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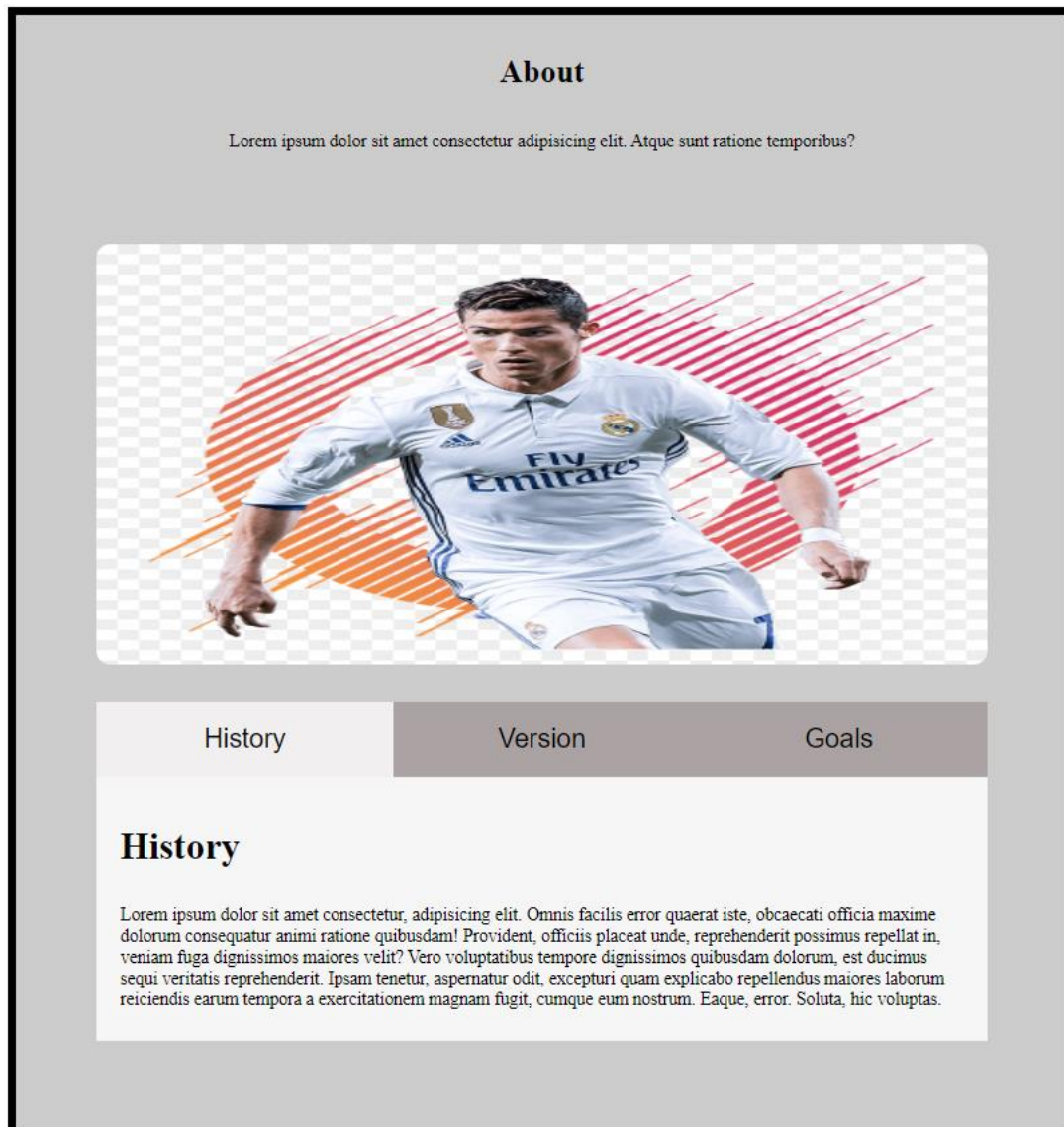
Result TP04 Internet Programing

Exercise01: Design following UI to have 3 tabs.

```html
88  <body>
89      <div class="container">
90          <div class="main_box">
91              <header>About</header>
92              <div class="text">
93                  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Atque sunt ratione temporibus?</p>
94              </div>
95              <div class="image">
96                  <img src="./cristiano-ronaldo-669725.png" alt="">
97                  <div class="content">
98                      <button class="menu" onclick="openCity(event, 'History')">History</button>
99                      <button class="menu" onclick="openCity(event, 'Version')">Version</button>
100                     <button class="menu" onclick="openCity(event, 'Goals')">Goals</button>
101                 </div>
102                 <div id="History" class="sub_content">
103                     <h3>History</h3>
104                     <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Omnis facilis error quaerat iste, obcaecati offic
105                 </div>
106
107                 <div id="Version" class="sub_content">
108                     <h3>Version</h3>
109                     <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatibus praesentium suscipit tempora ullam ea
110                 </div>
111                 <div id="Goals" class="sub_content">
112                     <h3>Goals</h3>
113                     <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Omnis dicta corporis nemo quaerat accusamus nisi
114                 </div>
115             </div>
116         </div>
117     </div>
118     <script>
119         function openCity(evt, cityName) {
120             var i, sub_content, menu;
121             sub_content = document.getElementsByClassName("sub_content");
122             for (i = 0; i < sub_content.length; i++) {
123                 sub_content[i].style.display = "none";
124             }
125             menu = document.getElementsByClassName("menu");
126             for (i = 0; i < menu.length; i++) {
127                 menu[i].className = menu[i].className.replace(" active", "");
128             }
129             document.getElementById(cityName).style.display = "block";
130             evt.currentTarget.className += " active";
131         }
132     </script>
```

Exercise02: Design following responsive UI as following

Our Menu

All   Breafast   Lunch   Shackes   Dinner

Ice Cream blue berry   **$ 15.99**

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.

Ice Cream blue berry   **$ 10.99**

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.

Ice Cream blue berry   **$ 19.99**

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.

Our Menu

All   Breafast   Lunch   Shackes   Dinner

Ice Cream blue berry   **$ 15.99**

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.

Ice Cream blue berry   **$ 10.99**

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.

```css
     .container{
         width: 700px;
         height: 800px;
         display: flex;
         justify-content: center;
         align-items: center;
     }
     .content{
         width: 95%;
         height: 95%;
         background-color: white;
         box-shadow: 0 0 0 5px black;
     }
     .content h2{
         color: midnightblue;
     }
     .content hr{
         width: 50px;
         padding: 2px;
         border-radius: 10px;
         background-color: orange;
     }
     .menu{
         display: flex;
         justify-content: center;
         align-items: center;
     }
     .menu button{
         margin-left: 20px;
         padding: 6px;
         border-color: rgba(231, 156, 17, 0.899);
         border-radius: 5px;
         cursor: pointer;
     }
     .menu button a{
         text-decoration: none;
         color: rgba(235, 159, 19, 0.899);
     }
     .main{
         width: 95%;
         height: 80%;
         margin: 16px;
         font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
         display: flex;
         justify-content: space-between;
         flex-direction: column;
     }
     .box{
         width: 100%;
         height: 32%;
         display: flex;
         justify-content: space-between;
     }
     .image{
         width: 38%;
         height: 100%;
     }
     .text{
         width: 60%;
         height: 100%;
     }
     .image img{
         width: 95%;
         height: 95%;
         border-radius: 7px;
     }
     .text legend{
         color: midnightblue;
     }
     .text legend span{
         float: right;
         color: orange;
     }
     .text hr{
         width: 100%;
         padding: 0px;
         background-color: gray;
     }
     .text p{
         font-family: "Source Sans Pro", "Arial", sans-serif;
         color: gray;
     }
     @media (max-width: 768px) {
     .container {
         width: 631px;
         height: auto;
     }
     .image {
         width: 55%;
         margin: auto;
     }
     .image img {
         width: 100%;
         height: 80%;
         border-radius: 5px;
         box-shadow: 0 0 0 2px darkorange;
     }
     .box {
         flex-direction: column;
         background-color: white;
         height: calc(66vh - 243px);
     }
     .text {
         padding: 0px;
         margin: auto;
         width: 80%;
     }
     }
```

```html
<div class="container">
    <div class="content">
        <h2 align="center">Our Menu</h2>
        <hr>
        <div class="menu">
            <button><a href="">All</a></button>
            <button><a href="">Breafast</a></button>
            <button><a href="">Lunch</a></button>
            <button><a href="">Shackes</a></button>
            <button><a href="">Dinner</a></button>
        </div>
        <div class="main">
            <div class="box">
                <div class="image"><img src="../TP04/Image/pic1.jpg" alt=""></div>
                <div class="text">
                    <legend>Ice Cream blue berry<span>$ 15.99</span></legend>
                    <hr>
                    <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.</p>
                </div>
            </div>
            <div class="box">
                <div class="image"><img src="../TP04/Image/pic2png.png" alt=""></div>
                <div class="text">
                    <legend>Ice Cream blue berry<span>$ 10.99</span></legend>
                    <hr>
                    <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.</p>
                </div>
            </div>
            <div class="box">
                <div class="image"><img src="../TP04/Image/pic3.webp" alt=""></div>
                <div class="text">
                    <legend>Ice Cream blue berry<span>$ 19.99</span></legend>
                    <hr>
                    <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt recusandae aliquid sed voluptatibus expedita dolor mollitia dignissimos cum quia alias.</p>
                </div>
            </div>
        </div>
    </div>
</div>
```
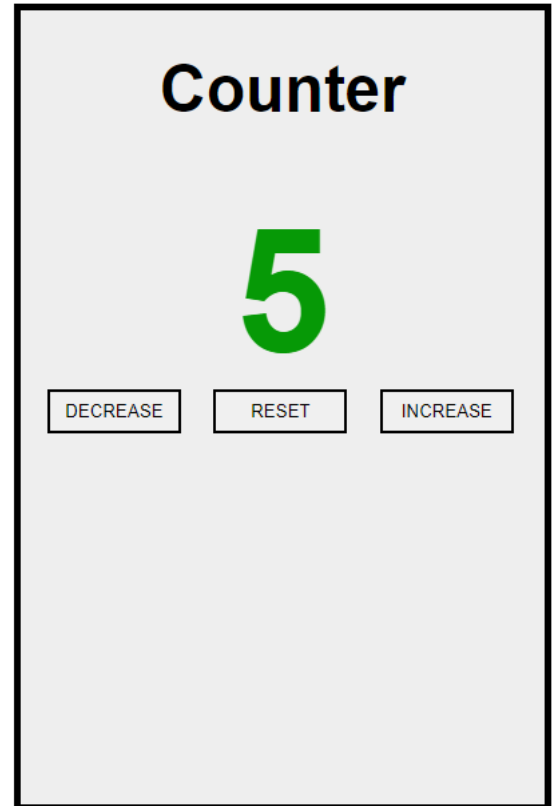
Exercise3: Build a number counter app with Class/Object concept and local storage

```
76    <script>
77        class NumberCounter {
78            constructor() {
79                this.count = 0;
80            }
81
82            increment() {
83                this.count++;
84                this.updateCounter();
85            }
86
87            decrement() {
88                this.count--;
89                this.updateCounter();
90            }
91
92            reset() {
93                this.count = 0;
94                this.updateCounter();
95            }
96
97            updateCounter() {
98                localStorage.setItem("count", this.count);
99                document.querySelector("#count").innerHTML = this.count;
100           }
101       }
102
103       const counter = new NumberCounter();
104       document.querySelector("#increase").addEventListener("click", () => {
105       counter.increment();
106       });
107
108       document.querySelector("#decrease").addEventListener("click", () => {
109       counter.decrement();
110       });
111
112       document.querySelector("#reset").addEventListener("click", () => {
113       counter.reset();
114       });
115
116       window.addEventListener("load", () => {
117           const storedCount = localStorage.getItem("count");
118           if (storedCount) {
119               counter.count = parseInt(storedCount);
120               counter.updateCounter();
121           }
122       });
123   </script>
```

Counter

5

| DECREASE | RESET | INCREASE |

Exercise4: Build a color generator app with Class/Object concept with local storage

```javascript
136    <script>
137        class Color {
138            colorType = '';
139
140            constructor(type) {
141                this.colorType = type;
142            }
143
144            generate() {
145                let index;
146                var obj = [{}];
147                var data = JSON.parse(localStorage.getItem('color'));
148                if (!data) {
149                    index = 0;
150                } else {
151                    obj = Object.assign([{}], data);
152                    index = data.length;
153                }
154                console.log(index);
155                // colorData = getRandom();
156
157                for (let i = 0; i < 6; i++) {
158                    const random = Math.random(); //random 0-1
159                    const bit = (random * 16) | 0;
160                    this.colorType += (bit).toString(16);
161                };
162
163                obj[index] = Object.assign({}, {
164                    'color': `${this.colorType}`
165                });
166                console.log(obj);
167                this.colorType = '#';
168
169                localStorage.setItem('color', JSON.stringify(obj));
170                document.getElementsByClassName('items')[0].innerHTML += `<div class="items-color"><span>${obj[index].color}</span><div class="box"><div></div>`;
171                document.getElementsByClassName('box')[index].style.backgroundColor = `${obj[index].color}`;
172                document.getElementsByClassName('result')[0].innerHTML = `${obj[index].color}`;
173                document.getElementsByClassName('color')[0].style.backgroundColor = `${obj[index].color}`;
174                document.getElementsByClassName('bottom')[0].style.backgroundColor = `${obj[index].color}`;
175                document.getElementsByClassName('button')[0].style.backgroundColor = `${obj[index].color}`;
176
177                return this.obj;
178            }
179            getRecords() {
180                this.records = JSON.parse(localStorage.getItem('color'));
181
182                return this.records;
183            }
184
185            reset() {
186                localStorage.removeItem('color');
187            }
188
189        }
190        let HEX = '#';
191        var co = new Color(HEX);
192        var records = co.getRecords();
193        console.log(records)
194        if (!records) {
195            console.log(co.getRecords());
196        } else {
197            for (record in records) {
198                document.getElementsByClassName('items')[0].innerHTML += `<div class="items-color"><span>${records[record].color}</span><div class="box"><div></div>`;
199                document.getElementsByClassName('box')[record].style.backgroundColor = `${records[record].color}`;
200            }
201        }
202
203        window.addEventListener('click', function(event) {
204            if (event.target.id == 'generate-Btn') {
205                co.generate();
206            } else if (event.target.id == 'reset-Btn') {
207                co.reset();
208                document.getElementsByClassName('items')[0].innerHTML = '';
209                document.getElementsByClassName('result')[0].innerHTML = '';
210                document.getElementsByClassName('color')[0].style.backgroundColor = '';
211                document.getElementsByClassName('bottom')[0].style.backgroundColor = '';
212                document.getElementsByClassName('button')[0].style.backgroundColor = '';
213            }
214        });
215    </script>
```

```css
65
66        .items {
67            display: flex;
68            flex-wrap: wrap;
69            height: auto;
70            justify-content: end;
71            background-color: #f9f9f9;
72            color: rgb(59, 57, 57);
73        }
74        .items .items-color {
75            width: 100%;
76            display: flex;
77            margin: 0 0 0 20px;
78        }
79        #generate-Btn,#reset-Btn {
80            cursor: pointer;
81            color: black;
82            border-style: outset;
83            border-color: #0066A2;
84            width: 13rem;
85            font: sans-serif;
86            font-weight: bold;
87            text-shadow: none;
88            height: 3rem;
89            margin-top: 0.745rem;
90            border-radius: 0.185rem;
91            margin: 0.65rem 20px 0.675rem 22px;
92            appearance: none;
93            background: none;
94        }
95        #reset-Btn {
96            appearance: none;
97            background: none;
98            color: black;
99            font: large bold;
100       }
101       #reset-Btn:hover{
102           background-color: black;
103           color: white;
104       }
105       #generate-Btn:hover{
106           background-color: black;
107           color: white;
108       }
109       .items-color .box {
110           height: 10px;
111           width: 20px;
112           margin: 5px;
113           border: 1px solid black;
114       }
115       .bottom {
116           height: 15vh;
117       }
118  </style>
```
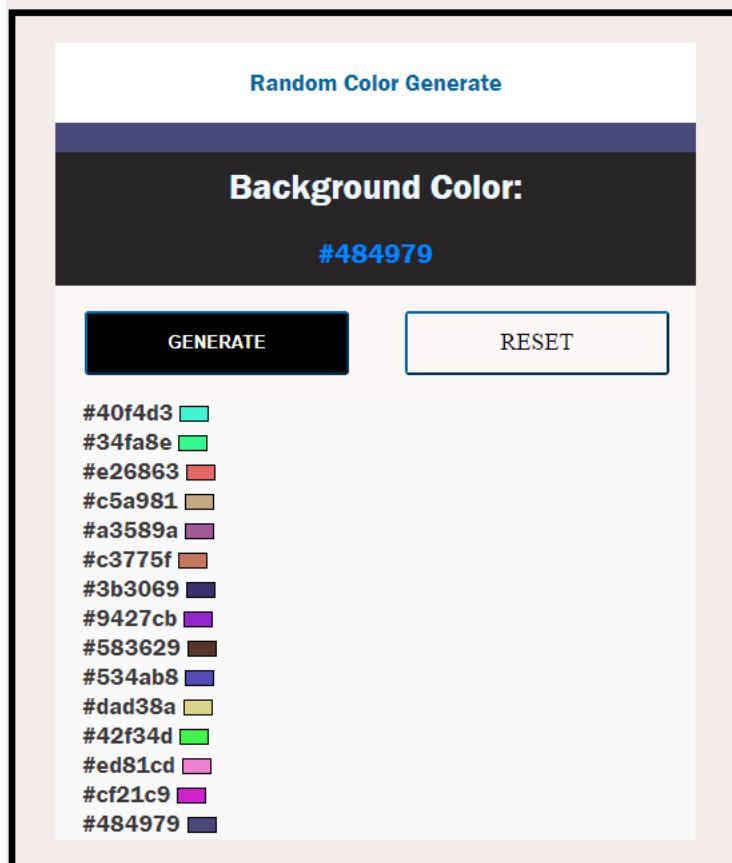
```css
15       }
16       .container {
17           width: 500px;
18           height: auto;
19           margin: 0 auto;
20           padding-bottom: 20px;
21           margin-top: 20px;
22           display: flex;
23           justify-content: center;
24           text-align: center;
25           box-shadow: 0 0 0 5px black;
26           padding: 20px;
27       }
28       legend{
29           padding: 20px;
30           background-color: #fff;
31           color: #0066A2;
32           display: flex;
33           justify-content: center;
34           align-items: center;
35       }
36       .color {
37           text-align: center;
38           width: 30rem;
39           font-size: large;
40           font-weight: 700;
41
42       }
43       .color .head {
44
45           background-color: rgb(39, 37, 37);
46           height: 100px;
47       }
48       .head>h2 {
49           color: aliceblue;
50           padding-top: 10px;
51       }
52       .head .result {
53           color: rgb(0, 136, 255);
54       }
55       .color .button {
56           display: flex;
57           align-items: center;
58           justify-content: center;
59           height: 85px;
60           box-shadow: rgba(4, 28, 56, 0.3) 0px 0px 0px 0px;
61           background-color: #fcf7f7;
62       }
63       .button>button {
64           margin: 20px;
65       }
66
```
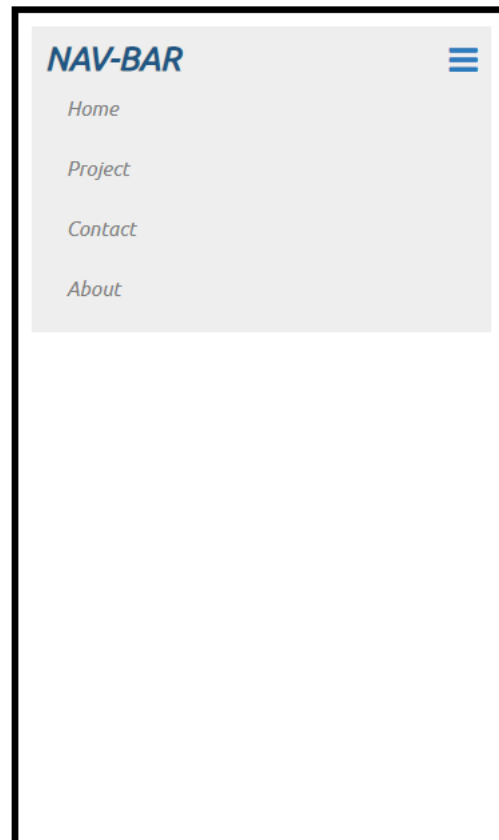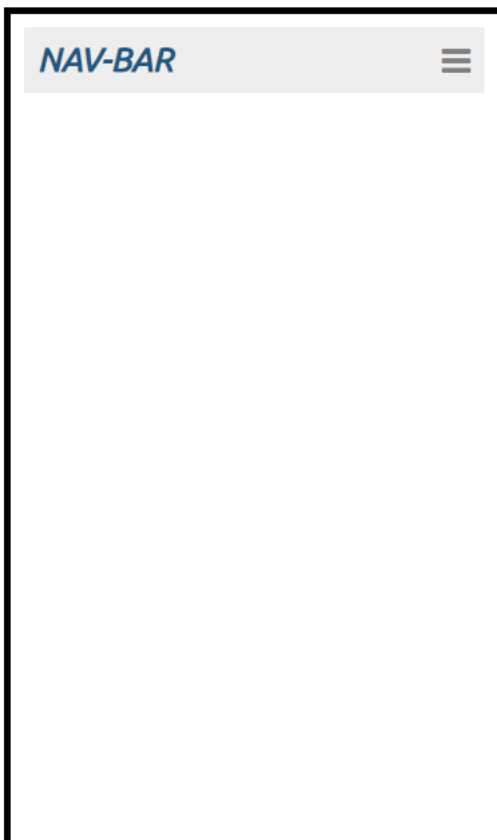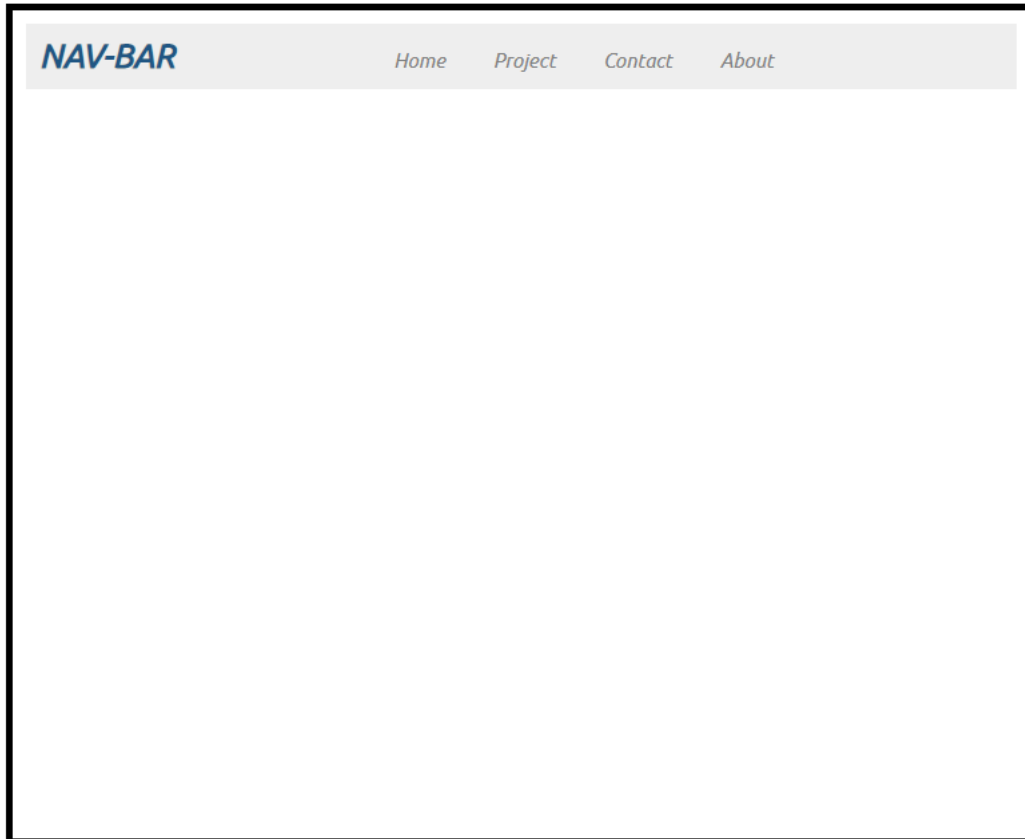
Exercise5: Build a navigation bar to support both wide and mobile screen

NAV-BAR   Home   Project   Contact   About

NAV-BAR   ☰

NAV-BAR   ☰

Home

Project

Contact

About

```
   8    </head>
   9    <style>
  10        @import url('https://fonts.googleapis.com/css2?family=Ubuntu:ital@1&display=swap');
  11
  12    body {
  13        margin: 0;
  14        font-family: 'Ubuntu', sans-serif;
  15    }
  16    .container{
  17        width: 60%;
  18        height: 600px;
  19        box-shadow: 0 0 0 5px black;
  20        margin: 20px;
  21        padding: 10px;
  22    }
  23    .topnav {
  24        overflow: hidden;
  25        background-color: #eee;
  26        padding: 10px;
  27        position: relative;
  28    }
  29    .topnav span{
  30        font-size: 25px;
  31        margin-right: 20%;
  32    }
  33    .topnav a {
  34        color: gray;
  35        padding: 14px 16px;
  36        text-decoration: none;
  37        font-size: 15px;
  38    }
  39    .topnav a:hover {
  40        background-color: #ddd;
  41        color: black;
  42    }
  43    .topnav span.active {
  44        font-weight: bold;
  45        color: rgb(32, 86, 131);
  46    }
  47    .topnav .icon {
  48        display: none;
  49        background: none;
  50        appearance: none;
  51    }
  52    .topnav .icon i{
  53        font-size: 25px;
  54        position: absolute;
  55        top: 13px;
  56        right: 10px;
  57
  58    }
  59    .topnav .icon:hover i {
  60        color: rgb(42, 123, 190);
  61        background: none;
  62        background: none;
  63        appearance: none;
  64    }
  65    @media screen and (max-width: 600px) {
  66        .topnav a:not(:first-child) {display: none;}
  67        .topnav a.icon {
  68            float: right;
  69            display: block;
  70            background: none;
  71            appearance: none;
  72        }
  73    }
  74    @media screen and (max-width: 600px) {
  75        .topnav.responsive {position: relative;}
  76        .topnav.responsive .icon {
  77            position: absolute;
  78            background: none;
  79            appearance: none;
  80            right: 0;
  81            top: 0;
  82        }
  83        .topnav.responsive a {
  84            float: none;
  85            display: block;
  86            text-align: left;
  87        }
  88    }
  89    </style>
  90    <body>
  91        <div class="container">
  92            <div class="topnav" id="myTopnav">
  93                <span class="active">NAV-BAR</span>
  94                <a href="#home">Home</a>
  95                <a href="#project">Project</a>
  96                <a href="#contact">Contact</a>
  97                <a href="#about">About</a>
  98                <a href="javascript:void(0);" class="icon" onclick="myFunction()">
  99                    <i class="fa fa-bars"></i>
 100                </a>
 101            </div>
 102        </div>
 103
 104    <script>
 105        function myFunction() {
 106            var x = document.getElementById("myTopnav");
 107            if (x.className === "topnav"){
 108                x.className += " responsive";
 109            } else {
 110                x.className = "topnav";
 111            }
 112        }
```
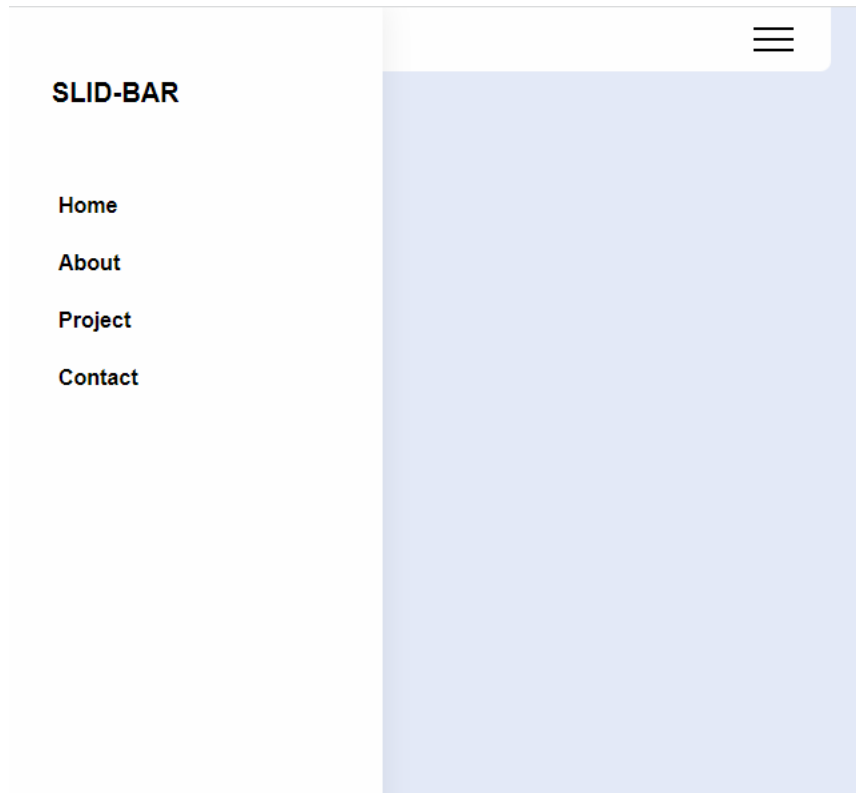
Exercise6: Build an app with a slide bar


```
117   <body>
118       <div class="container">
119           <header>
120               <div class="logo">
121                   <p>SLID-BAR</p>
122               </div>
123               <input type="checkbox" name="" id="nav-checkbox" hidden>
124               <nav>
125                   <div class="logo">
126                       <p>SLID-BAR</p>
127                   </div>
128                   <ul>
129                       <li><a href="#" class="active">Home</a></li>
130                       <li><a href="#">About</a></li>
131                       <li><a href="#">Project</a></li>
132                       <li><a href="#">Contact</a></li>
133                   </ul>
134               </nav>
135               <label for="nav-checkbox" class="respon">
136                   <div></div>
137                   <div></div>
138                   <div></div>
139               </label>
140           </header>
141       </div>
142   </body>
143   </html>
```

```css
<style>
    *{
        padding: 0;
        margin: 0;
        box-sizing:border-box;
        list-style: none;
        text-decoration: none;
        font-family: 'Ubuntu', sans-serif;
    }
    body{
        background-color: #e3e9f7;
    }
    header{
        width: 80%;
        height: 3rem;
        background-color: #fefefe;
        display: flex;
        align-items: center;
        justify-content: space-between;
        padding: 0 2rem;
        border-radius: 0 0 0.5rem 0.5rem;
        margin: 0 auto;
    }
    .logo{
        width: 7rem;
        margin-top: 0.5rem;
    }
    .logo p{
        font-weight: bold;
        font-size: 20px;
    }
    nav .logo{
        display: none;
    }
    nav ul{
        display: flex;
    }
    nav ul li a{
        color: black;
        display: block;
        margin: 0 2px;
        font-weight: 600;
        padding: 0.5rem 1rem;
        transition: 0.2s;
        border-radius: 2rem;
    }
    nav ul li a:hover{
        background-color: #f4f6ff;
    }

    .respon{
        display: none;
        height: fit-content;
        cursor: pointer;
        padding: 3px 8px;
        border-radius: 5px;
        transition: 0.2s;
    }
    .respon:hover{
        background-color: #f6f4ff;
    }
    .respon div{
        width: 30px;
        height: 2px;
        margin: 6px 0;
        background-color: black;
    }
    @media (max-width: 730px){
    header{
        width: 90%;
        padding: 0 20px;
    }

    }
    nav{
        position:absolute;
        left: -300px;
        top: 0;
        z-index: 9999;
        width: 280px;
        height: 100vh;
        background-color: #fefefe;
        transition: 0.2s;
        box-shadow: 2px 0 20px 0 rgba(0, 0, 0, 0.063);
    }
    #nav-checkbox:checked ~ nav{
        left: 0px;
    }
    nav .logo{
        display: block;
        height: 7rem;
        display: flex;
        align-items: center;
        margin-left: 2rem;
    }
    nav ul li a{
        margin-bottom: 5px;
        padding: 10px 15px;
        border-radius: 5px;
    }
    nav ul{
        display: block;
        padding: 0 20px;
        margin-top: 10px;
    }
```