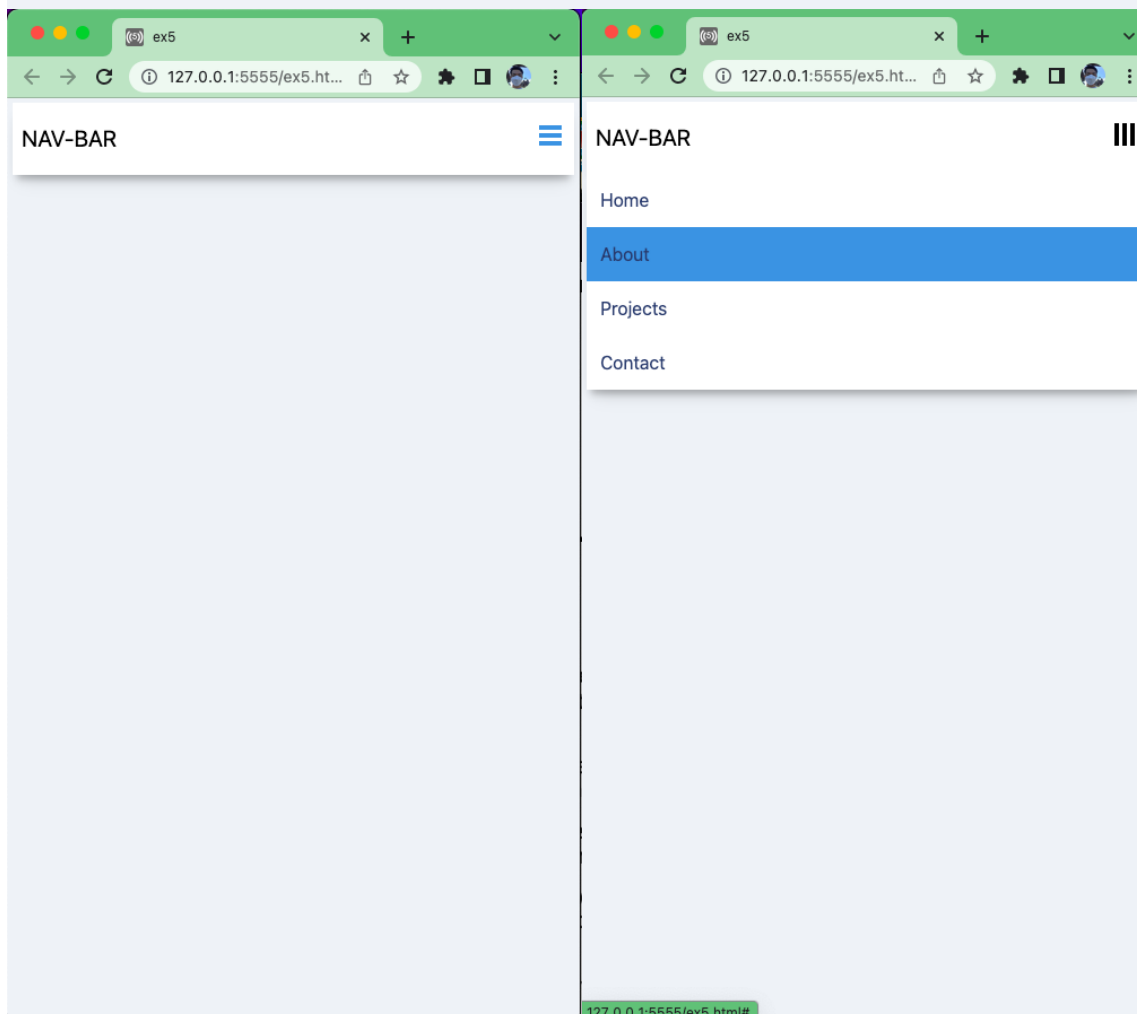
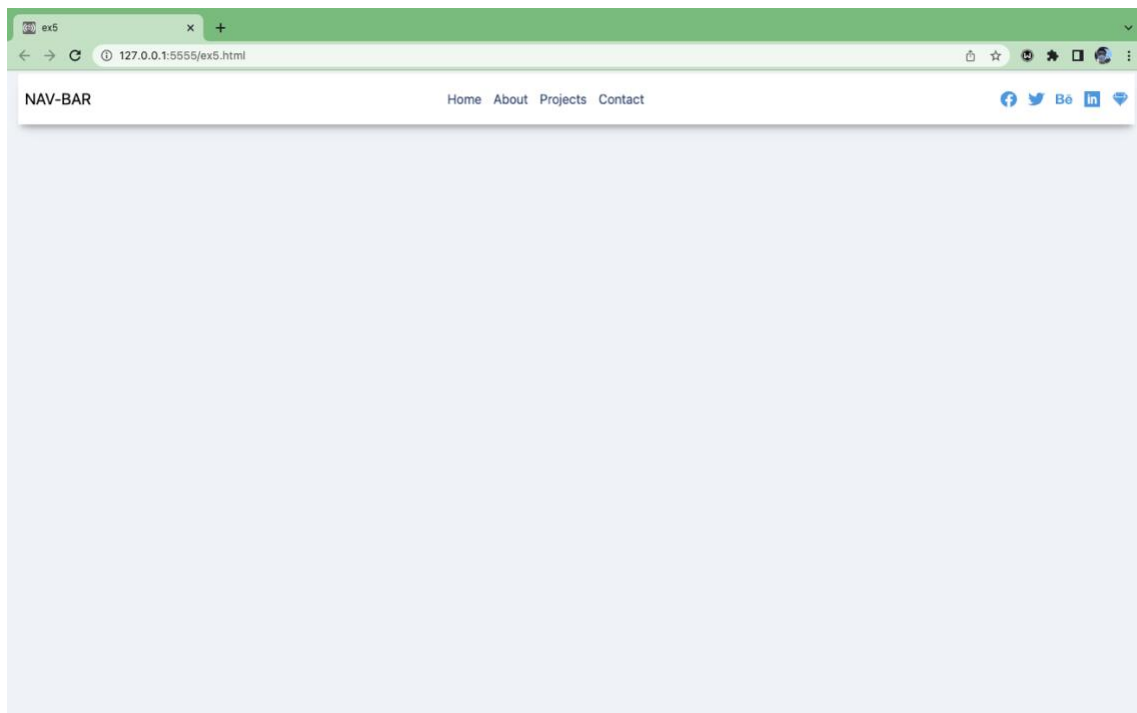




## Exercise 5

The image displays a code editor with three tabs: 'ex5.html M', 'ex5.html M', and 'ex5.html M'. The first tab shows CSS code for a navigation bar, including styles for .navBar, .menu, #menuButton, .line, and @media only screen and (max-width:512px) { ... }. The second tab shows the corresponding HTML code, including the navBar structure, menu items, and a hamburger button. The third tab shows the JavaScript code for the myFunction() function, which toggles the 'responsive' and 'is-active' classes on the menu and button elements.

```
ex5.html M > ...
9 <style>
10 .navBar{
11   box-shadow: 0px 0px 0px 0px 0px 0px 0px 0px 0px 0px;
12 }
13 .menu{
14   color: #2A3F6A;
15   display: flex;
16   gap: 15px;
17 }
18 #menuButton{
19   display:none;
20 }
21
22 .line{
23   width: 20px;
24   height: 4px;
25   background-color: #4C97DC;
26   display: block;
27   margin: 3px;
28 }
29
30 #myButton.is-active{
31   transform: rotate(90deg);
32 }
33 #myButton.is-active .line{
34   background-color: black;
35 }
36
37 @media only screen and (max-width:512px) {
38   #menuButton{
39     display:block;
40     padding:8px;
41   }
42   .menu, .linkLogo svg{
43     display:none;
44   }
45   .menu.responsive {
46     box-shadow: 0px 0px 0px 0px 0px 0px 0px 0px 0px 0px;
47     background-color: white;
48     position: absolute;
49     width: 98vw;
50     top: 67px;
51     gap: 0px;
52     display: flex;
53     flex-direction: column;
54     text-align: left;
55   }
56   .menu.responsive a{
57     padding: 12px;
58   }
59   .menu.responsive a:hover{
60     background-color: #4C97DC;
61   }
62 }
63
64 </style>
65 <div>
66
67
68 <div class="container2 w-full min-h-screen bg-[#EEF2F6] p-1 flex justify-between">
69   <div class="navBar w-[98vw] h-[4rem] bg-[white] flex justify-between">
70     <div class="ml-2 text-xl">NAV-BAR</div>
71     <div class="menu" id="myMenu">
72       <a href="#">Home</a>
73       <a href="#">About</a>
74       <a href="#">Projects</a>
75       <a href="#">Contact</a>
76     </div>
77     <div class="linkLogo flex gap-[0.9rem] mr-2">
78       <svg class="w-[1.3rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd">
79       <svg class="w-[1.3rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd">
80       <svg class="w-[1.3rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd">
81       <svg class="w-[1.3rem]" version="1.0" viewBox="0 0 32 32" xml:space="preserve" xmlns="http://www.w3.org/2000/svg"><path
82       <svg class="w-[1.3rem]" viewBox="0 0 512 512" xmlns="http://www.w3.org/2000/svg"><path d="M27.5 162.2 9 187.1h90.516.9
83
84     </div>
85     <div id="menuButton">
86       <button class="hamburger" id="myButton" onclick="myFunction()">
87         <span class="line"></span>
88         <span class="line"></span>
89         <span class="line"></span>
90       </button>
91     </div>
92   </div>
93 </div>
94
95 <script>
96
97   function myFunction() {
98     var x = document.getElementById("myMenu");
99     var y = document.getElementById("myButton");
100     if (x.className === "menu") {
101       x.className += " responsive";
102       y.className += " is-active";
103     } else {
104       x.className = "menu";
105       y.className = "hamburger";
106     }
107   }
108 </script>
109 </body>
110 </html>
111
master* 0 0 0 Ln 1, Col 16 Spaces: 4 UTF-8 LF html kate:initializing http://127.0.0.1:5555 Prettier
```



## Exercise 6

```
ex6.html M X
ex6.html > html > head > style > #menuButton
9 <style>
10
11 .menu{
12   color: #2A3F6A;
13   display: flex;
14   gap: 15px;
15 }
16 #menuButton{
17   display: none;
18 }
19
20 .line{
21   width: 20px;
22   height: 4px;
23   background-color: #4C97DC;
24   display: block;
25   margin: 3px;
26 }
27 .menu{
28   display: none;
29 }
30
31 #menuButton{
32   display: block;
33   padding: 8px;
34 }
35
36
37 .menu.responsive {
38   box-shadow: rgba(0, 0, 0, 0.2) 0px 10px 15px -8px,
39   background-color: white;
40   position: absolute;
41   width: 50vw;
42   height: 75vh;
43   left: 8px;
44   top: 8px;
45   gap: 0px;
46
47   display: flex;
48   flex-direction: column;
49   text-align: left;
50 }
51 .menu.responsive a{
52   padding: 12px;
53 }
54 .menu.responsive a:hover{
55   background-color: #4C97DC;
56 }
57 </style>
58 <ad>
59 </ad>
60
61 <div class="containerZ w-full min-h-screen bg-[#EEF2F6] p-
62 <div class="navBar w-[98vw] h-[4rem] flex justify-end it
63   <div id="menuButton">
64     <button class="hamburger" id="myButton" onclick=
65       <span class="line"></span>
66       <span class="line"></span>
67       <span class="line"></span>
68     </button>
69   </div>
70 </div>
71
72 <div class="menu" id="myMenu">
73   <div class="ml-2 text-xl p-3 flex justify-between">SIDE-
74     <button onclick="myFunction()">
75       <svg class="w-[1.6rem]" viewBox="0 0 36 36" xml:
76     </button>
77   </div>
78   <a href="#">Home</a>
79   <a href="#">About</a>
80   <a href="#">Projects</a>
81   <a href="#">Contact</a>
82 </div>
83
84 <div class="w-full h-full flex items-end justify-center p-9">
85   <div class="linkLogo flex gap-[1.2rem]">
86     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
87     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
88     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
89     <svg class="w-[1.6rem]" version="1.0" viewBox="0 0 32 32" xml:space="preserve" xmlns="http://www.w3.org/2000/svg"><pat
90     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xmlns="http://www.w3.org/2000/svg"><path d="M27.5 162.2 9 187,1h90.516.9-
91   </div>
92 </div>
93
94
95 <script>
96
97   function myFunction() {
98     var x = document.getElementById("myMenu");
99     var y = document.getElementById("myButton");
100     if (x.className === "menu") {
101       x.className += " responsive";
102       y.className += " is-active";
103       y.style.pointerEvents = "none";
104       y.style.filter = "blur(1px)";
105     } else {
106       y.style.pointerEvents = "auto";
107       y.style.filter = "none";
108       x.className = "menu";
109       y.className = "hamburger";
110     }
111   }
112 </script>
113 </body>
114 </html>
master* 0 0 0 Ln 16, Col 21 Spaces: 4 UTF-8 LF html kite: initializing http://127.0.0.1:5555 Prettier
```

```
ex6.html M X
ex6.html > html > head > style > #menuButton
78 <a href="#">Home</a>
79 <a href="#">About</a>
80 <a href="#">Projects</a>
81 <a href="#">Contact</a>
82
83 <div class="w-full h-full flex items-end justify-center p-9">
84   <div class="linkLogo flex gap-[1.2rem]">
85     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
86     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
87     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xml:space="preserve" xmlns="http://www.w3.org/2000/svg" fill-rule="evenodd"
88     <svg class="w-[1.6rem]" version="1.0" viewBox="0 0 32 32" xml:space="preserve" xmlns="http://www.w3.org/2000/svg"><pat
89     <svg class="w-[1.6rem]" viewBox="0 0 512 512" xmlns="http://www.w3.org/2000/svg"><path d="M27.5 162.2 9 187,1h90.516.9-
90   </div>
91 </div>
92
93
94
95 <script>
96
97   function myFunction() {
98     var x = document.getElementById("myMenu");
99     var y = document.getElementById("myButton");
100     if (x.className === "menu") {
101       x.className += " responsive";
102       y.className += " is-active";
103       y.style.pointerEvents = "none";
104       y.style.filter = "blur(1px)";
105     } else {
106       y.style.pointerEvents = "auto";
107       y.style.filter = "none";
108       x.className = "menu";
109       y.className = "hamburger";
110     }
111   }
112 </script>
113 </body>
114 </html>
master* 0 0 0 Ln 16, Col 21 Spaces: 4 UTF-8 LF html kite: initializing http://127.0.0.1:5555 Prettier
```

