



# **INTERNET PROGRAMMING**

TP4 - JavaScript

Lecturer

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Github Account:

<https://github.com/ChhornKakada/InternetProgramming.I4/tree/main/tp4.%20JavaScript>

## ex1. Tab

```


1  <!DOCTYPE html>
2  <html Lang="en">
3
4  <head>
5    <meta charset="UTF-8">
6    <meta http-equiv="X-UA-Compatible" content="IE=edge">
7    <meta name="viewport" content="width=device-width, initial-scale=1.0">
8    <title>Tap</title>
9    <script src="tailwindcss.js"></script>
10   <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
11 </head>
12
13 <body>
14   <div class="wrapper w-[700px] border-4 border-[#1C1F2B] rounded-lg mx-auto my-[100px]
15     ■ bg-[#F1F5F8] xl:w-[1280px] shadow-lg shadow-[#292D3E]">
16     <!-- container -->
17     <div class="container w-[92%] mx-auto">
18       <center>
19         <div class="mt-[8%] xl:mt-[2.5%]">
20           <h1 class="text-[2rem]">About</h1>
21         </div>
22         <div>
23           <p>Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur.</p>
24         </div>
25       </center>
26
27       <div class="xl:flex w-full xl:justify-between content-start">
28         <!-- picture -->
29         <div class="mt-[6%] xl:w-[48%] xl:mt-[4%] xl:mb-[10%]">
30           
31         </div>
32         <!-- wrapper of text -->
33         <div class="rounded-lg w-full mt-[4%] overflow-hidden xl:w-[48%]">
34           <!-- buttons -->
35           <div class="flex w-full text-center text-[1.30rem]">
36             <div class="w-1/3 ■ bg-[#ffffff]">
37               <button id="historyBtn" class="w-full py-[2%]" onClick="moveToHistory()">History</button>
38             </div>
39             <div class="w-1/3 ■ bg-[#DBE2EC]">
40               <button id="visionBtn" class="w-full py-[2%]" onClick="moveToVision()">Vision</button>
41             </div>
42             <div class="w-1/3 ■ bg-[#DBE2EC]">
43               <button id="goalsBtn" class="w-full py-[2%]" onClick="moveToGoals()">Goals</button>
44             </div>
45           </div>
46           <!-- text -->
47           <div class="■ bg-[#FFFFFF] mb-[8%] rounded-lg">
48             <!-- container of text -->
49             <div class="w-[96%] mx-auto">
50               <div>
51                 <h1 class="text-[1.25rem] pt-[2.5%] pb-[1%]">History</h1>
52               </div>
53               <div class="pb-[5%]" id="divText">
54                 <p id="text">It is a long established fact that a reader will be distracted by the readable content of
55                   looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal
56                   distribution of letters, as opposed to using 'Content here, content here', making it look like
57                   readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their
58                   default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy.
59                   Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected
60                   humour and the like).</p>
61               </div>
62             </div>
63           </div>
64         </div>
65       </div>
66     </div>
67   </div>
68 </body>
69
70 <script src="/app.js"></script>
71
72 </body>

```

PC

## About

Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur.



History

Vision


Goals

### History

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

## About

Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur.



History

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### History

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

## ex2. Responsive Menu

```

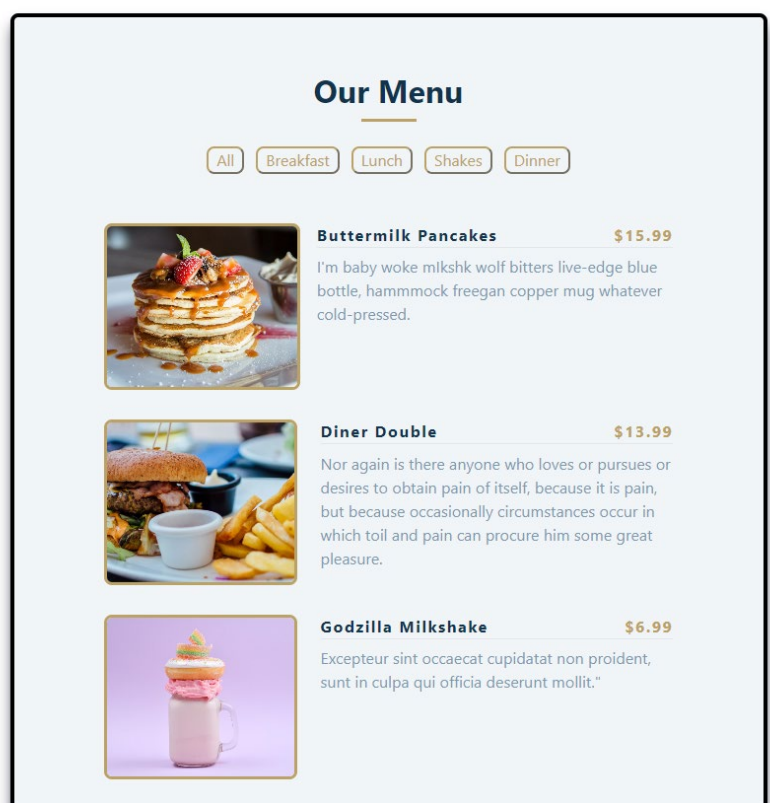
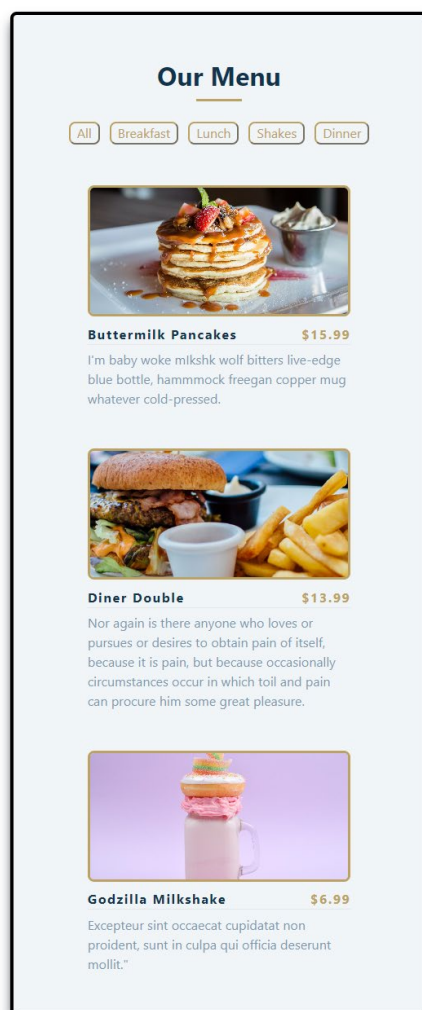
File Edit Selection View Go Run Terminal Help index.html - tp4. JavaScript - Visual Studio Code
ex2.Responsive.Menu > index.html > html > head
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta http-equiv="X-UA-Compatible" content="IE=edge">
6 <meta name="viewport" content="width=device-width, initial-scale=1.0">
7 <title>Responsive Menu</title>
8 <script src="./tailwindcss.js"></script>
9 <link rel="stylesheet" href="style.css">
10
11 </head>
12 <body>
13 <div class="wrapper max-w-lg md:max-w-3xl border-4 mx-auto rounded-lg
14 my-[50px] bg-[#F1F5F8] border-black shadow-lg shadow-[#292D3E]">
15
16 <div class="container w-[80%] mx-auto ">
17 <!-- header -->
18 <div class="text-center">
19 <center>
20 <h1 class="text-[2rem] text-[#12344E] font-bold mt-[50px]">Our Menu</h1>
21 <div class="w-[56px] h-[3px] bg-[#BCA265] self-center mt-[5px]"></div>
22 </center>
23 </div>
24
25 <!-- Menu -->
26 <div class="flex gap-[12px] justify-center mt-[25px] mb-[50px]">
27
28 <button class="menus">All</button>
29 <button class="menus">Breakfast</button>
30 <button class="menus">Lunch</button>
31 <button class="menus">Shakes</button>
32 <button class="menus">Dinner</button>
33 </div>
34
35 <!-- content -->
36 <div class="w-4/5 mx-auto md:w-full">
37 <!-- a food -->
38 <div class="md:flex md:w-[95%] md:mx-auto gap-[3%] mb-[15%] md:mb-[5%]">
39 <!-- picture -->
40 <div class="w-full md:w-[55%]">
41 
44 </div>
45 <!-- caption -->
46 <div class="w-full mt-[3%] md:mt-0">
47 <div class="flex justify-between font-bold tracking-widest">
48 <h1 class="text-[#12344E]">Buttermilk Pancakes</h1>
49 <h1 class="text-[#BCA265]">$15.99</h1>
50 </div>
51 <div class="text-[#7C9AB2]">
52 <hr>
53 <p class="mt-[2%]">I'm baby woke mIkshk wolf bitters live-edge blue bottle, hammock freegan copper mug v
54 </div>
55 </div>
56 </div>
57
58 <!-- a food -->
59 <div class="md:flex md:w-[95%] md:mx-auto gap-[4%] mb-[15%] md:mb-[5%]">
60 <!-- picture -->
61 <div class="w-full md:w-[55%]">
62 
65 </div>
66 <!-- caption -->
67 <div class="w-full mt-[3%] md:mt-0">
68 <div class="flex justify-between font-bold tracking-widest">
69 <h1 class="text-[#12344E]">Diner Double</h1>
70 <h1 class="text-[#BCA265]">$13.99</h1>
71 </div>
72 <div class="text-[#7C9AB2]">
73 <hr>
74 <p class="mt-[2%]">Nor again is there anyone who loves or pursues or desires to obtain pain of itself, t
75 </div>

```

```

72     <div class="text-[#7C9AB2]">
73       <hr>
74       <p class="mt-[2%]"> Nor again is there anyone who loves or pursues or desires to obtain pain of itself, t
75     </div>
76   </div>
77 </div>
78
79 <!-- a food -->
80 <div class="md:flex md:w-[95%] md:mx-auto gap-[4%] mb-[15%] md:mb-[5%]">
81   <!-- picture -->
82   <div class="w-full md:w-[55%]">
83     
86   </div>
87   <!-- caption -->
88   <div class="w-full mt-[3%] md:mt-0">
89     <div class="flex justify-between font-bold tracking-widest">
90       <h1 class="text-[#12344E]">Godzilla Milkshake</h1>
91       <h1 class="text-[#BCA265]">$6.99</h1>
92     </div>
93     <div class="text-[#7C9AB2]">
94       <hr>
95       <p class="mt-[2%]">Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mol
96     </div>
97   </div>
98 </div>
99 </div>
100 </div>
101 </div>
102
103 </body>
104 </html>

```





## ex3. Counter

```

index.html ex5. Responsive Navigation Bar. U  index.html ex3. Counter  # styles.css U
ex3. Counter > index.html > html > head > script
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>Counter</title>
8    <script src="./tailwindcss.js"></script>
9    <link rel="stylesheet" href="./styles.css">
10   <script src="./app.js" defer></script>
11 </head>
12 <body>
13   <div class="wrapper w-[500px] border-4 absolute left-[50%] top-[50%] translate-x-[-50%] py-[100px]
14   translate-y-[-50%] bg-[#F1F5F8] border-black shadow-lg shadow-[#292D3E] rounded-lg">
15     <center>
16       <div>
17         <h1 class="text-[2.5rem] text-[#102A42] font-bold">Counter</h1>
18       </div>
19       <div>
20         <p id="diplayNumber" class="text-[7rem] text-[#008000]"></p>
21       </div>
22       <div class="flex w-3/4 justify-evenly mt-[20px]">
23         <button class="button" onClick="decreaseNumber()">DECREASE</button>
24         <button class="button" onClick="resetNumber()">RESET</button>
25         <button class="button" onClick="increaseNumber()">INCREASE</button>
26       </div>
27     </center>
28   </div>
29 </body>
30 </html>

index.html U  JS app.js  # styles.css U
ex3. Counter > JS app.js > Counter > increase
1  var displayNumber = document.getElementById("diplayNumber");
2
3  class Counter {
4    number = 0;
5    constructor(number) { this.number = number; }
6    decrease() { this.number -= 1; }
7    increase() { this.number += 1; }
8    reset() { this.number = 0; }
9    display() { displayNumber.innerHTML = `${this.number}`; }
10 }
11
12 let numberFromLocalStorage = parseInt(localStorage.getItem("counter")) || null;
13 if (numberFromLocalStorage == null) numberFromLocalStorage = 0;
14 var counter = new Counter(numberFromLocalStorage);
15
16 counter.display();
17
18 // decrease number
19 const decreaseNumber = () => {
20   counter.decrease();
21   saveToLocalStorage(counter);
22   counter.display();
23 }
24
25 // increase number
26 const increaseNumber = () => {
27   counter.increase();
28   saveToLocalStorage(counter);
29   counter.display();
30 }
31
32 // reset number
33 const resetNumber = () => {
34   counter.reset();
35   saveToLocalStorage(counter);
36   counter.display();
37 }
38
39 // save value counter to Localstorage
40 const saveToLocalStorage = (counter) => {
41   localStorage.setItem("counter", `${counter.number}`);
42 }
43

```



## ex4. Random color generator

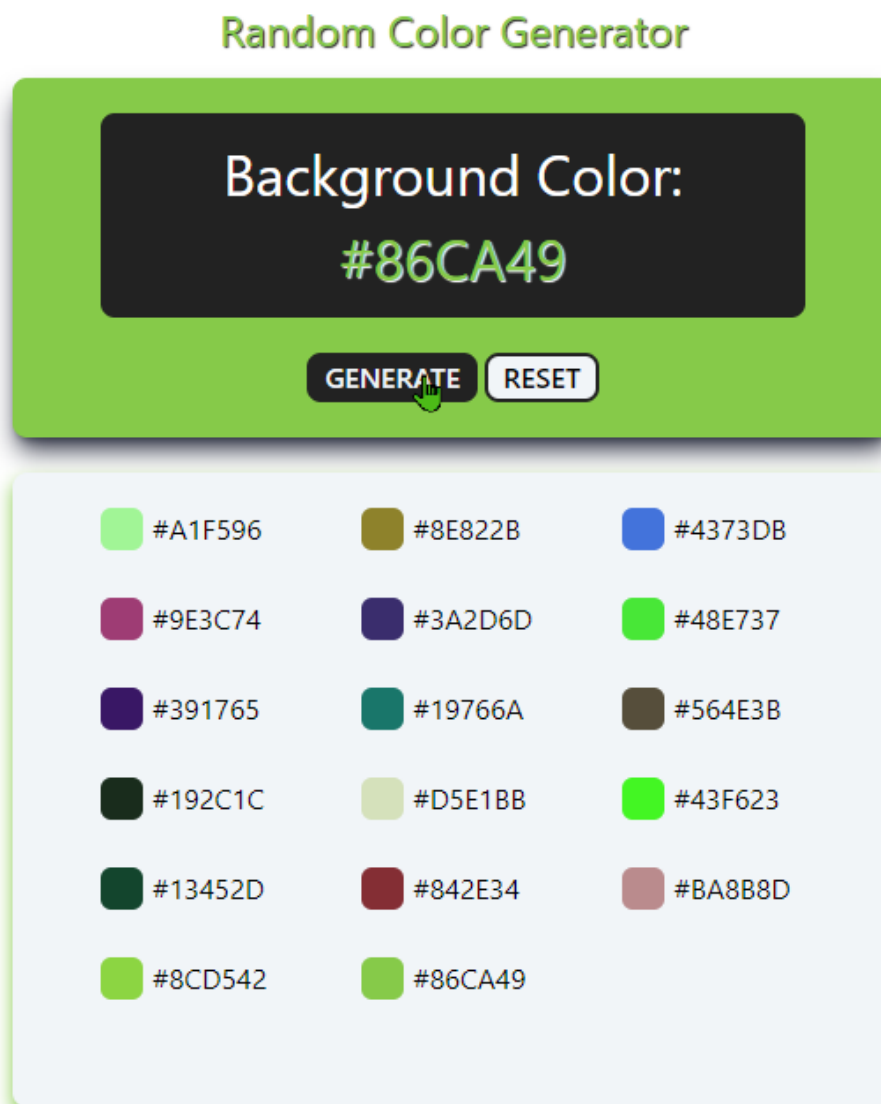
```
index.html ex5. Responsive Navigation Bar U index.html ex4. Random color generator X # styles.css U
ex4. Random color generator > index.html > html > head > title
1 <!DOCTYPE html>
2 <html Lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Responsive Navigation Bar</title>
9   <link rel="stylesheet" href="./styles.css">
10  <script src="./app.js" defer></script>
11  <script src="./tailwindcss.js"></script>
12 </head>
13
14 <body>
15   <div class="wrapper w-[500px] absolute left-[50%] top-[50%] translate-x-[-50%]
16     translate-y-[-50%] rounded-lg">
17     <div class="">
18       <center>
19         <h1 class="text-blue-500 text-[1.5rem] py-[10px]"
20           id="header">Random Color Generator</h1>
21         <div class="bg-blue-500 w-full rounded-lg mx-auto py-[20px] border-black shadow-lg
22           shadow-[#292D3E] id="boxColor">
23           <div class="w-[80%] mx-auto bg-[#222222] rounded-lg text-white text-[2rem] py-[10px]">
24             <h1 class="">Background Color: </h1>
25             <h1 id="generatedColor" >#2336FB</h1>
26           </div>
27           <div class="mt-[20px] font-medium">
28             <button class="button" onclick="generateColor()">GENERATE</button>
29             <button class="button" onclick="resetColor()">RESET</button>
30           </div>
31         </div>
32       </center>
33     <!-- content -->
34     <div class="w-full h-[400px] mt-[10px]">
35       <div class="w-full h-[90%] m-auto my-[4%] rounded-lg bg-[#F1F5F8] shadow-lg overflow-auto
36         flex flex-wrap gap-x-[11%] gap-y-[7%] justify-start content-start px-[50px] py-[20px] shadow-[#292D3E]"
37         id="colorContainer">
38       </div>
39     </div>
40   </div>
41 </body>
42 </html>
```

```

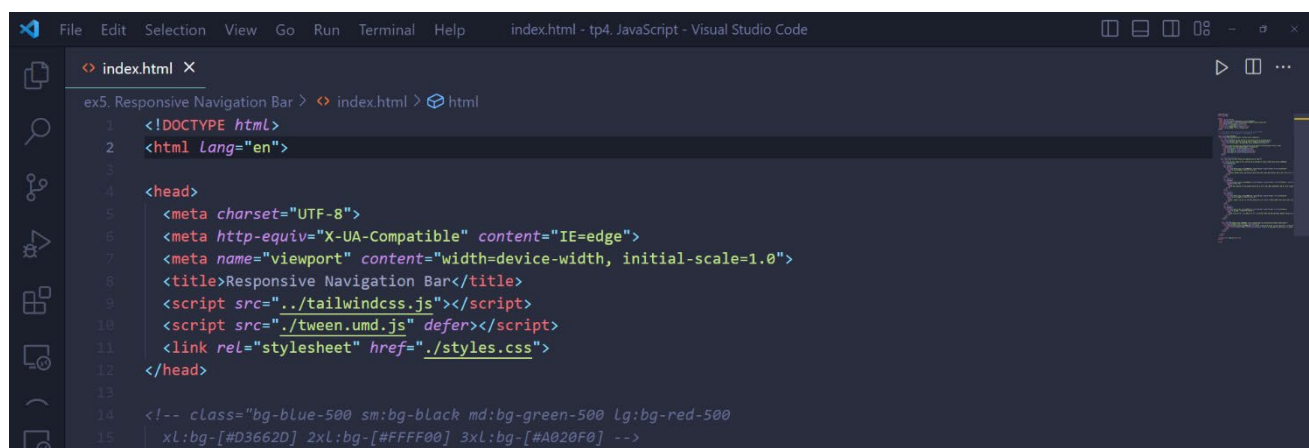
<> index.html U JS app.js X # styles.css U
ex4. Random color generator > JS app.js > Color > generate
1 var recordColors = document.getElementById("colorContainer");
2 var box = document.getElementById("boxColor");
3 var code = document.getElementById("generatedColor");
4 var header = document.getElementById("header");
5
6 class Color {
7   records = [];
8
9   constructor() {
10    this.records = this.getRecords();
11    this.display();
12    changeColor(this.records[this.records.length - 1]);
13   }
14
15   generate() {
16    const hexValue = [1, 2, 3, 4, 5, 6, 7, 8, 9, 'A', 'B', 'C', 'D', 'E', 'F'];
17    var color = '#';
18    for (let i = 0; i < 6; i++) {
19     var index = Math.floor(Math.random() * hexValue.length);
20     color += hexValue[index];
21    }
22    this.records.push(color);
23    render(color);
24    changeColor(color);
25   }
26
27   getRecords() {
28    if (localStorage.getItem("generatedColors") != null)
29     return JSON.parse(localStorage.getItem("generatedColors"))
30    else return [];
31   }
32
33   reset() {
34    this.records.length = 0;
35    recordColors.innerHTML = '';
36    changeColor("NaN");
37   }
38
39   display() {
40    this.records.forEach(color => {
41     render(color);
42    });
43   }
44 }
45
46
47 function render(color) {
48   recordColors.innerHTML += `
49   <div class="flex justify-start gap-[5%] w-[26%] h-[1.8rem]">
50     <div class="w-[1.5rem] rounded-md h-[1.5rem] bg-[${color}] active:shadow-[${color}]
51       active:shadow-lg id="${color}" onclick="changeColor(this.id)"></div>
52     <div>
53       <p>${color}</p>
54     </div>
55   </div>
56   `;
57 }
58
59 function changeColor(color) {
60   code.innerHTML = `${color}`;
61   code.style.color = `${color}`;
62   box.style.background = `${color}`;
63   header.style.color = `${color}`;
64   recordColors.style.boxShadow = `0 5px 10px ${color}`;
65 }
66
67 const colors = new Color;
68
69 const generateColor = () => {
70   colors.generate();
71   saveToLocalStorage(colors);
72 }
73
74 const resetColor = () => {
75   colors.reset();
76   saveToLocalStorage(colors);
77 }
78
79 const saveToLocalStorage = (colors) => {
80   localStorage.setItem("generatedColors", JSON.stringify(colors.records));
81 }
82

```





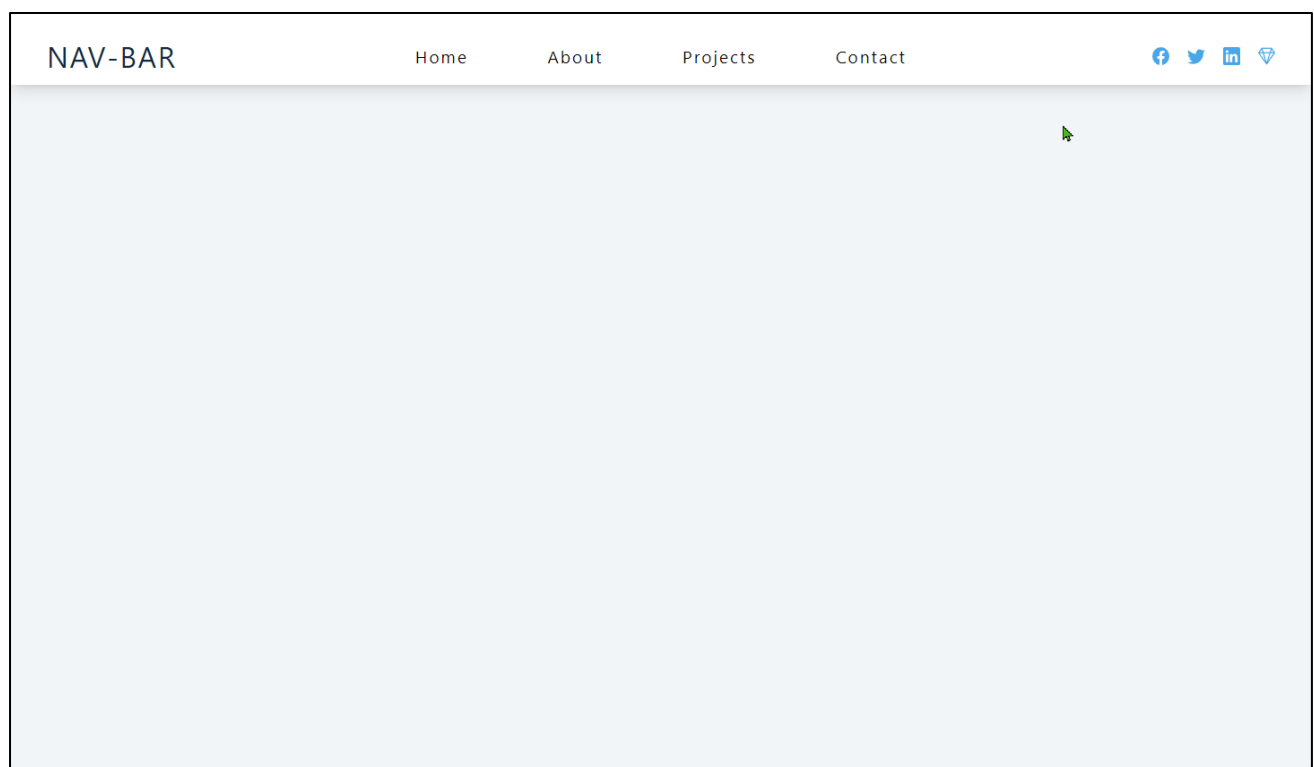
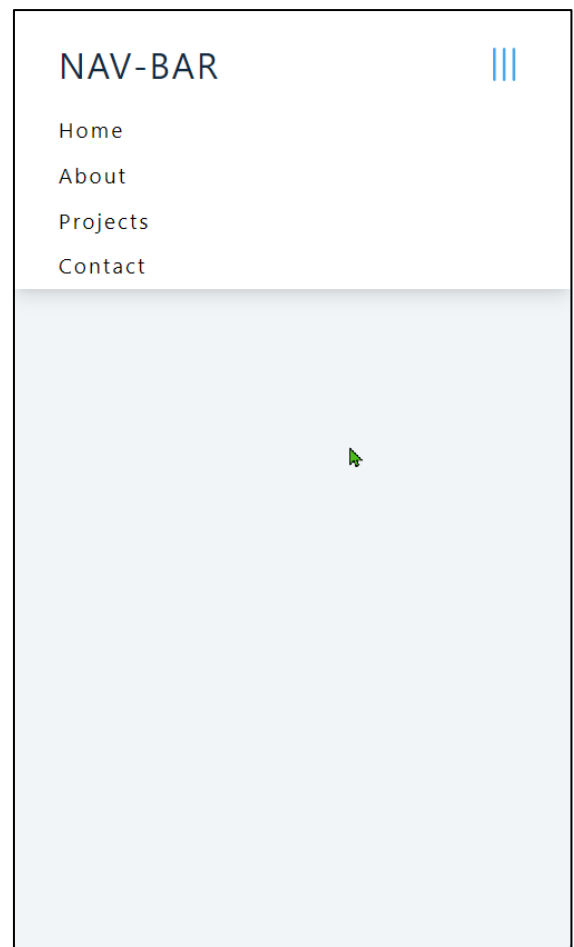
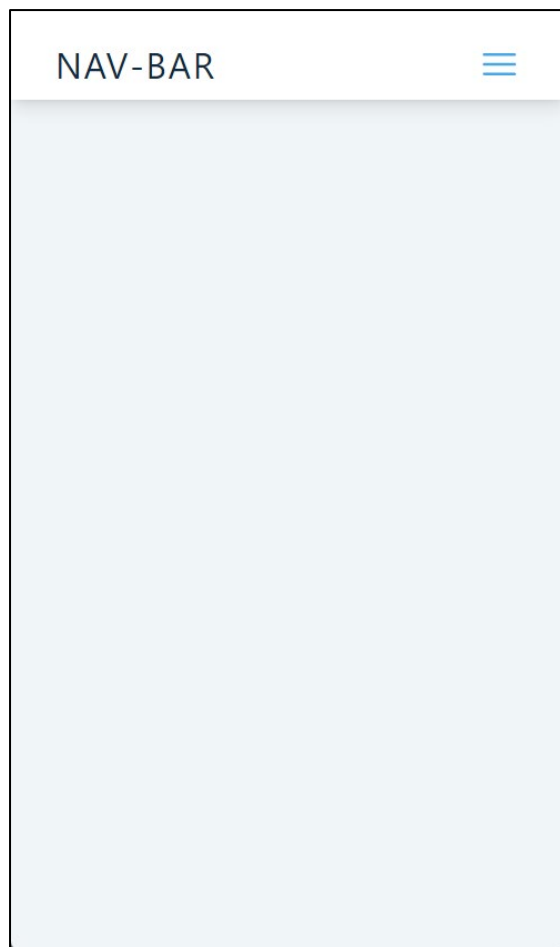
## ex5. Responsive Navigation Bar

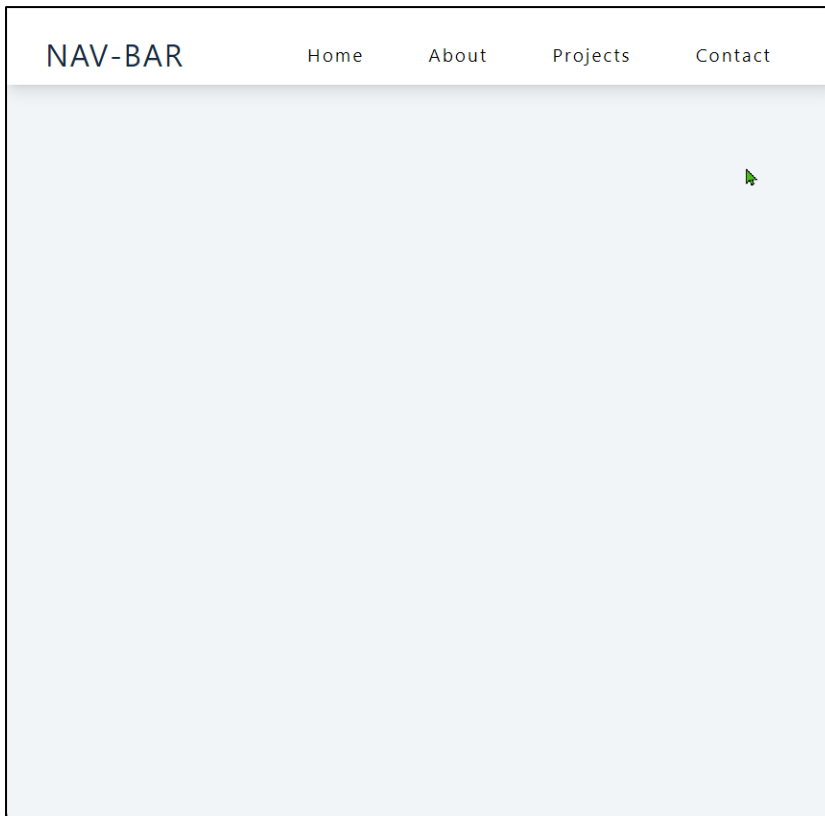


```

14 <!-- class="bg-blue-500 sm:bg-black md:bg-green-500 lg:bg-red-500
15 xl:bg-[#D3662D] 2xl:bg-[#FFF00] 3xl:bg-[#A020F0] -->
16
17 <body class="■bg-[#F1F5F8]">
18 <nav class="flex justify-between lg:items-center shadow-lg">
19 <!-- Logo and menu -->
20 <div class="■bg-white md:flex md:w-full lg:w-[2/3] w-2/3 md:h-[5rem] pt-4">
21 <div class="my-auto md:w-1/4 ml-10 lg:w-1/3 h-[4rem] flex items-center">
22 <h1 class="text-[2rem] tracking-wider □text-[#102A42]">NAV-BAR</h1>
23 </div>
24 <div class="md:flex md:w-3/4 justify-evenly ml-10 md:ml-0 tracking-widest text-[1.2rem]
25 items-center overflow-hidden hidden" id="menuList">
26 <div class="my-3"><a href="#">Home</a></div>
27 <div class="my-3"><a href="#">About</a></div>
28 <div class="my-3"><a href="#">Projects</a></div>
29 <div class="my-3"><a href="#">Contact</a></div>
30 </div>
31 </div>
32
33 <!-- icons and ListIcon -->
34 <div class="lg:w-1/3 md:h-[5rem] pt-4 ■bg-white w-1/3 md:w-0">
35 <!-- icons -->
36 <div class="lg:flex hidden w-full justify-end pr-10 gap-5 h-[4rem] items-center ■text-[#49A6E9]"
37 id="iconContainer">
38 <!-- facebook -->
39 <div class="">
40 <a href="#">
41 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
42 class="bi bi-facebook" viewBox="0 0 16 16">
43 <path
44 d="M16 8.049c0-4.446-3.582-8.05-8.05-8.05c3.58 0-.002 3.603-.002 8.05c0 4.017 2.926 7.347 6.75 7.951v-5.6;
45 </svg>
46 </a>
47 </div>
48 <!-- twitter -->
49 <div class="">
50 <a href="#">
51 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor" class="bi bi-tw;
52 viewBox="0 0 16 16">
53 <path
54 d="M5.026 15c6.038 0 9.341-5.003 9.341-9.334 0-.14 0-.282-.006-.422A6.685 6.685 0 0 16 3.542a6.685 6.
55 </svg>
56 </a>
57 </div>
58 <!-- LinkedIn -->
59 <div class="">
60 <a href="#">
61 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
62 class="bi bi-linkedin" viewBox="0 0 16 16">
63 <path
64 d="M0 1.146C0 .513.526 0 1.175 0h13.65C15.474 0 16 .513 16 1.146v13.708c0 .633-.526 1.146-1.175 1.146H;
65 </svg>
66 </a>
67 </div>
68 <!-- gem -->
69 <div class="">
70 <a href="#">
71 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
72 class="bi bi-gem" viewBox="0 0 16 16">
73 <path
74 d="M3.17a5.5 0 1 .4-.2h9a.5 0 1 1 .4.2l2.976 3.974c.149.185.156.45.01.644L8.4 15.3a.5 0 1 -.8
75 </svg>
76 </a>
77 </div>
78 </div>
79
80 <!-- List Icon -->
81 <div class="md:hidden ■text-[#49A6E9] w-full content-end flex justify-end h-[4rem] items-center">
82 <div class="ml-auto mr-10" id="list" onclick="run()">
83 <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentCo;
84 <path stroke-linecap="round" stroke-linejoin="round" d="M3.75 6.75h16.5M3.75 12h16.5M3.75 16.5h16.5" />
85 </svg>
86 </div>
87 </div>
88
89 </div>
90 </nav>
91
92 <script src="./app.js"></script>
93 </body>
94
95 </html>

```





## ex6. Side Bar

[illegible]



```

35 </div>
36
37 <div class="text-[1.3rem] text-[#6B7D98]" >
38 <div class="my-4"><a class="menu" href="#">Home</a></div>
39 <div class="my-4"><a class="menu" href="#">About</a></div>
40 <div class="my-4"><a class="menu" href="#">Projects</a></div>
41 <div class="my-4"><a class="menu" href="#">Contact</a></div>
42 </div>
43 <!-- icons -->
44 <div class="" style="height: fit-content;" id="iconContainer">
45 <!-- icons -->
46 <div class="flex gap-4 text-[#49A6E9] justify-center" id="iconContainer">
47 <!-- facebook -->
48 <div class="">
49 <a href="#">
50 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
51 class="bi bi-facebook" viewBox="0 0 16 16">
52 <path
53 d="M16 8.049c0-4.446-3.582-8.05-8.05C3.58 0-.002 3.603-.002 8.05c0 4.017 2.926 7.347 6.75 7.951v-5.
54 </svg>
55 </a>
56 </div>
57 <!-- twitter -->
58 <div class="">
59 <a href="#">
60 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
61 class="bi bi-twitter" viewBox="0 0 16 16">
62 <path
63 d="M5.026 15c6.038 0 9.341-5.003 9.341-9.334 0-.14 0-.282-.006-.422A6.685 6.685 0 0 0 16 3.542a6.658
64 </svg>
65 </a>
66 </div>
67 <!-- linkedin -->
68 <div class="">
69 <a href="#">
70 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
71 class="bi bi-linkedin" viewBox="0 0 16 16">
72 <path
73 d="M0 1.146C0 .513 0.513 0 1.175 0h13.65C15.474 0 16 .513 16 1.146v13.708c0 .633-.526 1.146-1.175 1.146
74 </svg>
75 </a>
76 </div>
77 <!-- gem -->
78 <div class="">
79 <a href="#">
80 <svg xmlns="http://www.w3.org/2000/svg" width="19.2px" height="19.2px" fill="currentColor"
81 class="bi bi-gem" viewBox="0 0 16 16">
82 <path
83 d="M3.17a5.5 0 0 1 .4-.2h9a.5 0 0 1 .4.2l2.974c3.974c.149.185.156.45.01.644L8.4 15.3a.5 0 0 1-.
84 </svg>
85 </a>
86 </div>
87 </div>
88 </div>
89 </div>
90
91 <div></div>
92
93 <!-- lists -->
94 <div class="mt-7 mr-5 text-[#49A6E9]">
95 <div class="" id="list">
96 <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
97 class="w-[2.5rem] h-[2.5rem] font-bold">
98 <path stroke-linecap="round" stroke-linejoin="round" d="M3.75 6.75h16.5m3.75 12h16.5m-16.5 5.25h16.5" />
99 </svg>
100 </div>
101 </div>
102 </nav>
103
104 <script src="./app.js"></script>
105 </body>
106
107 </html>

```

