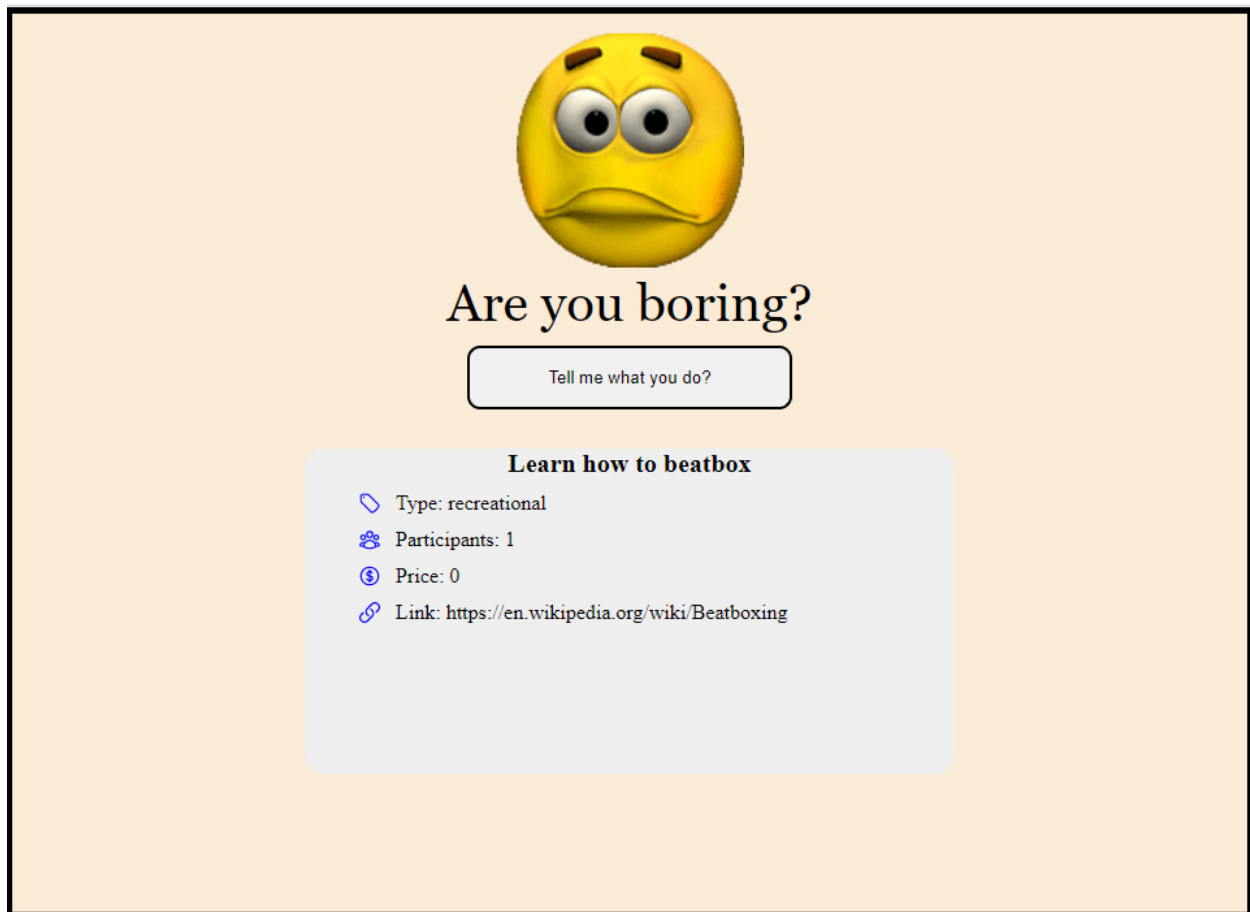Name: Ty Chhenglong

ID: e20191217

Group: GIC-C

Result TP05 Internet Programming

Exercise01: Create a web app to random activity for suggesting activity to a boring person. Use Fetch function in JavaScript to request the data from the server.

```
 9    <style>
10        *{
11            box-sizing: border-box;
12            margin: 0;
13            padding: 0;
14        }
15        .container{
16            width: 50%;
17            height: 700px;
18            background-color: antiquewhite;
19            margin: 0 auto;
20            text-align: center;
21            border: 5px solid black;
22        }
23        img{
24            margin-top: 15px;
25            width: 175px;
26            height: 180px;
27        }
28        p{
29            font-size: 40px;
30            font-family: Georgia, 'Times New Roman', Times, serif;
31        }
32        button{
33            width: 250px;
34            padding: 15px;
35            margin-top: 10px;
36            border-radius: 10px;
37            cursor: pointer;
38        }
39        button:hover{
40            color: white;
41            background-color: cornflowerblue;
42        }
43        .main{
44            display: flex;
45            justify-content: center;
46            position: relative;
47        }
48        .content{
49            width: 500px;
50            height: 250px;
51            background-color: #eee;
52            border-radius: 15px;
53            margin-top: 30px;
54        }
55        .content svg{
56            width: 18px;
57            height: 20px;
58            color: blue;
59        }
```

```
123    <script>
124        const loadingTextEle = document.getElementById("loading-text");
125        const activityNameEle = document.getElementById("activity-name");
126        const Type = document.getElementById("Type");
127        const participants = document.getElementById("participants");
128        const price = document.getElementById("price");
129        const link = document.getElementById("link");
130
131
132        activityNameEle.innerHTML = "";
133        Type.innerHTML = "";
134        participants.innerHTML = "";
135        price.innerHTML = "";
136        link.innerHTML = "";
137
138
139        function getAnActivity(){
140            activityNameEle.innerHTML = "";
141            Type.innerHTML = "";
142            participants.innerHTML = "";
143            price.innerHTML = "";
144            link.innerHTML = "";
145            loadingTextEle.hedden = false;
146
147            fetch("http://www.boredapi.com/api/activity/")
148                .then(async (res) => {
149                    const data = await res.json();
150                    activityNameEle.innerHTML = data['activity'];
151                    Type.innerHTML ="Type: "+ data['type'];
152                    participants.innerHTML ="Participants: "+ data['participants'];
153                    price.innerHTML ="Price: "+ data['price'];
154                    link.innerHTML ="Link: "+ data['link'];
155
156                }).catch((err) => {
157                    console.log(err);
158                }).finally(() => {
159                    loadingTextEle.hidden = true;
160                })
161        }
162    </script>
163  </body>
164  </html>
```

```
            }
        .text1 svg{
            position: absolute;
            top: 22%;
            left: 28%;
        }
        .text2 svg{
            position: absolute;
            top: 32%;
            left: 28%;
        }
        .text3 svg{
            position: absolute;
            top: 42%;
            left: 28%;
        }
        .text4 svg{
            position: absolute;
            top: 52%;
            left: 28%;
        }
        #active-name{
            font-size: 20px;
            margin-top: 5px;
        }
    </style>
</head>
<body>
    <div class="container">
        <img src="../TP05/blink-emoji.gif" alt="">
        <p>Are you boring?</p>
        <button onclick="getAnActivity()" class="btn btn-outline-primary  rounded-3 border-2 px-4 ">Tell me what you do?</button>
        <div class="main">
            <div class="content">
                <div id="loading-text"></div>
                <div id="activity-name" style="font-size: 20px; font-family: AKbalthom Seo; font-weight: bold  ;">Activity name</div>
                <div id="Type" style="text-align: left; padding-top: 10px; margin-left: 70px;">Activity type</div>
                <div id="participants" style="text-align: left; padding-top: 10px; margin-left: 70px;">participants</div>
                <div id="price" style="text-align: left; padding-top: 10px; margin-left: 70px;">price</div>
                <div id="link" style="text-align: left; padding-top: 10px; margin-left: 70px;">link</div>
                <div class="text1">
                    <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
                    <path stroke-linecap="round" stroke-linejoin="round" d="M9.568 3H5.25A2.25 2.25 0 003 5.25v4.318c0 .597.237 1.17.
                    <path stroke-linecap="round" stroke-linejoin="round" d="M6 6h.008v.008H6V6z" />
                    </svg>
                </div><br>
                <div class="text2">
                    <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
                    <path stroke-linecap="round" stroke-linejoin="round" d="M18 18.72a9.094 9.094 0 003.741-.479 3 3 0 00-4.682-2.72m
                    </svg>
                </div><br>
                <div class="text3">
                    <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
                    <path stroke-linecap="round" stroke-linejoin="round" d="M12 6v12m-3-2.8l8.879.659c1.171.879 3.07.879 4.242 0 1.1
                    </svg>
                <div class="text3">
                    <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
                    <path stroke-linecap="round" stroke-linejoin="round" d="M12 6v12m-3-2.8l8.879.659c1.171.879 3.07.879 4.242 0 1.1
                    </svg>
                </div><br>
                <div class="text4">
                    <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" stroke-width="1.5" stroke="currentColor"
                    <path stroke-linecap="round" stroke-linejoin="round" d="M13.19 8.688a4.5 4.5 0 011.242 7.244l-4.5 4.5a4.5 4.5 0 0
                    </svg>
                </div>
            </div>
        </div>
    </div>
```

Exercise02: Create a web app to guess a person's gender by providing a person's name. Use Fetch function in JavaScript to request the data from the server

```html
<style>
    *{
        box-sizing: border-box;
        margin: 0px;
        padding: 0px;
    }
    .content{
        width: 700px;
        height: 600px;
        margin: 0 auto;
        background-color: bisque;
        text-align: center;
        border: 5px solid black;
    }
    img{
        width: 120px;
        height: 130px;
        margin-top: 30px;
    }
    h1{
        font-family:'Vernon Adams';
        color: blue;
        margin: 20px;
    }
    input{
        padding: 12px;
        border-radius: 10px;
        color: rgb(138, 133, 133);
        cursor: pointer;
    }
    button{
        width: 100px;
        padding: 12px;
        font-size: 14px;
        border-radius: 10px;
        cursor: pointer;
    }
    button:hover{
        background-color: blue;
        color: white;
    }
    #result{
        width: 315px;
        height: 200px;
        font-size: 45px;
        font-weight: bold;
        color: coral;
        background-color: #fff;
        margin-top: 20px;
        margin-left: 27%;
        border-radius: 15px;
        display: flex;
        align-items: center;
        justify-content: center;
    }
</style>
</head>
<body>
    <div class="content">
        <img src="../TP05/emoji-emoticon.gif" alt=""><br>
        <h1>I know Your Gender</h1>
        <input id="name-input" type="text" placeholder="Tell me your name">
        <button onclick="getGender()">Guess</button>
        <div id="result"></div>
    </div>

</body>
<script>
    const nameInput = document.getElementById("name-input");
    const result = document.getElementById("result");

    function getGender() {
    const name = nameInput.value;
    const gender = `https://api.genderize.io?name=${name}`;

    fetch(gender)
        .then(response => response.json())
        .then(data => {
        if (data.gender) {
            result.innerHTML = `${name} is ${data.gender} ${(data.probability * 100)}%`;
        }
        else {
            result.innerHTML = `Could not found name ${name}`;
        }
        })
        .catch(error => {
        console.error(error);
        result.innerHTML = "An error occurred while fetching data";
        });
    }
</script>
```

Exercise03: Create a web app to guess a person's nationality by providing a person's name. Use Fetch function in JavaScript to request the data from the server.

```css
64          .content>:nth-child(3) button {
65              width: fit-content;
66              padding: 12px;
67              padding-left: 1rem;
68              padding-right: 1rem;
69              border-radius: 6px;
70              border: none;
71              font-weight: bold;
72              background-color: hsl(220, 100%, 55%);
73              color: white;
74          }
75          .content>:nth-child(3) button:hover {
76              cursor: pointer;
77          }
78          #guessing {
79              height: 100%;
80              width: 21rem;
81              margin-top: 10px;
82              min-width: 10rem;
83              border-radius: 5px;
84              font-family: sans-serif;
85              display: flex;
86              flex-direction: column;
87              row-gap: 5%;
88          }
89          #guessing>*{
90              width: calc(100% - 1rem);
91              background-color: #e8e7e7;
92              border-radius: 10px;
93              border: 1px solid rgb(111, 111, 111);
94              padding: 0.7rem;
95              display: flex;
96              justify-content: space-between;
97          }
98          #guessing>*>:first-child{
99              font-weight: bold;
100         }
101         #guessing>*>:last-child{
102             font-weight: bold;
103             color: hsl(32, 87%, 50%);
104         }
105         .noData{
106             color: coral;
107             font-size: 3rem;
108         }
109         .center{
110             width: 100%;
111             height: 100%;
112             display: flex;
113             justify-content: center;
114             align-items: center;
115         }
116     </style>
```

```css
20      }
21      .content {
22          width: 800px;
23          height: 600px;
24          padding: 2rem;
25          border: 5px solid black;
26          display: flex;
27          flex-direction: column;
28          justify-content: center;
29          align-items: center;
30          overflow: auto;
31      }
32      .content>:nth-child(1) {
33          height: 50%;
34      }
35      .content>:nth-child(2) {
36          height: 18%;
37          font-family: Irish Grover;
38          font-size: 2rem;
39      }
40
41      .content>:nth-child(3) {
42          height: 15%;
43          display: flex;
44          justify-content: center;
45          align-items: center;
46          column-gap: 1rem;
47      }
48      .content>:nth-child(3) input {
49          height: 80%;
50          border: 1px solid #d5d5d5e1;
51          border-radius: 7px;
52      }
53      img {
54          height: 8rem;
55      }
56      input {
57          width: 250px;
58          padding: 15px;
59          font-size: 15px;
60      }
61      input:focus::placeholder {
62          color: transparent ;
63      }
64      .content>:nth-child(3) button {
65          width: fit-content;
66          padding: 12px;
67          padding-left: 1rem;
68          padding-right: 1rem;
69          border-radius: 6px;
70          border: none;
71          font-weight: bold;
72          background-color: hsl(220, 100%, 55%);
73          color: white;
74      }
```

```html
118  <body>
119    <div class="content">
120      <div style="font-size: 5rem;">
121        <img src="./globe-showing-americas_1f30e.png" alt="">
122      </div>
123      <div>I know your <span style="color:▢hsl(224, 92%, 49%)">Home</span></div>
124      <div>
125        <input type="text" id="name" placeholder=" Tell me your first name">
126        <button onclick="getAnActive()">Guess</button>
127      </div>
128      <div id="loading"></div>
129      <div id="guessing"></div>
130    </div>
131    <script>
132      const home = document.getElementById("guessing");
133      const name = document.getElementById("name");
134      const loading=document.getElementById("loading");
135      loading.style.visibility="hidden";
136
137      function getAnActive() {
138        if(noData()) return;
139        home.innerHTML="";
140        loading.style.visibility="visible";
141        fetch(`https://api.nationalize.io/?name=${name.value}`).then(async (res) => {
142
143          let data = await res.json();
144          let obj=data.country;
145
146          if(nullCountry(obj)) return;
147          home.innerHTML="";
148          for(let n of obj){
149            home.innerHTML+=`<div> <div>${n.country_id}</div> <div>${(n.probability*100).toFixed(1)}%</div> </div>`
150          }
151
152        }).then(()=>{
153          loading.style.visibility="hidden"
154        }).catch(()=>{
155          home.innerHTML=`<div> <div class="center"> <div class="noData ">Not Found!</div> </div> </div>`
156          loading.style.visibility="hidden"
157        })
158      }
159
160      function noData(){
161        if(name.value==""){
162          home.innerHTML=`<div> <div class="center"><div class="noData ">Not Found!</div> </div>< /div>`
163          return true;
164        }
165        return false;
166      }
167
168      function nullCountry(obj){
169        if(obj==undefined) return false;
170        if(obj.length==0){
171          home.innerHTML=`<div> <div class="center"><div class="noData ">Not Found!</div> </div> </div>`
172          return true;
173        }
174        return false;
175      }
176    </script>
177  </body>
178  </html>
```


I know your Home

Long   Guess

VN	63.2%
CN	7.2%
KH	6.3%
HK	4.6%
TW	2.0%

Exercise04: Create a web app to display a list of university of a country. Use Fetchfunction in JavaScript to request the data from the server.

```css
18    body{
19        display: flex;
20        height: 100vh;
21        justify-content: center;
22        align-items: center;
23    }
24    .content{
25        flex-direction: column;
26        width: 850px;
27        height: 690px;
28        overflow-x: auto;
29        border: 5px solid ☐black;
30        text-align: center;
31    }
32    .content img{
33        margin-top: 15px;
34        width: 190px;
35    }
36    .content h3{
37        margin: 10px;
38        font-size: 25px;
39        color: ☐cornflowerblue;
40        font-family: 'Irish Grover', cursive;
41    }
42    .content select{
43        padding: 0px 10px;
44        width: 250px;
45        height: 40px;
46        border-radius: 5px;
47    }
48    #display{
49        width: 750px;
50        height: 160px;
51        margin: 10px auto;
52        border: 1px solid ☐black;
53        border-radius: 10px;
54        background-color: ☐aliceblue;
55    }
56    #loading{
57        padding-top: 65px;
58        font-size: 30px;
59    }
60    #show{
61        display: flex;
62        flex-wrap: wrap;
63    }
64    .university{
65        margin: 14px;
66        width: 220px;
67        padding: 10px 10px;
68        font-size: 13px;
69        border: 1px solid ☐black;
70        border-radius: 10px;
71        background-color: ■#eee;
72    }
73    .link{
74        display: flex;
75        justify-content: center;
76        align-items: center;
77    }
78    .link i{
79        margin: 10px 2px;
80        margin-right: 5px;
81        color: ☐rgb(9, 73, 176);
82    }
83    .link a{
```

```html
88    <body>
89        <div class="content">
90            <img src="./University.jpg" alt="university">
91            <h3>Which Univ. do you want to study?</h3>
92  >         <select name="country" id="country" onchange="fetchData()">…
346           </select>
347           <div id="display">
348               <div id="loading"></div>
349               <div id="listing">
350                   <div id="show"></div>
351               </div>
352           </div>
353       </div>
354       <script>
355           let display = document.getElementById('display');
356           display.hidden = true;
357
358           function fetchData() {
359               display.hidden = false;
360               display.style.background = "aliceblue";
361               display.style.border = "1px solid black";
362               let loading = document.getElementById('loading');
363               let listing = document.getElementById('listing');
364
365               loading.hidden = false;
366               listing.hidden = true;
367               let countrySelect = document.getElementById('country');
368               console.log(countrySelect.value);
369
370               fetch(`http://universities.hipolabs.com/search?country=${countrySelect.value}`)
371                   .then(async(result) => {
372                       let show = document.getElementById('show');
373                       loading.hidden = true;
374                       listing.hidden = false;
375                       display.style.background = "white";
376                       display.style.border = "none";
377
378                       let data = await result.json();
379                       for(let x of data) {
380                           console.log(x.domains);
381                           show.innerHTML += `
382                               <div class="university"><span>${x.name}</span><br>
383                               <span>${x.country} - ${x.apha_two_code}</span><br>
384                               <div class="link">
385                               <i class="fa-solid fa-earth-americas"></i>
386                               <a href="${x.web_pages[0]}"> ${x.web_pages[0]}</a></div></div>`;
387                       }
388                       console.log(data[0].domains);
389                   })
390                   .catch((error) => {
391                       loading.hidden = true;
392                       listing.hidden = true;
393                       console.log("Error: "+error);
394                   })
395           }
396       </script>
397   </body>
398   </html>
```

Which Univ. do you want to study?

Australia

Australian Correspondence Schools {Australia - undefined}br> 🌐 http://www.acs.edu.au/	Australian Catholic University {Australia - undefined}br> 🌐 http://www.acu.edu.au/	University of Adelaide {Australia - undefined}br> 🌐 http://www.adelaide.edu.au/
Australian Defence Force Academy {Australia - undefined}br> 🌐 http://www.adfa.oz.au/	Australian Lutheran College {Australia - undefined}br> 🌐 http://www.alc.edu.au/	Australian Maritime College {Australia - undefined}br> 🌐 http://www.amc.edu.au/
Australian National University {Australia - undefined}br> 🌐 http://www.anu.edu.au/	Avondale College {Australia - undefined}br> 🌐 http://www.avondale.edu.au/	Federation University Australia {Australia - undefined}br> 🌐 http://federation.edu.au/

Eercise05: Apply fetch function to our previous book app.

Name

JavaScript

Category

Programming

Price

50000 riels

Add

Title : accusamus ...
Id : 1
Album ID : 1
see

Title : reprehende...
Id : 2
Album ID : 1
see

Title : officia po...
Id : 3
Album ID : 1
see

Title : culpa odio...
Id : 4
Album ID : 1
see

Title : natus nisi...
Id : 5
Album ID : 1
see

Title : accusamus ...
Id : 6
Album ID : 1
see

Title : officia de...
Id : 7
Album ID : 1
see

Title : aut porro ...
Id : 8
Album ID : 1
see

Title : qui eius q...
Id : 9
Album ID : 1
see

Title : beatae et ...
Id : 10
Album ID : 1
see

Title : nihil at a...
Id : 11
Album ID : 1
see

Title : mollitia s...
Id : 12
Album ID : 1
see

soluta et harum aliquid officiis ab omnis consequatur

2

53

```css
    .items>img {
        margin-top: 10px;
        margin-bottom: 10px;
    }
    .items .name,
    .price,
    .category {
        text-align: start;
        margin-left: 10px;
        padding-top: 10px;
    }
    .items>button {
        text-align: start;
    }
    .button {
        margin-top: 10px;
        margin-bottom: 5px;
    }
    .button .editBtn,
    .deleteBtn {
        border-radius: 5px;
        background-color: rgb(61, 133, 198);
        color: white;
        border-style: outset;
        border-color: #0066A2;
        text-shadow: none;
        height: 30px;
    }
    .deleteBtn {
        margin-left: 4px;
        background-color: rgba(239, 54, 54);
    }
    .edit_book {
        margin-left: -55px;
        text-align: center;
        width: 60px;
    }
    .items>img {
        height: 90px;
    }
    .loading {
        justify-content: center;
        align-items: center;
    }
    .btn {
        border: none;
        background: none;
        appearance: none;
        width: 35px;
        margin: 8px;
        padding: 3px;
        text-decoration: underline;
        display: flex;
    }
    .btn>a {
        text-decoration: none;
    }
    @import url(https://fonts.googleapis.com/css?family=Roboto:100);
    h1 {
        font: 2em 'Roboto', sans-serif;
        margin-bottom: 40px;
    }
    .loader {
        display: inline-block;
        width: 50px;
        height: 50px;
        margin: 50px;
        padding: 50px;
        border: 3px solid rgba(51, 221, 13, 0.804);
        border-radius: 50%;
        border-top-color: #ca1010;
        -webkit-animation: spin 1s ease-in-out infinite;
        animation: spin 1s ease-in-out infinite;
    }
    @keyframes spin {
        to {
            -webkit-transform: rotate(360deg);
        }
    }
    @-webkit-keyframes spin {
```

```css
    .container {
        width: 80%;
        height: 1000px;
        display: flex;
        justify-content: center;
    }
    .add {
        height: 100vh;
        width: 300px;
        background-color: #eee;
        position: fixed;
        padding: 15px;
        border-radius: 10px;
    }
    .add input[type=text] {
        width: 100%;
        border: 2px solid #aaa;
        border-radius: 4px;
        margin: 8px 0;
        outline: none;
        padding: 8px;
        box-sizing: border-box;
        transition: .3s;
    }
    .add input[type=text]:focus {
        border-color: dodgerBlue;
        box-shadow: 0 0 8px 0 dodgerBlue;
    }
    .add .edit_book {
        visibility: hidden;
    }
    .add_book,
    .edit_book {
        background-color: #aaa;
        color: white;
        border-style: outset;
        border-color: #0066A2;
        height: 25px;
        width: 50px;
        font: bold15px arial, sans-serif;
        text-shadow: none;
        height: 30px;
        margin-top: 10px;
        border-radius: 5px;
    }
    .edit_book {
        background-color: rgb(61, 133, 198);
    }
    .home {
        height: auto;
        width: 800px;
        top: 0px;
        display: flex;
        flex-wrap: wrap;
        margin-left: 350px;
        border-radius: 10px;
        background-color: #ffffff;
    }
    .home .book-info {
        background-color: rgba(147, 196, 125, 1);
        text-align: center;
        height: 35px;
        font-size: large;
        color: #ffffff;
        position: sticky;
        width: 780px;
        margin: 10px 0 10px 10px;
        border-radius: 5px;
    }
    .home .items {
        text-align: center;
        width: 23%;
        margin: 1%;
        margin-left: 1%;
        box-shadow: rgba(15, 15, 15, 0.3) 0px 7px 29px 0px;
        border-radius: 10px;
    }
    .items>img {
```

```
              -webkit-animation: spin 1s ease-in-out infinite;
              animation: spin 1s ease-in-out infinite;
          }
          @keyframes spin {
              to {
                  -webkit-transform: rotate(360deg);
              }
          }
          @-webkit-keyframes spin {
              to {
                  -webkit-transform: rotate(360deg);
              }
          }
      </style>

  </head>
  <body>
      <div class="loading">
          <div class="loader"></div>
      </div>
      <div class="container">
          <form autocomplete="off" onsubmit="onFormSubmit()">
              <div class="add">
                  <label for="name_book">Name</label>
                  <input type="text" name="name" id="name_book" placeholder="JavaScript" onclick="if(this.placeholder == 'JavaScript') {this.placeholder = ''}"
                  onBlur="if(this.placeholder == '') {this.placeholder = 'c programming'}" />
                  <label for="category_book">Category</label>
                  <input type="text" name="category" id="category_book" placeholder="Programming" onclick="if(this.placeholder == 'Programming') {this.placeholder = ''}"
                  onBlur="if(this.placeholder == '') {this.placeholder = 'coding'}" />
                  <label for="price_book">Price</label>
                  <input type="text" name="price_book" id="price_book" placeholder="50000 riels" onclick="if(this.placeholder == '50000 riels') {this.placeholder = ''}"
                  onBlur="if(this.placeholder == '') {this.placeholder = '1000 riels'}" />
                  <button type="submit" class="add_book">Add</button>
                  <button type="submit" class="edit_book">update</button>

              </div>
          </form>
          <div class="home" id="add_items"></div>
          <script>
              var selectedRow = null;
              let header = document.getElementsByClassName("header-add")[0];
              //read data from local storage and display
              let books = [{}];
              const getB = localStorage.getItem('books');
              const dataB = JSON.parse(getB);

              let results = [];
              let output = '';
              var loading = (value) => {
                  if (value == 'true') {
                      setTimeout(() => {

                      }, 1000)
                      document.getElementsByClassName('loading')[0].style.display = 'flex'
                      document.getElementsByClassName('container')[0].style.display = 'none'
                  } else {
                      document.getElementsByClassName('container')[0].style.display = 'flex';
                      document.getElementsByClassName('loading')[0].style.display = 'none';
                  }
              }
              loading("true");

              fetch('https://jsonplaceholder.typicode.com/photos').then(async(res) => {
                  results = await res.json();
                  var title = '';
                  for (result in results) {
                      output +=
                          `<div class="items">` +
                          `<img src="${results[result].url}" alt="#">` +
                          `<div class="name">Title : ${results[result].title.toString().substring(0, 10)}...</div>` +
                          `<div class="price">Id : ${results[result].id}</div>` +
                          `<div class="category">Album ID : ${results[result].albumId}</div>` +
                          `<button class="btn">` +
                          `<a href="./fetchapi-detail.html?bookid=${parseInt(result)+1}">see</a>` +
                          `</button>` +
                          `</div>`;
                  }
```

```javascript
        document.getElementById("add_items").innerHTML += output;

        setTimeout(() => {
            loading("false");
        }, 100)

    });

    function onFormSubmit(e) {
        event.preventDefault();
        var formData = readFormData();
        if (selectedRow === null) {
            insertNewRecord(formData);
        } else {
            updateRecord(formData);
        }
        resetForm();
    }

    //clear placeholder
    document.querySelector('.add_book').placeholder = '';

    //Retrieve the data
    function readFormData() {
        var formData = {};
        formData["name_book"] = document.getElementById("name_book").value;
        formData["price_book"] = document.getElementById("price_book").value;
        formData["category_book"] = document.getElementById("category_book").value;

        return formData;
    }
    //Insert the data
    function insertNewRecord(data) {
        const getdata = localStorage.getItem('books');
        let databookss = JSON.parse(getdata);

        books = Object.assign([{}], databookss);
        let x;
        if (databookss == null) {
            x = 0
        } else {
            x = databookss.length;
        }
        const book = {
            name: `${data.name_book}`,
            price: `${data.price_book}`,
            category: `${data.category_book}`
        };
        books[x] = book;
        localStorage.setItem('books', JSON.stringify(books));
        let databooks = getbooks();

        document.getElementById("add_items").innerHTML +=
            `<div class="items">` +
            `<img src="./img/book.png" alt="#">` +
            `<div class="name">Name : ${databooks[x].name}</div>` +
            `<div class="price">Price : ${databooks[x].price} riels</div>` +
            `<div class="category">Category : ${databooks[x].category}</div>` +
            `<div class="button">` +
            `<button id="${parseInt(x)}" class="editBtn" onclick="editBook(this.id)">Edit</button>` +
            `<button id="${parseInt(x)}" class="deleteBtn" onclick="deleteBook(this.id)">Delete</button>` +
            `</div>` +
            `</div>`;
    }
    //Edit the data
    function editBook(id) {
        header.innerHTML = "Edit information here!";
        header.style.backgroundColor = "rgb(61,133,198)";

        let getdatabooks = getbooks();

        selectedRow = id;
        document.getElementsByClassName("edit_book")[0].style.visibility = 'visible';
        document.getElementsByClassName("add_book")[0].style.visibility = 'hidden';

        document.getElementById('name_book').value = getdatabooks[id].name;
        document.getElementById('price_book').value = getdatabooks[id].price;
        document.getElementById('category_book').value = getdatabooks[id].category;
    }
```

```javascript
    function updateRecord(formData) {
        document.getElementsByClassName("name")[selectedRow].innerHTML = "Name : " + formData.name_book;
        document.getElementsByClassName("price")[selectedRow].innerHTML = "Price : " + formData.price_book + " riels";
        document.getElementsByClassName("category")[selectedRow].innerHTML = "Category : " + formData.category_book;
        document.getElementsByClassName("edit_book")[0].style.visibility = 'hidden';
        document.getElementsByClassName("add_book")[0].style.visibility = 'visible';

        //get books from localstorage
        let bookss = getbooks();
        const bookUpdate = {
            name: `${formData.name_book}`,
            price: `${formData.price_book}`,
            category: `${formData.category_book}`
        };

        //merge bookss to books
        books = Object.assign([{}], bookss);
        books[selectedRow] = bookUpdate;
        localStorage.setItem('books', JSON.stringify(books));

        document.getElementsByClassName("header-add")[0].innerHTML = "Add new book here!";
        header.style.backgroundColor = "rgb(147, 196, 125)";
        selectedRow = null;
    }

    //delete
    function deleteBook(id) {
        //get books from localstorage
        let databooks = getbooks();
        if (confirm('Do you want to delete this record?')) {
            //remove books at id and count 1
            databooks.splice(id, 1);
            localStorage.setItem('books', JSON.stringify(databooks));

            //reset home to update id element
            document.getElementById("add_items").innerHTML = '';
            document.getElementById("add_items").innerHTML = `<div class="book-info">Book</div>`;
            for (databook in databooks) {
                document.getElementById("add_items").innerHTML +=
                    `<div class="items">` +
                    `<img src="./img/book\.png" alt="#">` +
                    `<div class="name">Name : ${databooks[databook].name}</div>` +
                    `<div class="price">Price : ${databooks[databook].price} riels</div>` +
                    `<div class="category">Category : ${databooks[databook].category}</div>` +
                    `<div class="button">` +
                    `<button id="${parseInt(databook)}" class="editBtn" onclick="editBook(this.id)">Edit</button>` +
                    `<button id="${parseInt(databook)}" class="deleteBtn" onclick="deleteBook(this.id)">Delete</button>` +
                    `</div>` +
                    `</div>`;
            }
        }
        resetForm();
    }

    function resetForm() {
        document.getElementById('name_book').value = '';
        document.getElementById('price_book').value = '';
        document.getElementById('category_book').value = '';
    }
    //get books from localstorage
    function getbooks() {
        const getbooks = localStorage.getItem('books');
        let databooks = JSON.parse(getbooks);
        return databooks;
    }
    </script>
    </div>
</body>
</html>
```