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TP04 JavaScript

GitHub Repository URL: https://github.com/Dapravith/TP_Internet_Programming/tree/TP04

Ex1: Tab

- Index.html

```
Exercise1 > 5 index.html > 4 html > 4 body > 4 section.section > 4 div.title > 4 p
      <!DOCTYPE html>
  2 <html lang="en">
          <meta charset="UTF-8" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
          <title>Exercise 1 Design UI with 3 Tabs</title>
          <link rel="stylesheet" href="./style.css" />
         <section class="section">
              <div class="title">
                <h2>About</h2>
                  Lorem ipsum dolor sit amet consectetur adipisicing elit. Earum,
 17
                  aperiam!
              <div class="about-center section-center">
                  <article class="about-img">
                    <img src="./images/mountain.jpeg" alt="" />
                  </article>
                  <article class="about">
                    <div class="btn-container">
                      <button class="tab-btn active" data-id="history">history/button>
                      <button class="tab-btn" data-id="vision">vision
                      <button class="tab-btn" data-id="goals">goals
                    <div class="about-content">
                      <div class="content active" id="history">
                        <h4>history</h4>
```

```
Exercise1 > 5 index.html > 6 html > 6 body > 6 section.section > 6 div.title > 6 p
                         <h4>history</h4>
                           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.
                       <div class="content" id="vision">
                         <h4>vision</h4>
                          Man bun PBR&B keytar copper mug prism, hell of helvetica. Synth
                           crucifix offal deep v hella biodiesel. Church-key listicle
                           polaroid put a bird on it chillwave palo santo enamel pin,
                           tattooed meggings franzen la croix cray. Retro yr aesthetic four
                           loko tbh helvetica air plant, neutra palo santo tofu mumblecore.
                          Hoodie bushwick pour-over jean shorts chartreuse shabby chic.
                           Roof party hammock master cleanse pop-up truffaut, bicycle
                           rights skateboard affogato readymade sustainable deep v
                           live-edge schlitz narwhal.
                           listitem<br>
                           listitem<br>
                           listitem<br>
                       <div class="content" id="goals">
                         <h4>goals</h4>
                          <h4>goals</h4>
                            Chambray authentic truffaut, kickstarter brunch taxidermy vape
                            heirloom four dollar toast raclette shoreditch church-key.
                            Poutine etsy tote bag, cred fingerstache leggings cornhole
                            everyday carry blog gastropub. Brunch biodiesel sartorial mlkshk
                            swag, mixtape hashtag marfa readymade direct trade man braid
                            cold-pressed roof party. Small batch adaptogen coloring book
                            heirloom. Letterpress food truck hammock literally hell of wolf
                            beard adaptogen everyday carry. Dreamcatcher pitchfork yuccie,
                            banh mi salvia venmo photo booth quinoa chicharrones.
  84
                    </article>
            <script src="tab.js"></script>
```

```
Exercise1 > 3 style.css > 4:root
      @import url("https://fonts.googleapis.com/css?family=Open+Sans|Roboto:400,700&display=swap");
      /* variable */
      :root {
       /* darkest grey - used for headings */
       --clr-grey-1: □ hsl(209, 61%, 16%);
       --clr-grey-2: □hsl(211, 39%, 23%);
       --clr-grey-3: □hsl(209, 34%, 30%);
       --clr-grey-4: □hsl(209, 28%, 39%);
       /* grey used for paragraphs */
       --clr-grey-5: □hsl(210, 22%, 49%);
       --clr-grey-6: □hsl(209, 23%, 60%);
       --clr-grey-7: □hsl(211, 27%, 70%);
       --clr-grey-8: □hsl(210, 31%, 80%);
 14
       --clr-grey-9: □hsl(212, 33%, 89%);
       --clr-grey-10: hsl(210, 36%, 96%);
       --clr-white: ☐#fff;
       --clr-black: □ rgb(17, 15, 15);
       --ff-primary: "Roboto", sans-serif;
       --ff-secondary: "Open Sans", sans-serif;
       --transition: all 0.5s linear;
       --spacing: 0.25rem;
       --radius: 0.5rem;
       --max-width: 1160px;
       --fixed-width: 950px;
    *,::after,::before {
      margin: 0;
       padding: 0;
       box-sizing: border-box;
     body {
       font-family: var(--ff-secondary);
       font-size: large;
      background: var(--clr-grey-10);
                background: var(--clr-grey-10);
color: var(--clr-grey-1);
line-height: 1.5;
font-size: 0.875rem;
             img:not(.logo) {
                width:
                            100%;
                margin: 15px 2px 0 5px 2rem;
             img {
display: grid;
                 justify-content: center;
              letter-spacing: var(--spacing);
text-transform: capitalize;
line-height: 1.25;
                margin-bottom: 0.85rem;
                font-family: var(--ff-primary);
                 font-size: 3rem 2rem 1.25rem 0.875rem;
             P {
                margin-bottom: 1.25rem;
color: var(--clr-grey-5);
```

```
68 v .btn {
       text-transform: uppercase;
       background: transparent;
       color: var(--clr-black);
 71
       padding: 0.475rem 0.95rem;
       letter-spacing: var(--spacing);
       display: inline-block;
       transition: var(--transition);
 76
       font-size: 0.875rem;
       border: 2px solid var(--clr-black);
 78
       cursor: pointer;
       box-shadow: 0 2px 4px □rgba(23, 23, 23, 0.2);
        border-radius: var(--radius);
 82 v.btn:hover {
       color: var(--clr-white);
       background: var(--clr-black);
 87 \vee .section {
       padding: 4rem 0;
 91 ∨ .section-center {
       width: 100vw;
       height: auto;
      margin: 0 auto;
 95
       max-width: 1170px;
98 ~ main {
       min-height: 100vh;
        display: 🖼 flex;
         place-items: center;
102
104
      .title {
    text-align: center;
         margin-bottom: 4rem;
    v .title p {
   width: 100%;
   margin.
         margin: 0 auto;

√ .about-img {
         margin-bottom: 4rem;
    ~ .about-img img {
       border-radius: var(--radius);
         object-fit: cover;
         height: 20rem;
      ``}

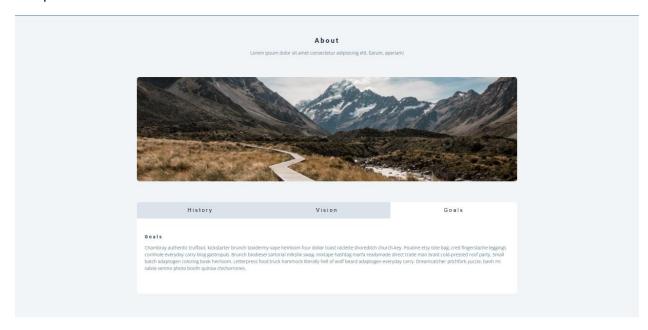
√ .about {
       background: var(--clr-white);
border-radius: var(--radius);
123
        display: grid;
126
         grid-template-rows: auto 1fr;
       .btn-container {
        border-top-left-radius: var(--radius);
         border-top-right-radius: var(--radius);
         display: grid;
132
         grid-template-columns: 1fr 1fr;
```

```
134
       .tab-btn:nth-child(1) {
135
        border-top-left-radius: var(--radius);
136
137
      .tab-btn:nth-child(3) {
138
        border-top-right-radius: var(--radius);
139
140
      .tab-btn {
141
      padding: 1rem 0;
border: none;
142
        text-transform: capitalize;
143
144
       font-size: 1rem;
145
       display: block;
146
       background: var(--clr-grey-9);
147
        cursor: pointer;
148
        transition: var(--transition);
        letter-spacing: var(--spacing);
150
     .tab-btn:hover:not(.active) {
152
       background: var(--clr-primary-10);
153
        color: var(--clr-primary-5);
154
      .about-content {
156
       border-bottom-left-radius: var(--radius);
157
       border-bottom-right-radius: var(--radius);
158
        padding: 3rem 1.5rem;
159
161
      .content {
        display: none;
164
      .tab-btn.active {
        background: var(--clr-white);
165
      .content.active {
       display: block;
      }
```

- tab.js

```
Exercise1 > Js tab.js
      const btns = document.querySelectorAll(".tab-btn");
      const about = document.querySelector(".about");
      const articles = document.querySelectorAll(".content");
      about.addEventListener("click", function (e) {
        const id = e.target.dataset.id;
        if (id) {
           btns.forEach(function (btn) {
            btn.classList.remove("active");
            e.target.classList.add("active");
 11
           });
           articles.forEach(function (article) {
 12
            article.classList.remove("active");
          });
 14
       const element = document.getElementById(id);
        element.classList.add("active");
       });
```

- output for Ex1:



Ex2: Responsive Menu

- index.html

```
Exercise2 \gt \lnot index.html \gt \diamondsuit html \gt \diamondsuit body \gt \diamondsuit section.menu \gt \diamondsuit div.btn-container
      <!DOCTYPE html>
       <html lang="en">
          <meta charset="UTF-8" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
           <title>Exercise 2 Responsive Menu</title>
           href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.14.0/css/all.min.css"
           <link rel="stylesheet" href="styles.css" />
             <div class="title">
             <h2>our menu</h2>
               <div class="underline"></div>
              <button type="button" class="filter-btn" data-id="all">all
               <button type="button" class="filter-btn" data-id="breakfast">
                breakfast
               <button type="button" class="filter-btn" data-id="lunch">lunch</button>
               <button type="button" class="filter-btn" data-id="shakes">
                shakes
```

```
Exercise2 > 🥫 index.html > 🔗 html > 🔗 body > 😭 section.menu > 😭 div.btn-container
 32
            <div class="section-center">
              <article class="menu-item">
                <img src="./menu-item.jpeg" alt="menu item" class="photo" />
                <div class="item-info">
                  <header>
                    <h4>buttermilk pancakes</h4>
                    <h4 class="price">$15</h4>
                  43
                    Lorem ipsum dolor sit amet consectetur adipisicing elit.
 44
                    Repudiandae, sint quam. Et reprehenderit fugiat nesciunt inventore
 45
                    laboriosam excepturi! Quo, officia.
              <article class="menu-item">
                <img src="./images/menu-item.jpeg" alt="menu item" class="photo" />
                <div class="item-info">
                  <header>
                    <h4>buttermilk pancakes</h4>
                    <h4 class="price">$15</h4>
                  Lorem ipsum dolor sit amet consectetur adipisicing elit.
                    Repudiandae, sint quam. Et reprehenderit fugiat nesciunt inventore
                    laboriosam excepturi! Quo, officia.
              </article>
```

-styles.css

```
Exercise2 > 3 styles.css > ...
         @import url("https://fonts.googleapis.com/css?family=Open+Sans|Roboto:400,700&display=swap");
          /* darkest grey - used for headings */
--clr-grey-1: □hsl(209, 47%, 15%);
           --clr-grey-2: □hsl(211, 39%, 23%);
           --clr-grey-3: □hsl(209, 34%, 30%);
--clr-grey-4: □hsl(209, 28%, 39%);
/* grey used for paragraphs */
            --clr-grey-5: □hsl(210, 22%, 49%);
            --clr-grey-6: □hsl(209, 23%, 60%);
            --clr-grey-7: □hsl(211, 27%, 70%);
           --clr-grey-8: hsl(210, 31%, 80%);
--clr-grey-9: hsl(212, 33%, 89%);
           --clr-grey-10: □|s1(212, 33%, 89%),

--clr-grey-10: □|s1(210, 36%, 96%);

--clr-white: □|#fff;

--clr-gray: □|rgb(224, 205, 205);

--clr-gold: □|#c59d5f;
            --clr-black: □#222;
            --ff-primary: "Roboto", sans-serif;
            --ff-secondary: "Open Sans", sans-serif;
           --spacing: 0.25rem;
            --radius: 0.5rem;
            --light-shadow: 0 5px 17px □rgba(0, 0, 0, 0.1);
            --dark-shadow: 0 5px 17px □rgba(0, 0, 0, 0.2);
            --max-width: 1170px;
            --fixed-width: 620px;
```

```
/* Global Styles */
34
      *,::after,::before {
        margin: 0;
37
        padding: 0;
        box-sizing: border-box;
      }
41
42
      body {
43
        font-family: var(--ff-secondary);
        background: var(--clr-grey-25);
44
        color: var(--clr-grey-5);
        line-height: 1.7;
        font-size: 0.875rem;
47
      }
      ul,a {
51
        list-style-type: none;
        text-decoration: none;
52
      img:not(.logo) {
        width: 100%;
      img {
        display: block;
61
   h1,h2,h3,h4 {
     letter-spacing: var(--spacing);
     text-transform: capitalize;
     line-height: 1.25;
     margin-bottom: 0.75rem;
     font-family: var(--ff-primary);
     font-size: 3rem, 2rem, 1.25rem 0.875rem;
     margin-bottom: 1.25rem;
     color: var(--clr-grey-5);
   @media screen and (min-width: 800px) {
     h1,h2,h3,h4 {
       font-size: 4rem, 2.5rem, 1.75rem, 1rem;
     body {
       font-size: 1rem;
     h1,h2,h3,h4 {
       line-height: 1;
```

```
global classes */
 87
       .btn {
        text-transform: uppercase;
 90
 91
        background: transparent;
        color: var(--clr-black);
 92
        padding: 0.375rem 0.75rem;
        letter-spacing: var(--spacing);
        display: inline-block;
        transition: var(--transition);
        font-size: 0.875rem;
        border: 2px solid var(--clr-black);
        cursor: pointer;
        box-shadow: 0 1px 3px □ rgba(7, 7, 7, 0.2);
100
101
        border-radius: var(--radius);
102
       .btn:hover {
        color: var(--clr-white);
104
        background: var(--clr-black);
      }
      /* section */
      .section {
        padding: 5rem 0;
110
111
       main {
112
         min-height: 100vh;
113
         display: grid;
114
         place-items: center;
115
116
       }
117
       /* Menu */
118
119
120
       .menu {
121
         padding: 5rem 0;
122
       .title {
123
         text-align: center;
124
125
         margin-bottom: 2rem;
126
       .underline {
127
         width: 5rem;
128
         height: 0.25rem;
129
130
         background: var(--clr-gold);
131
         margin-left: auto;
         margin-right: auto;
132
133
       }
       .btn-container {
134
         margin-bottom: 4rem;
135
136
         display: Im flex;
         justify-content: center;
137
```

```
139
        .filter-btn {
140
          background: transparent;
          border-color: var(--clr-gold);
141
142
          font-size: 1rem;
          text-transform: capitalize;
143
          margin: 0 0.5rem;
144
145
          letter-spacing: 1px;
          border-radius: var(--radius);
146
147
          padding: 0.375rem 0.75rem;
          color: var(--clr-gold);
148
          cursor: pointer;
149
150
          transition: var(--transition);
151
        .filter-btn:hover {
152
          background: var(--clr-gold);
153
          color: var(--clr-white);
154
155
        .section-center {
156
157
          width: 90vw;
          margin: 0 auto;
158
159
          max-width: 1170px;
160
          display: grid;
          gap: 3rem 2rem;
161
          justify-items: center;
162
163
        .menu-item {
164
          display: grid;
165
166
          gap: 1rem 2rem;
167
          max-width: 25rem;
        }
168
     .photo {
      object-fit: cover;
170
      height: 200px;
171
      border: 0.25rem solid var(--clr-gold);
172
      border-radius: var(--radius);
174
     .item-info header {
176
      display: #flex;
      justify-content: space-between;
177
178
      border-bottom: 0.5px dotted var(--clr-grey-5);
179
     .item-info h4 {
       margin-bottom: 0.5rem;
     .price {
       color: var(--clr-gold);
184
     .item-text {
      margin-bottom: 0;
       padding-top: 1rem;
```

```
190

∨ @media screen and (min-width: 768px) {
192
         .menu-item {
           grid-template-columns: 225px 1fr;
194
           gap: 0 1.25rem;
           max-width: 40rem;
195
196
197
         .photo {
           height: 185px;
198
199
200

√ @media screen and (min-width: 1200px) {
201
         .section-center {
202
           width: 97vw;
203
204
           grid-template-columns: 1fr 1fr;
205
206
         .photo {
           height: 180px;
207
208
210
```

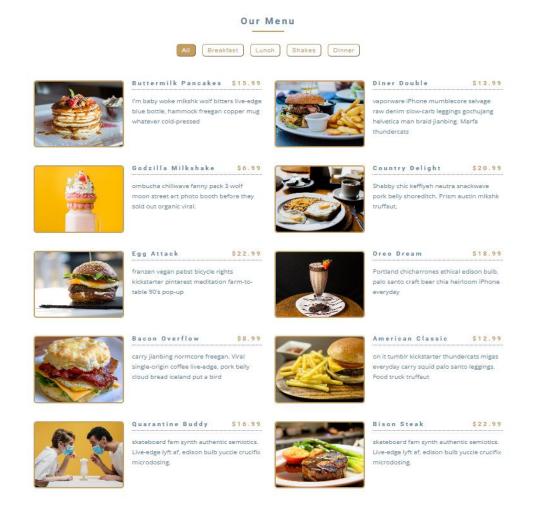
- menu.js

```
Exercise2 > Js menu.js > ...
          id: 1,
          category: "breakfast",
          price: 15.99,
          img: "./images/item-1.jpeg",
          desc: `I'm baby woke mlkshk wolf bitters live-edge blue bottle, hammock freegan copper mug whatever cold-pressed `,
          title: "diner double",
          category: "lunch",
          price: 13.99,
          img: "./images/item-2.jpeg",
          desc: `vaporware iPhone mumblecore selvage raw denim slow-carb leggings gochujang helvetica man braid jianbing. Marfa thundercats `,
          category: "shakes",
          price: 6.99,
          img: "./images/item-3.jpeg",
          id: 4,
          category: "breakfast",
          img: "./images/item-4.jpeg",
```

```
id: 5,
title: "egg attack",
            category: "lunch",
            price: 22.99,
img: "./images/item-5.jpeg",
1 40
           id: 6,
title: "oreo dream",
           category: "shakes",
          price: 18.99,
img: "./images/item-6.jpeg",
           id: 7,
title: "bacon overflow",
           category: "breakfast",
           img: "./images/item-7.jpeg",
            desc: `carry jianbing normcore freegam. Viral single-origin coffee live-edge, pork belly cloud bread iceland put a bird `
           id: 8,
title: "american classic",
           category: "lunch",
          price: 12.99,
           img: "./images/item-8.jpeg",
            desc: `on it tumblr kickstarter thundercass migas everyday carry squid palo santo leggings. Food truck truffaut `,
             id: 9,
             title: "quarantine buddy",
             category: "shakes",
             price: 16.99,
             img: "./images/item-9.jpeg",
3 72
             desc: `skateboard fam synth authentic semiotics. Live-edge lyft af, edison bulb yuccie crucifix microdosing.`
             id: 10,
             title: "bison steak",
             category: "dinner",
             price: 22.99,
 80
             img: "./images/item-10.jpeg",
             desc: `skateboard fam synth authentic semiotics. Live-edge lyft af, edison bulb yuccie crucifix microdosing.`
         const sectionCenter = document.querySelector(".section-center");
         const btnContainer = document.querySelector(".btn-container");
         window.addEventListener("DOMContentLoaded", function () {
           displayMenuItems(menu);
           displayMenuButtons();
```

```
function displayMenuItems(menuItems) {
        let displayMenu = menuItems.map(function (item) {
          console.log(item);
          return `<article class="menu-item">
                <img src=${item.img} alt=${item.title} class="photo" />
                <div class="item-info">
                  <header>
                    <h4>${item.title}</h4>
                    <h4 class="price">$${item.price}</h4>
                  </header>
104
                  ${item.desc}
                  </div>
              </article>`;
        });
        displayMenu = displayMenu.join("");
         console.log(displayMenu);
113
114
        sectionCenter.innerHTML = displayMenu;
116
      function displayMenuButtons() {
        const categories = menu.reduce(
          function (values, item) {
118
            if (!values.includes(item.category)) {
              values.push(item.category);
121
            return values;
123
          ["all"]
124
        );
         const categoryBtns = categories
           .map(function (category) {
            return `<button type="button" class="filter-btn" data-id=${category}>
                 ${category}
               </button>`;
           .join("");
         btnContainer.innerHTML = categoryBtns;
         const filterBtns = btnContainer.querySelectorAll(".filter-btn");
         console.log(filterBtns);
         filterBtns.forEach(function (btn) {
           btn.addEventListener("click", function (e) {
             console.log(e.currentTarget.dataset);
             const category = e.currentTarget.dataset.id;
             const menuCategory = menu.filter(function (menuItem) {
               console.log(menuItem.category);
               if (menuItem.category === category) {
                 return menuItem;
             if (category === "all") {
              displayMenuItems(menu);
               displayMenuItems(menuCategory);
           });
```

Output for Ex2:



Ex3: Counter

- Index.html

```
Exercise3 > 3 style.css > 4 .container
      *{
          margin: 0;
          padding: 0;
          box-sizing: border-box;
       .container{
          font-family: sans-serif;
          margin-top: 85px;
          width: 75vh;
 11
          height: auto;
 12
          border: 7px solid □rgb(11, 4, 104);
 13
          background-color: ☐rgb(251, 246, 246);
 15
 17
      p {
          font-size: 5rem;
 19
          color: □rgba(14, 14, 105, 0.912);
      }
 21
 22
      .btn-group button{
          padding: 0.575rem 0.85rem;
          letter-spacing: var(--spacing);
 24
          border: 5px solid ☐ lightblue;
          margin: 10px;
      }
      .btn:hover {
          color: var(--clr-gray);
          background: var(--clr-black);
 32
      .number{
          font-size: 10rem;
          font-weight: bold;
       }
```

- counter.js

```
Exercise3 > 🅦 counter.js > 🛇 $() callback
       class Counter{
            number=0:
            constructor(num){
              this.number = parseInt(num);
            decrease(){
               this.number=this.number-1;
              localStorage.setItem("counter", this.number);
               show_number();
            increase(){
              this.number=this.number+1;
              localStorage.setItem("counter",this.number);
              show_number();
            reset(){
               this.number=0;
              localStorage.setItem("counter",0);
              show_number();
          function show_number(){
            var num = localStorage.getItem("counter");
$(".number").html(num);
            if(num>0){
              $(".number").css("color", "green");
            }else if(num<0){
   $(".number").css("color","red");</pre>
             }else{
              $(".number").css("color","black");
        var default num = localStorage.getItem("counter");
         default num = parseInt(default num);
         let count = new Counter(default num);
  41
        $("#decrease").click(function(){
 42 🗸
           count.decrease();
 43
         })
 44
        $("#reset").click(function(){
 45 🗸
          count.reset();
 47
        $("#increase").click(function(){
          count.increase();
         })
        $(function () {
  52 🗸
          if(typeof(localStorage.getItem("counter")) == 'undefined'){
  54 🗸
              localStorage.setItem("counter",0);
  55
           };
  57
```

- Reset



- Increase





Ex4: Random Color Generator

- Index.html

```
Exercise4 > 🗦 generatecolor.css > ધ .color
                           body {
                                            padding: 30px;
                                            margin: 45px;
                                            background-color: ☐ rgb(244, 235, 235);
                            .container {
                                            width: 96vw;
                                            height: 37vh;
                                            padding-bottom: 20px;
                                            margin-top: 30px;
                                            display: 

flex;
     12
                                            justify-content: center;
                                            text-align: center;
     17
                            .color {
                                            text-align: center;
                                            width: 30rem;
     19
                                            font-size: large;
      21
                                            font-weight: 700;
     22
                            .color .head {
                                            background-color: \Boxrgb(39, 37, 37);
                                            height: 100px;
                           .head>h2 {
                                            color: aliceblue;
                                            padding-top: 10px;
                          .head .result {
color: □<mark>rgb(0, 136, 255)</mark>;
                      .color .button {
    display:  flex;
    align-items: center;
                                            justify-content: center;
                                        Justily contended to the property form of the prop
                                      margin: 20px;
                          .items {
    display:  flex;
                                        height: auto;
justify-content: end;
background-color: #f9f9f9;
                        .items .items-color {
width: 100%;
display:  flex;
                                          margin: 0 0 0 20px;
```

```
65 ∨ #generate-Btn, #reset-Btn {
         cursor: pointer;
         background-color: \Boxrgba(0, 0, 0, 0.978);
         color: White;
         border-style: outset;
         border-color: □#0066A2;
70
71
         width: 13rem;
72
         font: sans-serif;
         text-shadow: none;
         height: 3rem;
74
         margin-top: 0.745rem;
         border-radius: 0.185rem;
76
         margin: 0.65rem 20px 0.675rem 22px;
78
79
   w #reset-Btn {
         background-color: □rgba(239, 54, 54, .7);
         color: □black;
82
         font: large bold;
83
84
   .items-color .box {
         height: 20px;
87
         width: 20px;
         margin-top: 5px;
         border: 1px solid □black;
93 v .bottom {
         height: 15vh;
```

- color.is

```
localStorage.setItem('color', JSON.stringify(obj));
                             document.getElementsByClassName('items')[0].innerHTML += `<div class="items-color"><span>${obj[index].color}</span><div class="box"><div></div>`;
                             document.getElementsByClassName('box')[index].style.backgroundColor = `${obj[index].color}`;
                           document.getElementsByClassName('result')[0].innerHTML = `${obj[index].color}`;
                           \label{local-document-getElementsByClassName('color')[0].style.backgroundColor = `$\{obj[index].color\}`; \\ document.getElementsByClassName('bottom')[0].style.backgroundColor = `$[obj[index].color]. \\ document.getElementsByClassName('bottom')[0].style.backgroundColor = `$[obj[index].color]. \\ document.getElementsByClassName('bottom')[0].style.backgroundColor = `$[obj[index].color]. \\ document.getElementsByClassName('bottom')[0].style.backgroundColor = `$[obj[index].color]. \\ documentsByClassName('bottom')[0].style.backgroundColor = `$[obj
                           document.getElementsByClassName('button')[0].style.backgroundColor = `${obj[index].color}`;
               getRecords() {
                           this.records = JSON.parse(localStorage.getItem('color'));
                            localStorage.removeItem('color');
let HEX = '#';
var co = new Color(HEX);
var records = co.getRecords();
              console.log(co.getRecords());
                           document.getElementsByClassName('items')[0].innerHTML += `<div class="items-color"><span>{records[record].color}</span><div class="box"><div></div>`;
document.getElementsByClassName('box')[record].style.backgroundColor = `${records[record].color}`;
             if (event.target.id == 'generate-Btn') {
   co.generate();
                         co.reset();
                          co.reset();
document.getElementsByClassName('items')[0].innerHTML = '';
document.getElementsByClassName('result')[0].innerHTML = '';
document.getElementsByClassName('color')[0].style.backgroundColor = '';
document.getElementsByClassName('bottom')[0].style.backgroundColor = '';
document.getElementsByClassName('bottom')[0].style.backgroundColor = '';
```

Output for Ex4



- local storage for Ex4

```
Console
Memory Application Security
                                                                                                 » | 🛚 17 | 🔁 1 | 🔯
                                                                         0 ×
Application
                                                                        Value
              Key
  Manifest
                                                                        [{"color":"#b40763"},{"color":"#4dce6d"},{"color":"#73e3a5"},{"color...
  Service Wc color
              counter
  Storage
              num
Storage
▼ III Local Stora
    ■ http://12
▶ ■ Session Sto
  IndexedDB
               ▼[{color: "#b40763"}, {color: "#4dce6d"}, {color: "#73e3a5"}, {color: "#f31cc3"}, {color: "#6c2df3"},…]
  Web SQL
                ▶0: {color: "#b40763"}
▶1: {color: "#4dce6d"}
  ■ Trust Toker ▶ 2: {color: "#73e3a5"}
  ■ Interest Gr →3: {color: "#f31cc3"}
                ▶4: {color: "#6c2df3"}
                 ▶5: {color: "#6d1aac"}
                 ▶6: {color: "#42b35c"}
Cache
               ▶7: {color: "#58b02b"}
  Cache Stor
  ► 8: {color: "#421fe3"}

► 9: {color: "#7cbcea"}
                 ▶ 10: {color: "#6e8c4a"}
Background Servi ▶11: {color: "#c3fc56"}
  ↑ Backgroun

12: {color: "#9ac59d"}

13: {color: "#4f44f6"}
  ♠ Backgroun ▶ 14: {color: "#4f65a4"}
  Notificatio ► 15: {color: "#4d0b51"}
  ☐ Payment H ▶ 16: {color: "#7999d5"}
```

Ex5: Responsive navigation bar

- index.html

```
index.html > ♦ html > ♦ body > ♦ div.nav-bar
    <!DOCTYPE html>
    <html lang="en">
       <meta charset="UTF-8">
       <title>Exercise 5 Nav-bar</title>
       <link rel="stylesheet" href="./navbar.css</pre>
          <div class="logo"><a href="http://youtube.com">NAV-BAR</a></div>
          <a href="#">Home</a>
             <a href="#">About</a>
             <a href="#">Project</a>
<a href="#">Contact</a>
          <a href="#"><i class='bx bxl-facebook-circle'></i></a>
             <a href="#"><i class='bx bxl-linkedin-square' ></i></a>
             <a href="#"><i class='bx bxs-diamond' ></i></a>
          <div class="hamburger-menu" onclick="enable_menu()">
             <a href="#"><i class='bx bx-menu' id="icon-ham"></i></a>
30
       <div class="sub-bar" id="my-nay">

    <a href="#">Home</a>
             <a href="#">About</a>
             <a href="#">Project</a>
             <a href="#">Contact</a>
       <script src="./navbar.js"></script>
```

```
Exercise5 > 3 navbar.css > 4 .nav-bar
     body {
           margin: 0;
           background-color: __rgb(245, 242, 242);
       .nav-bar {
         height: 60px;
          width: 100%;
           background-color: #fafafa;
           box-shadow: □rgba(60, 64, 67, 0.3) 0px 1px 2px 0px, □rgba(60, 64, 67, 0.15) 0px 1px 3px 1px;
         border-radius: 3px;
         display: ⊞flex;
         align-items: center;
        justify-content: space-around;
margin-top: 5px;
      .nav-bar .logo {
         font-size: x-large;
      .logo>a {
        text-decoration: none; cursor: pointer;
         color: □rgba(24, 29, 34, 0.6);
       .logo>a:hover {
        color: □rgba(61, 133, 198, .9);
       .nav-bar>ul {
        display: ⊞flex;
      .nav-bar>ul>li {
        list-style-type: none;
      li>a {
       text-decoration: none;
               .menu>li>a {
font-size: large;
color: □rgba(36, 36, 36, .7)
padding: 18px 19px 19px;
             .menu>li>a:hover {
    border-top: 20px solid □ rgba(61, 133, 198, 1);
    border-bottom: 1px solid □ rgba(61, 133, 198, 1);
    color: □ rgba(61, 133, 198, .8);
    background-color: □ rgba(61, 133, 198, .1);
              .social {
   list-style-type: none;
               .social>li>a>i:hover {
   transform: scale(1.3);
               .social>li>a>i {
color: □rgba(61, 133, 198, .9);
               .hamburger-menu {
   display: none;
   position: absolute;
   color: □rgb(25, 27, 27);
   right: 1rem;
```

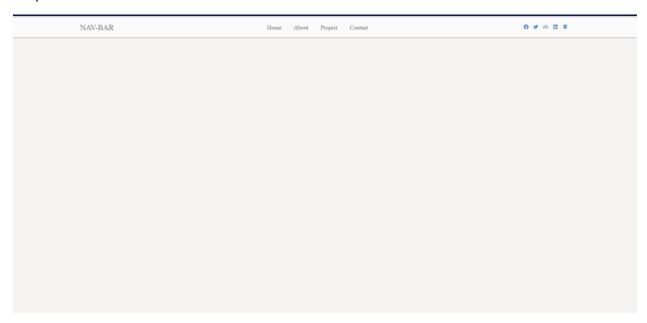
```
.sub-bar {
          display: none;
 84
          position: relative;
          height: auto;
          background-color: #fafafa;
      .sub-bar>ul {
          margin: 0;
      .sub-menu>li>a {
          color: □rgba(36, 36, 36, .7);
      @media screen and (max-width: 790px) {
          .nav-bar .logo {
              font-size: medium;
          .menu>li>a {
              padding: 10px 11px 11px 11px;
              font-size: smaller;
      }
      @media screen and (max-width: 600px) {
          .menu>li,
          .social>li {
110
              display: none;
111
112
          .hamburger-menu {
113
              display: block;
114
115
          .responsive {
              display: block;
116
              color: aqua;
117
118
              float: none;
119
              flex-direction: column;
120
121
          .responsive>ul>li {
122
              margin: 0 .5rem .5rem .5rem;
123
              list-style-type: none;
124
```

- navbar.js

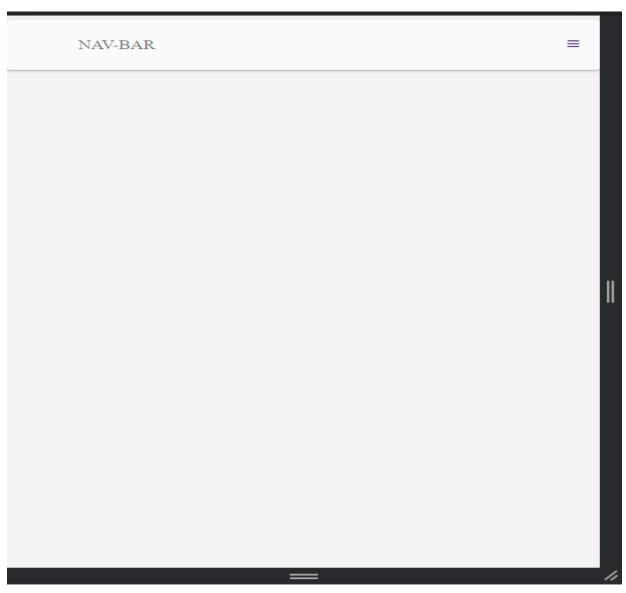
```
Exercise5 > Js navbar.js > [@] enable_menu

2  var enable_menu = () => {
3     let en = document.getElementById('my-nav');
4     let hamburger = document.getElementById('icon-ham');
5     if (en.className == 'sub-bar') {
6         en.className += ' responsive';
7         hamburger.className += 'bx-rotate-90';
8     }
9     else {
10         en.className = 'sub-bar';
11         hamburger.className = 'bx bx-menu';
12     }
13 }
```

Output for Ex5:



- Responsive navigation page



NAV-BAR			
Home			
About			
Project			
Contact			
	=		
			•

- index.html

```
Exercise6 > 🥫 index.html > 🤣 html > 🤣 body > 🤣 div#side.side-bar > 🤀 ul.social > 🤡 li > 🤡 a
      <!DOCTYPE html>
      <html lang="en">
         <meta charset="UTF-8">
         <meta http-equiv="X-UA-Compatible" content="IE=edge">
         <title>Exercise 6 Side Bar</title>
         <link href='https://unpkg.com/boxicons@2.1.1/css/boxicons.min.css' rel='stylesheet'>
<link rel="stylesheet" href="_/sidebar.css">
                 <div>SIDE-BAR</div>
                 <div onclick="sidebar()"><a href="#"><i class='bx bx-x bx-md'></i></a></div>
                <a href="#1">Home</a>
                 <a href="#">About</a>
                <a href="#">Projects</a>
                <a href="#">Contact</a>
                <a href="#"><i class='bx bxl-facebook-circle'></i></a>
                <a href="#"><i class='bx bxl-twitter'></i></a>
                 <a href="#"><i class='bx bxs-diamond' ></i></a>
         <div class="hamburger-menu" onclick="sidebar()">
             <a href="#"><i class="bx bx-menu"></i></a>
```

- sidebar.css

```
Exercises > sidebar.css > responsive

| body {
| margin: 0; padding: 0; background-color: pgba(239, 244, 251, 0.912);
| background-color: pgba(239, 244, 251, 0.912);
| side-bar {
| display: none; width: 300px; beight: auto; padding: 10px 0 1px 0; padding: 10px 0 1px 0; padding: 10px olid padding: 10px solid pgba(150, 186, 220, 0.8); padding: 10px solid pgba(150, 197, 232, .8);
| border-right: 2px solid pgba(150, 197, 232, .8);
| border-bottom: 2px solid pgba(150, 197, 232, .8);
| responsive {
| display: block;
| display: block;
| side-bar content {
| ist-style-type: none; margin: 20px 0 0 -40px;
| side-bar .content>li {
| margin: 0 5px 0 5px; padding: 10px 0 10px 0; padding: 5px; padding: 10px 0 10px 0; side-bar .content>li: fort-size: large; border-top-left-radius: 5px; padding: 10px 0 10px 0; side-bar .content>li:hover {
| font-weight: 600; padding: 10px 0 10px 0; padding: 5px; p
```

```
.side-bar .content>li>a {
       padding: 10px 230px 10px 25px;
        text-decoration: none;
        color: Trgba(4, 74, 171, 0.7);
    .side-bar .content>li>a:hover {
        color: □rgba(61, 133, 198, .9);
    .side-bar .content>li:hover {
        border-right: 3px solid □ rgba(198, 100, 61, 0.9);
        background-color: □rgba(188, 188, 188, .5);
    .side-bar .head {
        justify-content: space-between;
        padding: 0 10px 0 10px;
    }
   .side-bar .head>div>a>i {
       color: rgb(249, 27, 27);
    .social {
       margin-top: 90%;
       margin-left: -50px;
70
       justify-content: center;
       list-style-type: none;
72
   .social>li {
       color: __rgb(238, 233, 243);
       margin: 0 3px 0 3px;
78
       font-size: x-large;
79
 81
       .social>li>a>i:hover {
           transform: scale(1.1);
 83
 84
 85
       .social>li>a>i {
           color: □rgba(61, 133, 198, .9);
 86
 87
 88
 89
      .hamburger-menu {
 90
           font-size: x-large;
 91
           padding: 10px 0 0 10px;
 92
       }
```

- sidebar.js

Output for Ex6:

