



Institute of Technology of Cambodia



Department of Information and Communication Engineering

I4-GIC-C

Internet Programming I

Lecturer: HOK Tin

ReportTP04: JavaScript

Student name: SUN VYSING

Student ID: e20191124

Exercise 1

```
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>exel</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9   <style>
10     @media only screen and (max-width: 1000px){
11       #wrapper{
12         flex-direction: column;
13       }
14     }
15   </style>
16 </head>
17 <body class="w-full flex justify-center items-center">
18   <div class="w-[65%] bg-[#f1f5f8] border-4 border-black p-8 m-auto">
19     <div>
20       <h1 class="flex justify-center text-[30px]"><strong>About</strong></h1>
21       <p class="flex justify-center">Lorem ipsum dolor sit amet consectetur adipiscing elit</p>
22     </div>
23     <div id="wrapper" class="w-full flex">
24       <div class="w-full py-4">
25         
26       </div>
27       <div class="w-full pt-4">
28         <div class="flex w-full h-[8%] bg-[#d8e2ec] rounded-t-lg">
29           <button id="history" class="w-1/3 rounded-tl-lg hover:lg-[#f1f5f8]" type="button">History</button>
30           <button id="vision" class="w-1/3 hover:lg-[#f1f5f8]" type="button">Vision</button>
31           <button id="goals" class="w-1/3 rounded-tr-lg hover:lg-[#f1f5f8]" type="button">Goals</button>
32         </div>
33         <div id="content" class="bg-white w-full rounded-b-lg p-2"></div>
34       </div>
35     </div>
36   </div>
37 </body>
38 </html>
39
40 <script>
41   var historyBtn = document.getElementById('history')
42   var visionBtn = document.getElementById('vision')
43   var goalsBtn = document.getElementById('goals')
44   var content = document.getElementById('content')
45
46   function selectFirstTab(){
47     historyBtn.style.backgroundColor = "white"
48     visionBtn.style.backgroundColor = "#d8e2ec"
49     goalsBtn.style.backgroundColor = "#d8e2ec"
50
51     content.innerHTML =
52     <div><strong>History</strong></div>
53     <div>I'm baby wolf pickled schultz try-hard normcore marfa man bun mumblecore vice pop-up XOXO lomo kombucha
54       glossier bicycle rights. Umami kinfolk salvia jean shorts offal venmo. Knausgaard tilde try- hard, woke
55       fixie banjo man bun. Small batch tumeric mustache toh wayfarers 8-bit shaman chartreuse tacos. Viral direct
56       trade hoodie ugh chambray, craft beer pork belly flannel tacos single- origin coffee art party migas plaid
57       pop-up</div>
58   }
59   selectFirstTab();
60
61   historyBtn.addEventListener("click", () => {
62     selectFirstTab();
63   });
64
65   visionBtn.addEventListener("click", () =>{
66     historyBtn.style.backgroundColor = "#d8e2ec"
67     visionBtn.style.backgroundColor = "white"
68     goalsBtn.style.backgroundColor = "#d8e2ec"
69
70     content.innerHTML =
71     <div><strong>Vision</strong></div>
72     <div>Man bun PBR&B keytar copper mug prism, hell of helvetica. Synth crucifix offal deep v hella biodiesel.
73       Church-key listicle polaroid put a bird on it chillwave palo santo enamel pin, tattooed meggings franzen
74       la croix cray. Retro yr aesthetic four loko toh helvetica air plant, neutra palo santo tofu mumblecore.
75       Hoodie bushwick pour-over jean shorts chartreuse shabby chic. Roof party hammock master cleanse pop-up
76       truffaut, bicycle rights skateboard affogato readymade sustainable deep v live-edge schultz narwhal</div>
77   }
78
79   goalsBtn.addEventListener("click", () =>{
80     historyBtn.style.backgroundColor = "#d8e2ec"
81     visionBtn.style.backgroundColor = "#d8e2ec"
82     goalsBtn.style.backgroundColor = "white"
83
84     content.innerHTML =
85     <div>
86       <strong>Goals</strong>
87       <p>Anyone whose goal is 'something higher' must expect someday to suffer vertigo. What is vertigo? Fear
88         of falling? No, Vertigo is something other than fear of falling. It is the voice of the emptiness below
89         us which tempts and lures us, it is the desire to fall, against which, terrified, we defend ourselves.
90       </p></div>
91   })
92
93 </script>
94 </body>
95 </html>
```

About

Lorem ipsum dolor sit amet consectetur
adipiscing elit!



History

Vision

Goals

Histone

I'm baby wolf pickled schlitz try-hard normcore marfa man bun mumblecore vice pop-up XOXO lomo kombucha glossier bicycle rights. Umami kinfolk salvia jean shorts offal venmo. Knausgaard tilde try- hard, woke fixie banjo man bun. Small batch tumeric mustache tbh wayfarers 8-bit shaman chartreuse tacos. Viral direct trade hoodie ugh chambray, craft beer pork belly flannel tacos single- origin coffee art party migas plaid pop-up

About

Lorem ipsum dolor sit amet consectetur adipiscing elit!



History

Vision

Goals

Histone

I'm baby wolf pickled schlitz try-hard normcore marfa man bun mumblecore vice pop-up XOXO lomo kombucha glossier bicycle rights. Umami kinfolk salvia jean shorts offal venmo. Knausgaard tilde try- hard, woke fixie banjo man bun. Small batch tumeric mustache tbh wayfarers 8-bit shaman chartreuse tacos. Viral direct trade hoodie ugh chambray, craft beer pork belly flannel tacos single- origin coffee art party migas plaid pop-up

Exercise 2

```
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>exe2</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9   <style>
10    .imgr{
11      height: 300px;
12    }
13    img{
14      object-fit: cover;
15    }
16    @media only screen and (max-width: 1000px){
17      .my-6{
18        flex-direction: column;
19      }
20      .imgr{
21        height: 300px;
22      }
23      img{
24        object-fit: cover;
25      }
26      #wrapper{
27        width: 90%;
28      }
29    }
30  </style>
31 </head>
32 <body class="w-full flex justify-center ">
33   <div id="wrapper" class="w-[60%] bg-[#f1f5f8] border-4 border-black p-8">
34     <div class="text-center text-[#182e3f] text-[40px]"><strong>Our Menu</strong></div>
35     <div class="flex justify-center py-6">
36       <div class="bg-[#c29c69] w-[20%] h-1"></div>
37     </div>
38     <div class="flex justify-center gap-2 text-[#c29c69] ">
39       <button class="border-2 border-[#c29c69] rounded-lg w-8 hover:bg-[#c29c69] hover:text-white" type="button">All</button>
40       <button class="border-2 border-[#c29c69] rounded-lg w-20 hover:bg-[#c29c69] hover:text-white" type="button">Breakfast</button>
41       <button class="border-2 border-[#c29c69] rounded-lg w-14 hover:bg-[#c29c69] hover:text-white" type="button">Lunch</button>
42       <button class="border-2 border-[#c29c69] rounded-lg w-16 hover:bg-[#c29c69] hover:text-white" type="button">Shakes</button>
43       <button class="border-2 border-[#c29c69] rounded-lg w-14 hover:bg-[#c29c69] hover:text-white" type="button">Dinner</button>
44     </div>
45     <div class="my-6 w-full flex ">
46       <div class="imgr w-[100%] mr-8 border-4 border-[#c29c69] rounded-lg ">
47         
48       </div>
49       <div class="w-full">
50         <div class="flex justify-between">
51           <div class="text-[#182e3f]"><strong>Buttermilk Pancakes</strong></div>
52           <div class="text-[#c29c69]"><strong>$ 13.99</strong></div>
53         </div>
54         <div class="w-full h-[1px] bg-[#182e3f] my-2"></div>
55         <div class="text-[#858c92]">I'm baby woke mlkshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed</div>
56       </div>
57     </div>
58     <div class="my-6 w-full flex">
59       <div class="imgr w-[100%] mr-8 border-4 border-[#c29c69] rounded-lg ">
60         
61       </div>
62       <div class="w-full">
63         <div class="flex justify-between">
64           <div class="text-[#182e3f]"><strong>Diner Double</strong></div>
65           <div class="text-[#c29c69]"><strong>$ 13.99</strong></div>
66         </div>
67         <div class="w-full h-[1px] bg-[#182e3f] my-2"></div>
68         <div class="text-[#858c92]">vaporware iPhone mumblecore selvage raw denim slow-carb leggings gochujang helvetica man braid jianbing. Marfa thundercats</div>
69       </div>
70     </div>
71     <div class="my-6 w-full flex">
72       <div class="imgr w-[100%] mr-8 border-4 border-[#c29c69] rounded-lg ">
73         
74       </div>
75       <div class="w-full">
76         <div class="flex justify-between">
77           <div class="text-[#182e3f]"><strong>Godzilla Milkshake</strong></div>
78           <div class="text-[#c29c69]"><strong>$ 6.99</strong></div>
79         </div>
80         <div class="w-full h-[1px] bg-[#182e3f] my-2"></div>
81         <div class="text-[#858c92]">ombucha chillwave fanny pack 3 wolf moon street art photo booth before they sold out organic viral</div>
82       </div>
83     </div>
84   </div>
85 </body>
86 </html>
```

Our Menu

- All
- Breakfast
- Lunch
- Shakes
- Dinner



Buttermilk Pancakes \$ 13.99

I'm baby woke mlkshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed



Diner Double \$ 13.99

vaporware iPhone mumblecore selvage raw denim slow-carb leggings gochujang helvetica man braid jianbing. Marfa thundercats



Godzilla Milkshake \$ 6.99

ombucha chillwave fanny pack 3 wolf moon street art photo booth before they sold out organic viral

Our Menu

All Breakfast Lunch Shakes Dinner



Buttermilk Pancakes \$ 13.99

i'm baby woke mlkshk wolf bitters live-edge blue bottle, hammock
freegan copper mug whatever cold-pressed



Diner Double \$ 13.99

vaporware iPhone mumblecore selvage raw denim slow-carb leggings
gochujang helvetica man braid jianbing. Marfa thundercats



Godzilla Milkshake \$ 6.99

ombucha chillwave fanny pack 3 wolf moon street art photo booth
before they sold out organic viral

Exercise 3

```
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>exe3</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9 </head>
10 <body class="w-full flex justify-center">
11   <div class="w-[50%] border-4 border-black p-2">
12     <div class="bg-[#f1f5f8] p-2 py-[70%]">
13       <div class="flex justify-center text-[#102a42] text-[50px]"><strong>Counter</strong></div>
14       <div id="counter" class="flex justify-center text-[70px]"></div>
15       <div class="flex justify-center gap-[5%]">
16         <button id="decrease" class="border-2 border-black rounded px-3 hover:!bg-black hover:!text-white" type="button">DECREASE</button>
17         <button id="reset" class="border-2 border-black rounded px-3 hover:!bg-black hover:!text-white" type="button">RESET</button>
18         <button id="increase" class="bg-black text-white border-2 border-black rounded px-3 hover:!bg-white hover:!text-black"
19           type="button">INCREASE</button>
20       </div>
21     </div>
22   </div>
23 </div>
24 <script>
25   var result_counter = document.getElementById("counter")
26   var decreaseBtn = document.getElementById("decrease")
27   var resetBtn = document.getElementById("reset")
28   var increaseBtn = document.getElementById("increase")
29   class Counter{
30     num = 0;
31     constructor(){
32       result_counter.innerHTML = localStorage.getItem("counter");
33     }
34     decrease(){
35       this.num -= 1;
36       return this.num;
37     }
38     reset(){
39       this.num = 0;
40       return this.num;
41     }
42     increase(){
43       this.num += 1;
44       return this.num;
45     }
46   }
47
48   var counter = new Counter();
49
50   function decrease(){
51     localStorage.setItem("counter",counter.decrease());
52     result_counter.innerHTML = localStorage.getItem("counter");
53   }
54
55   function reset(){
56     localStorage.setItem("counter",counter.reset());
57     result_counter.innerHTML = localStorage.getItem("counter")
58   }
59
60   function increase(){
61     localStorage.setItem("counter",counter.increase());
62     result_counter.innerHTML = localStorage.getItem("counter");
63   }
64
65   decreaseBtn.addEventListener("click",decrease)
66   resetBtn.addEventListener("click",reset)
67   increaseBtn.addEventListener("click",increase)
68
69 </script>
70 </body>
71 </html>
```

Counter

4

DECREASE

RESET

INCREASE

Exercise 4

```
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>exe4</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9 </head>
10 <body class="w-full h-[100vh] flex justify-center items-center onload=color.displayColor()">
11   <div class="w-[50%] h-full bg-[#f5f5f5] border-4 border-black p-2">
12     <div class="bg-white w-full h-full">
13       <div class="text-[#4ba8e9] p-5 "><strong>Random Color Generator</strong></div>
14
15       <div class="wrapper py-3 px-1">
16         <div class="bg-black rounded py-4 mb-4">
17           <div class="flex justify-center text-white"><strong>Background Color:</strong></div>
18           <div id="code" class="flex justify-center text-white"></div>
19         </div>
20         <div class="flex justify-center gap-[5%]">
21           <button id="generate" class="bg-black border-2 border-black text-white rounded py-2 px-4 onclick=color.generate()"
22             type="button">GENERATE</button>
23           <button id="reset" class="border-2 border-black rounded py-2 px-4 onclick=color.reset()" type="button">RESET</button>
24         </div>
25       </div>
26       <div id="display" class="h-1/3 bg-white overflow-y-scroll p-2"></div>
27     <div class="wrapper w-full h-1/3"></div>
28   </div>
29 </body>
30 <script>
31   class Color {
32     colorType = "HEX";
33     records = [];
34
35     constructor(type){
36       this.colorType = type;
37       // this.records=[]
38       this.getRecords();
39       // console.log(this.records);
40     }
41
42     generate() {
43       let color = this.getRandomNumber();
44       // console.dir(this.records);
45
46       this.records.push(color);
47       localStorage.setItem('colorGen', JSON.stringify(this.records));
48       this.displayColor();
49     }
50     displayColor(){
51       // console.log(this.records);
52
53       document.getElementById("display").innerHTML = "";
54       document.getElementsByClassName("wrapper")[0].style.backgroundColor = this.records[this.records.length-1];
55       document.getElementsByClassName("wrapper")[1].style.backgroundColor = this.records[this.records.length-1];
56       document.getElementById("code").innerHTML = this.records[this.records.length-1];
57
58       for(let i=this.records.length-1; i>=0; i--){
59         document.getElementById("display").innerHTML += `<div class="text">${this.records[i]}<div class="square" style="background-color: ${this.records[i]}></div> </div>`
60       }
61     }
62
63     getRandomNumber(){
64       var letters = '0123456789ABCDEF';
65       var color = '#';
66       for (var i = 0; i < 6; i++) {
67         color += letters[Math.floor(Math.random() * 16)];
68       }
69       return color;
70     }
71     getRecords(){
72       this.records =localStorage.getItem("colorGen")!=null? JSON.parse(localStorage.getItem('colorGen')):[];
73       // console.log(this.records);
74     }
75     reset(){
76       this.records = [];
77       localStorage.setItem('colorGen', JSON.stringify(this.records));
78       document.getElementById("display").innerHTML = "";
79       document.getElementsByClassName("wrapper")[0].style.backgroundColor = "unset";
80       document.getElementsByClassName("wrapper")[1].style.backgroundColor = "unset";
81     }
82   }
83   var color = new Color("HEX");
84 </script>
85 </body>
86 </html>
```

Random Color Generator

Background Color:
#0647DC

GENERATE

RESET

#0647DC
#F60AE7
#214CAD
#EC0544
#5F7288
#5D9724
#820A94
#99C284
#FEF3D7



Exercise 5

```
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>exe5</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9   <script src="tween.umd.js"></script>
10  <style>
11    #bars{
12      display: none;
13    }
14    #output{
15      display: none;
16    }
17
18    @media only screen and (max-width: 800px) {
19      #content{
20        display: none;
21      }
22      #icon{
23        display: none;
24      }
25      #bars{
26        display: flex;
27      }
28      #output{
29        display: block;
30      }
31    }
32  </style>
33 </head>
34 <body class="w-full flex justify-center">
35   <div class="w-[90%] bg-[#f1f5f8] border-8 border-black p-2">
36
37     <div class="bg-white w-full flex justify-between px-4">
38
39       <div class="text-[#102a42] text-[200%]"><strong>NAV-BAR</strong></div>
40
41       <div id="content" class="w-1/3 flex items-center justify-between">
42         <span>Home</span>
43         <span>About</span>
44         <span>Projects</span>
45         <span>Contact</span>
46       </div>
47
48       <div id="icon" class="w-1/5 flex items-center gap-[10%]">
49         <div class="w-1/5">
50           
51         </div>
52         <div class="w-1/5">
53           
54         </div>
55         <div class="w-1/5">
56           
57         </div>
58         <div class="w-1/5">
59           
60         </div>
61         <div class="w-1/5">
62           
63         </div>
64       </div>
65       <div id="bars" class="flex items-center">
66         <button id="bar" type="button">
67           <svg onclick="run()" xmlns="http://www.w3.org/2000/svg" fill="none"
68             viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor" class="w-6 h-6">
69             <path stroke-linecap="round" stroke-linejoin="round" d="M3.75 6.75h16.5M3.75 11.25h16.5M3.75 15.75h16.5" />
70           </svg>
71         </button>
72       </div>
73     </div>
74
```

```
1     </div>
2     <!-- hidden -->
3     <div id="output" class="bg-white w-full h-0 px-4 overflow-hidden">
4         <div>Home</div>
5         <div>About</div>
6         <div>Projects</div>
7         <div>Contact</div>
8     </div>
9 </div>
10 <script>
11     var barsBtn = document.getElementById('bar')
12     var output = document.getElementById('output')
13     var pos = {start: 0, end: 170}
14     function render(x){
15         // output.style.position = 'absolute';
16         output.style.height = x+'px';
17         barsBtn.style.rotate = -(x/1.88888)+"deg"
18     }
19     function animate() {
20         requestAnimationFrame(animate)
21         TWEEN.update()
22     }
23     requestAnimationFrame(animate)
24     const init = (start, End) => {
25         const coords = { x: start}
26         const tween = new TWEEN.Tween(coords)
27             .to({ x:End}, 500)
28             .easing(TWEEN.Easing.Quadratic.out)
29             .onUpdate(() => {
30                 render(coords.x)
31                 let tmp = pos.start
32                 pos.start = pos.end
33                 pos.end = tmp
34             })
35             .start()
36     }
37     function run () {
38         init(pos.start, pos.end)
39     }
40 </script>
41 </body>
42 </html>
```

NAV-BAR



NAV-BAR



Home
About
Projects
Contact

NAV-BAR

Home

About

Projects

Contact

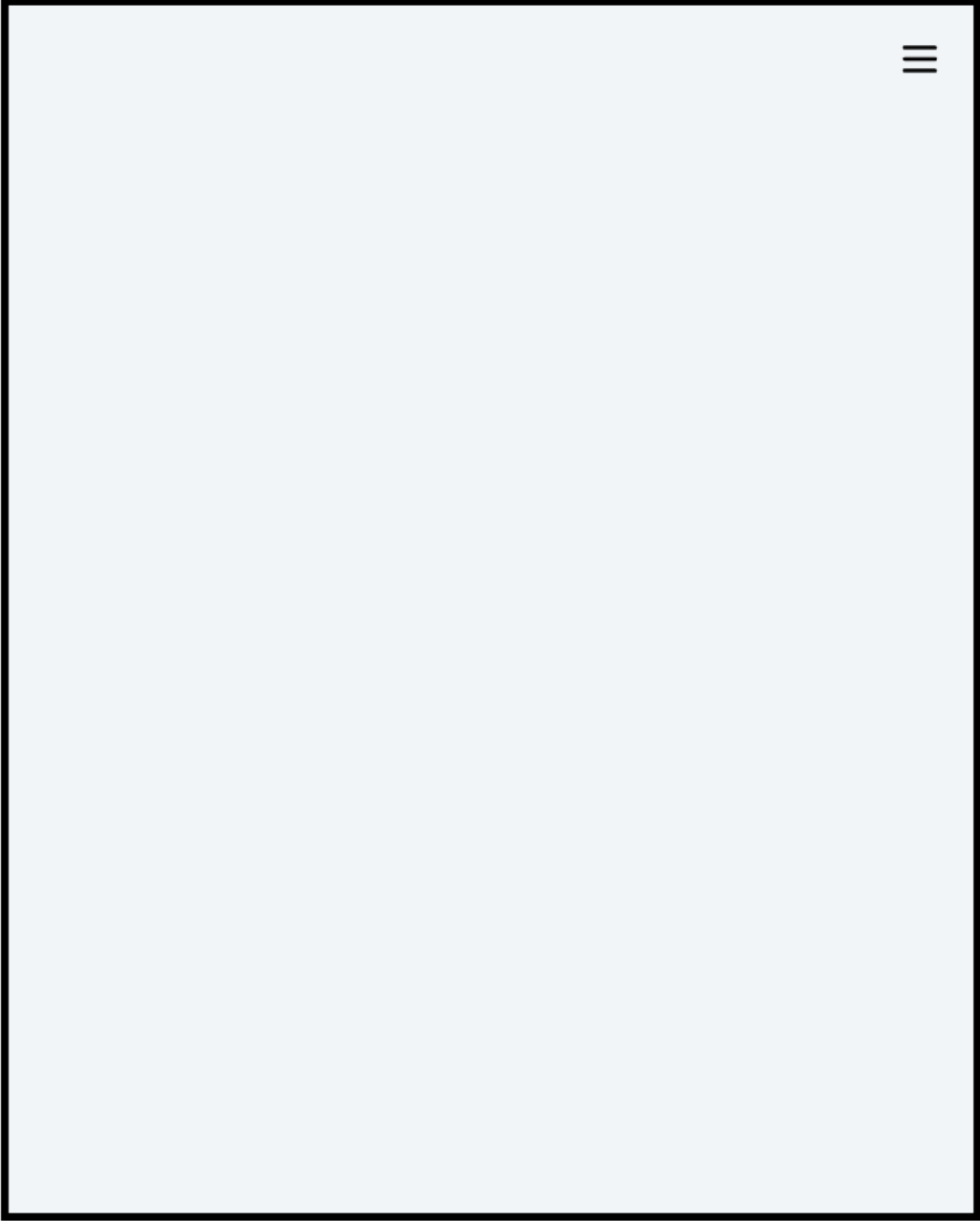


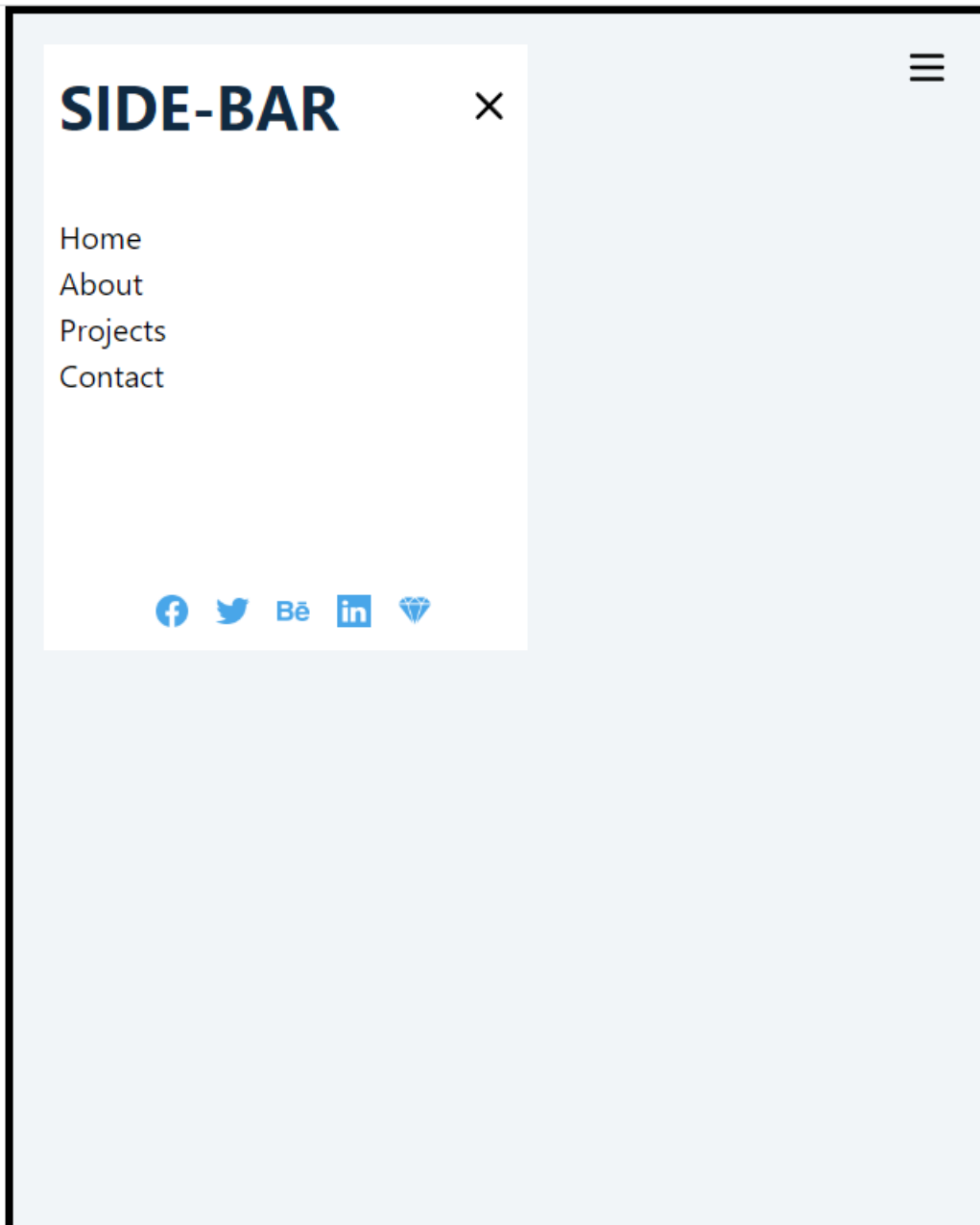
Bē



Exercise 6

```
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>exe6</title>
8   <script src="https://cdn.tailwindcss.com"></script>
9   <script src="tween.umd.js"></script>
10  <style>
11    #navLink{
12      position: absolute;
13      right: 130%;
14      transition: 1s;
15    }
16  </style>
17 </head>
18 <body class="w-full h-[90vh] flex justify-center">
19   <div class="w-[80%] h-full border-4 border-black bg-[#f1f5f8] p-4 relative flex justify-end items-start">
20     <div id="navLink" class="w-[50%] h-[50%] bg-white ml-4 p-2">
21       <div class="flex justify-between">
22         <div class="text-[#102a42] text-[200%]"><strong>SIDE-BAR</strong></div>
23         <button onClick="hideMenu()">
24           <svg xmlns="http://www.w3.org/2000/svg" class="h-6 w-6" fill="none" viewBox="0 0 24 24"
25             stroke="currentColor" stroke-width="2">
26             <path stroke-linecap="round" stroke-linejoin="round" d="M6 18L18 6M6 6 12 12" />
27           </svg>
28         </button>
29       </div>
30       <div class="pt-8 pb-[40%]">
31         <div>Home</div>
32         <div>About</div>
33         <div>Projects</div>
34         <div>Contact</div>
35       </div>
36       <div id="icon" class="flex absolute bottom-3 px-[20%] gap-[10%]">
37         <div class="w-1/5">
38           
39         </div>
40         <div class="w-1/5">
41           
42         </div>
43         <div class="w-1/5">
44           
45         </div>
46         <div class="w-1/5">
47           
48         </div>
49         <div class="w-1/5">
50           
51         </div>
52       </div>
53     </div>
54     <button onClick="showMenu()" type="button">
55       <svg xmlns="http://www.w3.org/2000/svg" class="h-6 w-6" fill="none" viewBox="0 0 24 24" stroke="currentColor"
56         stroke-width="2">
57         <path stroke-linecap="round" stroke-linejoin="round" d="M4 6h16M4 12h16M4 18h16" />
58       </svg>
59     </button>
60   </div>
61   <script>
62     var navLink = document.getElementById("navLink");
63     function showMenu(){
64       navLink.style.left = "0%";
65     }
66     function hideMenu(){
67       navLink.style.left = "-80%";
68     }
69   </script>
70 </body>
71 </html>
```



Github:https://github.com/vysingsun/Internet_programming/tree/master/TP4