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GitHub Repository URL: https://github.com/Dapravith/TP_Internet_Programming/tree/TP05

Ex1: Activity Suggestion

- index.html

```html
Exercise01 > 5 index.html > ✪ html > ✪ body > ✪ div.container-box > ✪ div#loading.activity
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Ex1 Activity Suggestion</title>
8      <link rel="stylesheet" href="./style.css">
9  </head>
10 <body>
11     <div class="container-box">
12         <img src="./img/bored.gif" alt="bored"><br>
13         <h3>Are you boring?</h3>
14         <button id="button" onclick="loadActivity()">Tell me what to do?</button>
15         <div id="loading" class="activity">
16             <div id="toLoad" class="loading">loading ....</div>
17             <div id="load" class="load">
18                 <h5 id="act" ></h5>
19                 <div class="title">
20                     <p id="type" >Type: </p>
21                     <p id="participant" >Participants: </p>
22                     <p id="price" >Price: $</p>
23                     <p id="link" >Link: https://www.pagat.com</p>
24                 </div>
25             </div>
26         </div>
27     </div>
28
29     <script src="./app.js"></script>
30 </body>
31 </html>
```

-style.css

```css
1   @import url('https://fonts.googleapis.com');
2   @import url('https://fonts.gstatic.com');
3   @import url('https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap');
4   @import url('https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.3.0/css/all.min.css');
5
6   * {
7       margin: 0px;
8       padding: 0px;
9       box-sizing: border-box;
10  }
11
12  body {
13      display: ▦ flex;
14      height: 700px;
15      width: auto;
16      justify-content: center;
17      align-items: center;
18  }
19  .container-box {
20      border: 5px solid ☐rgb(32, 31, 31);
21      width: 700px;
22      height: 500px;
23      text-align: center;
24      display: ▦ flex;
25      flex-direction: column;
26      align-items: center;
27  }
28
29  .container-box img {
30      width: 190px;
31  }
32
33  .container-box h3 {
34      font-family: 'Irish Grover', cursive;
35  }
36
37      #button {
38          background-color: rgb(10, 110, 280);
39          color: ☐azure;
40          width: 350px;
41          padding: 15px;
42          border: none;
43          border-radius: 15px;
44          font-family: 'Irish Grover', cursive;
45      }
46
47      /* Absolute Center Spinner */
48      .loading {
49          position: fixed;
50          z-index: 999;
51          overflow: show;
52          margin: auto;
53          top: 0;
54          left: 0;
55          bottom: 0;
56          right: 0;
57          width: 50px;
58          height: 50px;
59      }
60
61      /* Transparent Overlay */
62      .loading:before {
63          content: '';
64          display: block;
65          position: fixed;
66          top: 0;
67          left: 0;
68          width: 100%;
69          height: 100%;
70          background-color: ☐rgba(255,255,255,0.5);
```

```css
70        background-color:  rgba(255,255,255,0.5);
71      }
72
73      /* :not(:required) hides these rules from IE9 and below */
74  v   .loading:not(:required) {
75        /* hide "loading..." text */
76        font: 0/0 a;
77        color: transparent;
78        text-shadow: none;
79        background-color: transparent;
80        border: 0;
81      }
82
83  v   .loading:not(:required):after {
84        content: '';
85        display: block;
86        font-size: 10px;
87        width: 50px;
88        height: 50px;
89        margin-top: -0.5em;
90        border: 12px solid  rgba(33, 150, 243, 1.0);
91        border-radius: 100%;
92        border-bottom-color: transparent;
93        -webkit-animation: spinner 1s linear 0s infinite;
94        animation: spinner 1s linear 0s infinite;
95      }
96
```

Exercise01 > ⬛ style.css > ...

```css
97        /* Animation */
98
99  v   @-webkit-keyframes spinner {
100 v     0% {
101         -webkit-transform: rotate(0deg);
102         -moz-transform: rotate(0deg);
103         -ms-transform: rotate(0deg);
104         -o-transform: rotate(0deg);
105         transform: rotate(0deg);
106       }
107 v     100% {
108         -webkit-transform: rotate(360deg);
109         -moz-transform: rotate(360deg);
110         -ms-transform: rotate(360deg);
111         -o-transform: rotate(360deg);
112         transform: rotate(360deg);
113       }
114     }
115 v   @-moz-keyframes spinner {
116 v     0% {
117         -webkit-transform: rotate(0deg);
118         -moz-transform: rotate(0deg);
119         -ms-transform: rotate(0deg);
120         -o-transform: rotate(0deg);
121         transform: rotate(0deg);
122       }
123 v     100% {
124         -webkit-transform: rotate(360deg);
125         -moz-transform: rotate(360deg);
126         -ms-transform: rotate(360deg);
127         -o-transform: rotate(360deg);
128         transform: rotate(360deg);
129       }
130     }
```

```css
    @-o-keyframes spinner {
      0% {
        -webkit-transform: rotate(0deg);
        -moz-transform: rotate(0deg);
        -ms-transform: rotate(0deg);
        -o-transform: rotate(0deg);
        transform: rotate(0deg);
      }
      100% {
        -webkit-transform: rotate(360deg);
        -moz-transform: rotate(360deg);
        -ms-transform: rotate(360deg);
        -o-transform: rotate(360deg);
        transform: rotate(360deg);
      }
    }
    @keyframes spinner {
      0% {
        -webkit-transform: rotate(0deg);
        -moz-transform: rotate(0deg);
        -ms-transform: rotate(0deg);
        -o-transform: rotate(0deg);
        transform: rotate(0deg);
      }
      100% {
        -webkit-transform: rotate(360deg);
        -moz-transform: rotate(360deg);
        -ms-transform: rotate(360deg);
        -o-transform: rotate(360deg);
        transform: rotate(360deg);
      }
    }
```

```css
    .activity {
        margin: 30px 0px;
        width: 600px;
        height: 300px;
        overflow-x: auto;
        border: 3px solid ▢rgb(205, 199, 199);
        background-color: ▢rgb(216, 223, 231);
        border-radius: 10px;
    }

    .load .title .edit i{
        width: 25px;
        height: 25px;
        color: ▢rgb(13, 108, 241);
        margin-top: 6px;
        margin-right: 12px;
    }

    .title {
        padding-left: 70px;
        text-align: center;
        font-size: medium;
    }

    .edit {
        display: ▦ flex;
        align-items: center;
        padding: 17px;
        height: 25px;
    }
```

- app.js

```javascript
let loading = document.getElementById('loading');
loading.hidden = true;
  function loadActivity(){
    loading.hidden = false;
    let toLoad = document.getElementById('toLoad');
    let load = document.getElementById('load');
    let display = document.getElementById('display');
    toLoad.hidden = false;
    load.hidden = true;
    fetch('https://www.boredapi.com/api/activity')
    .then(async (response) =>{
    toLoad.hidden = true;
    load.hidden = false;
    let data = await response.json();
    load.innerHTML = `
    <h4>${data["activity"]}</h4>
        <div class="title">
            <div class="edit">
                <i class="fa-solid fa-tag"></i>
                    <p>Type: ${data['type']}</p>
            </div>
            <div class="edit">
                <i class="fa-solid fa-users"></i>
                <p>Participants: ${data['participants']}</p>
            </div>
            <div class="edit">
             <i class="fa-solid fa-dollar-sign"></i>
                <p>Price: ${data['price']}$</p>
            </div>
             <div class="edit">
               <i class="fa-solid fa-link"></i>
                    <p>Link: <a href="${data['link']}">${data['link']}</a></p>
                    </div>
                </div>
        `
    });
    }
```

- Result for Ex1:

Ex2: Gender Guessing

- index.html

```html
Exercise02 > index.html > html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Ex2 Gender Guessing</title>
8       <link rel="stylesheet" href="./style.css">
9   </head>
10  <body>
11      <div class="box">
12          <img src="./img/thinking-emoji.gif" alt="">
13          <h3>I Know you <span>Gender</span></h3>
14          <div class="inputForm">
15              <input id="name" type="text" placeholder="Tell me your name">
16              <button onclick="GenderGuessing()" >Guess</button>
17          </div>
18          <div id="display">
19              <div id="loading">Loading...</div>
20              <div id="show">
21              </div>
22          </div>
23      </div>
24
25      <script src="./guess.js"></script>
26  </body>
27  </html>
```

- style.css

```css
Exercise02 > style.css > body
1   @import url('https://fonts.googleapis.com');
2   @import url('https://fonts.gstatic.com');
3   @import url('https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap');
4
5   *{
6       margin:  0px;
7       padding: 0px;
8       box-sizing: border-box;
9   }
10
11  body{
12      display: flex;
13      height: 700px;
14      width: auto;
15      justify-content: center;
16      align-items: center;
17  }
18  .box{
19      display: flex;
20      flex-direction: column;
21      border: 4px solid black;
22      align-items: center;
23      width: 600px;
24      height: 400px;
25      text-align: center;
26  }
27  .box img{
28      margin-top: 50px;
29      margin-bottom: -10px;
30      width: 60px;
31  }
32  .box h3{
33      font-family: 'Irish Grover', cursive;
34      font-size: larger;
35  }
```

```css
36    .box span{
37        color: rgb(20, 49, 194);
38    }
39    .inputForm{
40        display: flex;
41        justify-content: center;
42    }
43    .inputForm input{
44        margin-right: 12px;
45        padding: 10px;
46        border: 1px solid black;
47        border-radius: 5px;
48    }
49    .inputForm input::placeholder{
50        font-size: 15px;
51    }
52    .inputForm button{
53        font-size: 20px;
54        border-radius: 5px;
55        color: rgb(252, 250, 250);
56        background-color: rgb(22, 74, 197);
57        border: none;
58    }
```

Exercise02 > 🎨 style.css > 🔧 .box h3

```css
57      border: none;
58    }
59    #display{
60        border: 1px solid black;
61        width: 350px;
62        height: 150px;
63        margin-top: 10px;
64        border-radius: 5px;
65        background-color: rgb(227, 233, 237);
66    }
67    #display #loading{
68        padding-top: 70px;
69        font-size: 15px;
70    }
71    #display #show h5{
72        margin-top: 5px;
73    }
74    #display #show span{
75       color: rgb(241, 167, 28);
76        text-transform: capitalize;
77    }
78    #display #show p{
79        color: rgb(18, 96, 240);
80        font-family: 'Irish Grover', cursive;
81        font-size: large;
82    }
83
84
```
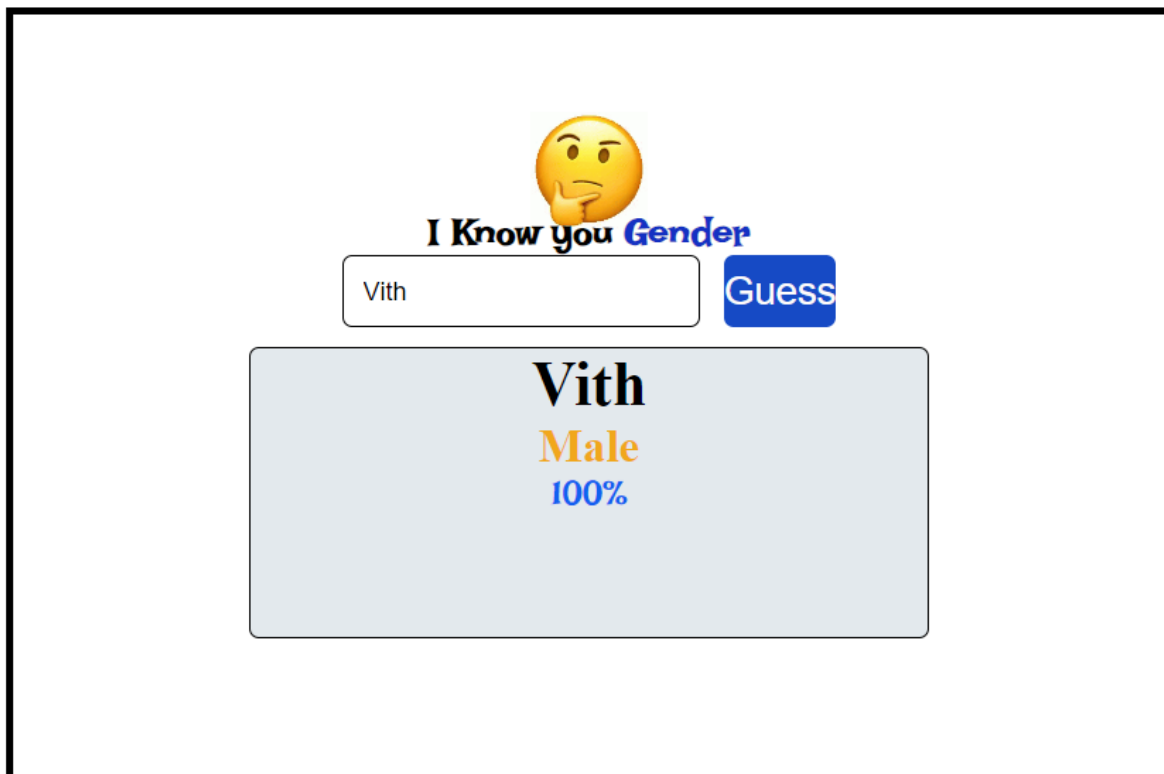
- guess.js

```js
1    let display = document.getElementById('display');
2    display.hidden = true;
3
4    function GenderGuessing(){
5        let loading = document.getElementById('loading');
6        let show = document.getElementById('show');
7        let name = document.getElementById('name');
8        display.hidden = false;
9        show.hidden = true;
10
11       fetch(`https://api.genderize.io/?name=${name.value}`)
12           .then( async(response)=>{
13               loading.hidden = true;
14               show.hidden = false;
15               let data = await response.json();
16               show.innerHTML = `
17                   <h1>${data["name"]}</h5>
18                   <h2><span>${data["gender"]}</span></h2>
19                   <p>${data["probability"]*100}%</p>
20               `
21           });
22   }
```

- Result of Ex2:

Ex3: Nationality Guessing

- index.html

```
Exercise03 > 🔲 index.html > 🔷 html > 🔷 body
  1    <!DOCTYPE html>
  2    <html lang="en">
  3    <head>
  4        <meta charset="UTF-8">
  5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
  6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  7        <title>Ex3 Nationality Guessing</title>
  8        <link rel="stylesheet" href="./style.css">
  9    </head>
 10
 11    <body>
 12        <div class="wrapper">
 13            <div style="font-size: 5rem;">
 14                <img src="./img/planet-earth.png" alt="">
 15            </div>
 16            <div>I know your <span style="color:■hsl(224, 92%, 49%)">Home</span></div>
 17            <div>
 18                <input type="text" id="name" placeholder=" Tell me your first name">
 19                <button onclick="guestHome()">Guess</button>
 20            </div>
 21
 22            <div id="loading">Loading...</div>
 23            <div id="guess-home">
 24
 25            </div>
 26        </div>
 27        <script src="./script.js"></script>
 28
 29    </body>
 30
 31    </html>
```

Exercise03 > 🗲 style.css > 🔧 .wrapper>:nth-child(3)

```css
1   @import url('https://fonts.googleapis.com');
2   @import url('https://fonts.gstatic.com');
3   @import url('https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap');
4
5
6   *{
7       margin: 0px;
8       padding: 0px;
9       box-sizing: border-box;
10  }
11
12  body {
13      margin: 50px;
14      padding: 50px;
15      display: flex;
16      justify-content: center;
17  }
18
19  .wrapper {
20      width: 800px;
21      height: 500px;
22      padding: 2rem;
23      border: 5px solid black;
24      display: flex;
25      flex-direction: column;
26      justify-content: center;
27      align-items: center;
28
29      overflow: auto;
30  }
31
32  .wrapper>:nth-child(1) {
33      height: 50%;
34  }
35
36      .wrapper>:nth-child(2) {
37          height: 18%;
38          font-family: Irish Grover;
39          font-size: 2rem;
40      }
41
42      .wrapper>:nth-child(3) {
43          height: 15%;
44          display: flex;
45          justify-content: center;
46          align-items: center;
47          column-gap: 1rem;
48      }
49      .wrapper>:nth-child(3) input {
50          height: 80%;
51          border: 1px solid #d5d5d5e1;
52          border-radius: 7px;
53      }
54
55      img {
56          height: 8rem;
57      }
58
59      input {
60          text-align: center;
61          justify-content: center;
62      }
63      input:focus::placeholder {
64          color: transparent ;
65      }
66
67
```

```css
67
68    .wrapper>:nth-child(3) button {
69      width: fit-content;
70      padding: 0.5rem;
71      padding-left: 1rem;
72      padding-right: 1rem;
73      border-radius: 6px;
74      border: none;
75      background-color: ◼hsl(220, 100%, 55%);
76      color: ◻white;
77      font-weight: bold;
78    }
79
80    .wrapper>:nth-child(3) button:active {
81      background-color: ◼hsl(27, 75%, 50%);
82      color: ◼hsl(220, 100%, 55%);
83      cursor: pointer;
84    }
85
86    .wrapper>:nth-child(3) button:hover {
87      cursor: pointer;
88    }
89
90    #guess-home {
91      height: 100%;
92      width: 20rem;
93      min-width: 10rem;
94      border-radius: 5px;
95      font-family: sans-serif;
96      display: ▦flex;
97      flex-direction: column;
98      row-gap: 5%;
99
100   }
101
```

```css
100    }

101

102    #guess-home>*{
103      width: calc(100% - 1rem);
104      background-color: #e8e7e7;
105      border-radius: 10px;
106      border: 1px solid rgb(111, 111, 111);
107      padding: 0.5rem;
108      display: flex;
109      justify-content: space-between;
110    }

111

112    #guess-home>*>:first-child{
113      font-weight: bold;
114    }
115    #guess-home>*>:last-child{
116      font-weight: bold;
117      color: hsl(32, 87%, 50%);
118    }

119

120

121    .noData{
122      height: fit-content;
123      color: hsl(300, 100%, 35%);
124      font-size: 7rem;
125      background-color: white;
126

127    }

128

129    .center{
130      width: 100%;
131      height: 100%;
132      display: flex;
133      justify-content: center;
134      align-items: center;
135    }
```
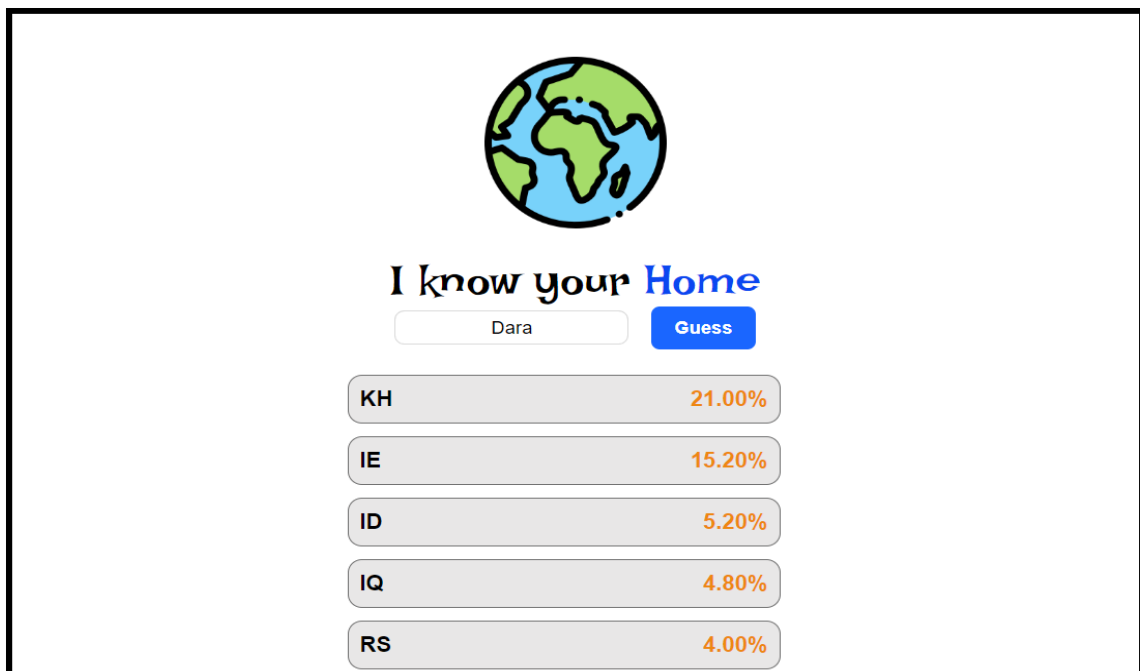
- script.js

```javascript
const home = document.getElementById("guess-home");
const name = document.getElementById("name");
const loading=document.getElementById("loading");
loading.style.visibility="hidden";
function guestHome() {
    if(noData()) return;
    home.innerHTML="";
    loading.style.visibility="visible";
    fetch(`https://api.nationalize.io/?name=${name.value}`).then(async (res) => {

        let data = await res.json();

        let obj=data.country;

        if(nullCountry(obj)) return;
        home.innerHTML="";
        for(let n of obj){
            home.innerHTML+=`<div>
            <div>${n.country_id}</div>
            <div>${(n.probability*100).toFixed(2)}%</div>
            </div>`
        }

    }).then(()=>{
        loading.style.visibility="hidden"
    }).catch(()=>{
        home.innerHTML=` <div>
        <div class="center">
        <div class="noData ">Null</div>
        </div>
        </div>`
        loading.style.visibility="hidden"
    })

}

    function noData(){
        if(name.value==""){
            home.innerHTML=` <div>
            <div class="center">
            <div class="noData ">Null</div>
            </div>
            </div>`
            return true;
        }
        return false;
    }

    function nullCountry(obj){
        if(obj==undefined) return false;
        if(obj.length==0){
            home.innerHTML=` <div>
            <div class="center">
            <div class="noData">X</div>
            </div>
            </div>`
            return true;
        }
        return false;
    }
```

```
37    function noData(){
38        if(name.value==""){
39            home.innerHTML=` <div>
40            <div class="center">
41            <div class="noData ">Null</div>
42            </div>
43            </div>`
44            return true;
45        }
46        return false;
47    }
48
49    function nullCountry(obj){
50        if(obj==undefined) return false;
51        if(obj.length==0){
52            home.innerHTML=` <div>
53            <div class="center">
54            <div class="noData">X</div>
55            </div>
56            </div>`
57            return true;
58        }
59        return false;
60    }
```

- Result of Ex3:

Ex4: University List

-index.html

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Ex4</title>
8
9       <link rel="preconnect" href="https://fonts.googleapis.com">
10      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
11      <link href="https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap" rel="stylesheet">
12      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.3.0/css/all.min.css"/>
13      <link rel="stylesheet" href="./style.css">
14
15  </head>
16  <body>
17      <div class="box">
18          <img src="./img/univerisity.png" alt="university">
19          <h3>Which Univ. do you want to study?</h3>
20          <select name="country" id="country" onchange="fetchData()">
21              <option selected disabled>Choose a country</option>
22              <option value="Afghanistan">Afghanistan</option>
23                  <option value="Aland Islands">Åland Islands</option>
24                  <option value="Albania">Albania</option>
25                  <option value="Algeria">Algeria</option>
26                  <option value="American Samoa">American Samoa</option>
27                  <option value="Andorra">Andorra</option>
28                  <option value="Angola">Angola</option>
29                  <option value="Anguilla">Anguilla</option>
30                  <option value="Antarctica">Antarctica</option>
31                  <option value="Antigua and Barbuda">Antigua & Barbuda</option>
32                  <option value="Argentina">Argentina</option>
33                  <option value="Armenia">Armenia</option>
34                  <option value="Aruba">Aruba</option>
35                  <option value="Australia">Australia</option>
36                  <option value="Austria">Austria</option>
37                  <option value="Azerbaijan">Azerbaijan</option>
```

```html
37                  <option value="Azerbaijan">Azerbaijan</option>
38                  <option value="Bahamas">Bahamas</option>
39                  <option value="Bahrain">Bahrain</option>
40                  <option value="Bangladesh">Bangladesh</option>
41                  <option value="Barbados">Barbados</option>
42                  <option value="Belarus">Belarus</option>
43                  <option value="Belgium">Belgium</option>
44                  <option value="Belize">Belize</option>
45                  <option value="Benin">Benin</option>
46                  <option value="Bermuda">Bermuda</option>
47                  <option value="Bhutan">Bhutan</option>
48                  <option value="Bolivia">Bolivia</option>
49                  <option value="Bonaire, Sint Eustatius and Saba">Caribbean Netherlands</option>
50                  <option value="Bosnia and Herzegovina">Bosnia & Herzegovina</option>
51                  <option value="Botswana">Botswana</option>
52                  <option value="Bouvet Island">Bouvet Island</option>
53                  <option value="Brazil">Brazil</option>
54                  <option value="British Indian Ocean Territory">British Indian Ocean Territory</option>
55                  <option value="Brunei Darussalam">Brunei</option>
56                  <option value="Bulgaria">Bulgaria</option>
57                  <option value="Burkina Faso">Burkina Faso</option>
58                  <option value="Burundi">Burundi</option>
59                  <option value="Cambodia">Cambodia</option>
60                  <option value="Cameroon">Cameroon</option>
61                  <option value="Canada">Canada</option>
62                  <option value="Cape Verde">Cape Verde</option>
63                  <option value="Cayman Islands">Cayman Islands</option>
64                  <option value="Central African Republic">Central African Republic</option>
65                  <option value="Chad">Chad</option>
66                  <option value="Chile">Chile</option>
67                  <option value="China">China</option>
68                  <option value="Christmas Island">Christmas Island</option>
69                  <option value="Cocos (Keeling) Islands">Cocos (Keeling) Islands</option>
70                  <option value="Colombia">Colombia</option>
71                  <option value="Comoros">Comoros</option>
72                  <option value="Congo">Congo - Brazzaville</option>
73                  <option value="Congo, Democratic Republic of the Congo">Congo - Kinshasa</option>
74                  <option value="Cook Islands">Cook Islands</option>
```

```
67        <option value="China">China</option>
68        <option value="Christmas Island">Christmas Island</option>
69        <option value="Cocos (Keeling) Islands">Cocos (Keeling) Islands</option>
70        <option value="Colombia">Colombia</option>
71        <option value="Comoros">Comoros</option>
72        <option value="Congo">Congo - Brazzaville</option>
73        <option value="Congo, Democratic Republic of the Congo">Congo - Kinshasa</option>
74        <option value="Cook Islands">Cook Islands</option>
75        <option value="Costa Rica">Costa Rica</option>
76        <option value="Cote D'Ivoire">Côte d'Ivoire</option>
77        <option value="Croatia">Croatia</option>
78        <option value="Cuba">Cuba</option>
79        <option value="Curacao">Curaçao</option>
80        <option value="Cyprus">Cyprus</option>
81        <option value="Czech Republic">Czechia</option>
82        <option value="Denmark">Denmark</option>
83        <option value="Djibouti">Djibouti</option>
84        <option value="Dominica">Dominica</option>
85        <option value="Dominican Republic">Dominican Republic</option>
86        <option value="Ecuador">Ecuador</option>
87        <option value="Egypt">Egypt</option>
88        <option value="El Salvador">El Salvador</option>
89        <option value="Equatorial Guinea">Equatorial Guinea</option>
90        <option value="Eritrea">Eritrea</option>
91        <option value="Estonia">Estonia</option>
92        <option value="Ethiopia">Ethiopia</option>
93        <option value="Falkland Islands (Malvinas)">Falkland Islands (Islas Malvinas)</option>
94        <option value="Faroe Islands">Faroe Islands</option>
95        <option value="Fiji">Fiji</option>
96        <option value="Finland">Finland</option>
97        <option value="France">France</option>
98        <option value="French Guiana">French Guiana</option>
99        <option value="French Polynesia">French Polynesia</option>
100       <option value="French Southern Territories">French Southern Territories</option>
101       <option value="Gabon">Gabon</option>
102       <option value="Gambia">Gambia</option>
103       <option value="Georgia">Georgia</option>
```

```
100       <option value="French Southern Territories">French Southern Territories</option>
101       <option value="Gabon">Gabon</option>
102       <option value="Gambia">Gambia</option>
103       <option value="Georgia">Georgia</option>
104       <option value="Germany">Germany</option>
105       <option value="Ghana">Ghana</option>
106       <option value="Gibraltar">Gibraltar</option>
107       <option value="Greece">Greece</option>
108       <option value="Greenland">Greenland</option>
109       <option value="Grenada">Grenada</option>
110       <option value="Guadeloupe">Guadeloupe</option>
111       <option value="Guam">Guam</option>
112       <option value="Guatemala">Guatemala</option>
113       <option value="Guernsey">Guernsey</option>
114       <option value="Guinea">Guinea</option>
115       <option value="Guinea-Bissau">Guinea-Bissau</option>
116       <option value="Guyana">Guyana</option>
117       <option value="Haiti">Haiti</option>
118       <option value="Heard Island and Mcdonald Islands">Heard & McDonald Islands</option>
119       <option value="Holy See (Vatican City State)">Vatican City</option>
120       <option value="Honduras">Honduras</option>
121       <option value="Hong Kong">Hong Kong</option>
122       <option value="Hungary">Hungary</option>
123       <option value="Iceland">Iceland</option>
124       <option value="India">India</option>
125       <option value="Indonesia">Indonesia</option>
126       <option value="Iran, Islamic Republic of">Iran</option>
127       <option value="Iraq">Iraq</option>
128       <option value="Ireland">Ireland</option>
129       <option value="Isle of Man">Isle of Man</option>
130       <option value="Israel">Israel</option>
131       <option value="Italy">Italy</option>
132       <option value="Jamaica">Jamaica</option>
133       <option value="Japan">Japan</option>
134       <option value="Jersey">Jersey</option>
135       <option value="Jordan">Jordan</option>
136       <option value="Kazakhstan">Kazakhstan</option>
```

```
137          <option value="Kenya">Kenya</option>
138          <option value="Kiribati">Kiribati</option>
139          <option value="Korea, Democratic People's Republic of">North Korea</option>
140          <option value="Korea, Republic of">South Korea</option>
141          <option value="Kosovo">Kosovo</option>
142          <option value="Kuwait">Kuwait</option>
143          <option value="Kyrgyzstan">Kyrgyzstan</option>
144          <option value="Lao People's Democratic Republic">Laos</option>
145          <option value="Latvia">Latvia</option>
146          <option value="Lebanon">Lebanon</option>
147          <option value="Lesotho">Lesotho</option>
148          <option value="Liberia">Liberia</option>
149          <option value="Libyan Arab Jamahiriya">Libya</option>
150          <option value="Liechtenstein">Liechtenstein</option>
151          <option value="Lithuania">Lithuania</option>
152          <option value="Luxembourg">Luxembourg</option>
153          <option value="Macao">Macao</option>
154          <option value="Macedonia, the Former Yugoslav Republic of">North Macedonia</option>
155          <option value="Madagascar">Madagascar</option>
156          <option value="Malawi">Malawi</option>
157          <option value="Malaysia">Malaysia</option>
158          <option value="Maldives">Maldives</option>
159          <option value="Mali">Mali</option>
160          <option value="Malta">Malta</option>
161          <option value="Marshall Islands">Marshall Islands</option>
162          <option value="Martinique">Martinique</option>
163          <option value="Mauritania">Mauritania</option>
164          <option value="Mauritius">Mauritius</option>
165          <option value="Mayotte">Mayotte</option>
166          <option value="Mexico">Mexico</option>
167          <option value="Micronesia, Federated States of">Micronesia</option>
168          <option value="Moldova, Republic of">Moldova</option>
169          <option value="Monaco">Monaco</option>
170          <option value="Mongolia">Mongolia</option>
171          <option value="Montenegro">Montenegro</option>
172          <option value="Montserrat">Montserrat</option>
173          <option value="Morocco">Morocco</option>
```

```
173          <option value="Morocco">Morocco</option>
174          <option value="Mozambique">Mozambique</option>
175          <option value="Myanmar">Myanmar (Burma)</option>
176          <option value="Namibia">Namibia</option>
177          <option value="Nauru">Nauru</option>
178          <option value="Nepal">Nepal</option>
179          <option value="Netherlands">Netherlands</option>
180          <option value="Netherlands Antilles">Curaçao</option>
181          <option value="New Caledonia">New Caledonia</option>
182          <option value="New Zealand">New Zealand</option>
183          <option value="Nicaragua">Nicaragua</option>
184          <option value="Niger">Niger</option>
185          <option value="Nigeria">Nigeria</option>
186          <option value="Niue">Niue</option>
187          <option value="Norfolk Island">Norfolk Island</option>
188          <option value="Northern Mariana Islands">Northern Mariana Islands</option>
189          <option value="Norway">Norway</option>
190          <option value="Oman">Oman</option>
191          <option value="Pakistan">Pakistan</option>
192          <option value="Palau">Palau</option>
193          <option value="Palestinian Territory, Occupied">Palestine</option>
194          <option value="Panama">Panama</option>
195          <option value="Papua New Guinea">Papua New Guinea</option>
196          <option value="Paraguay">Paraguay</option>
197          <option value="Peru">Peru</option>
198          <option value="Philippines">Philippines</option>
199          <option value="Pitcairn">Pitcairn Islands</option>
200          <option value="Poland">Poland</option>
201          <option value="Portugal">Portugal</option>
202          <option value="Puerto Rico">Puerto Rico</option>
203          <option value="Qatar">Qatar</option>
204          <option value="Reunion">Réunion</option>
205          <option value="Romania">Romania</option>
206          <option value="Russian Federation">Russia</option>
207          <option value="Rwanda">Rwanda</option>
208          <option value="Saint Barthelemy">St. Barthélemy</option>
209          <option value="Saint Helena">St. Helena</option>
```

```html
210              <option value="Saint Kitts and Nevis">St. Kitts & Nevis</option>
211              <option value="Saint Lucia">St. Lucia</option>
212              <option value="Saint Martin">St. Martin</option>
213              <option value="Saint Pierre and Miquelon">St. Pierre & Miquelon</option>
214              <option value="Saint Vincent and the Grenadines">St. Vincent & Grenadines</option>
215              <option value="Samoa">Samoa</option>
216              <option value="San Marino">San Marino</option>
217              <option value="Sao Tome and Principe">São Tomé & Príncipe</option>
218              <option value="Saudi Arabia">Saudi Arabia</option>
219              <option value="Senegal">Senegal</option>
220              <option value="Serbia">Serbia</option>
221              <option value="Serbia and Montenegro">Serbia</option>
222              <option value="Seychelles">Seychelles</option>
223              <option value="Sierra Leone">Sierra Leone</option>
224              <option value="Singapore">Singapore</option>
225              <option value="Sint Maarten">Sint Maarten</option>
226              <option value="Slovakia">Slovakia</option>
227              <option value="Slovenia">Slovenia</option>
228              <option value="Solomon Islands">Solomon Islands</option>
229              <option value="Somalia">Somalia</option>
230              <option value="South Africa">South Africa</option>
231              <option value="South Georgia and the South Sandwich Islands">South Georgia & South Sandwich Islands</option>
232              <option value="South Sudan">South Sudan</option>
233              <option value="Spain">Spain</option>
234              <option value="Sri Lanka">Sri Lanka</option>
235              <option value="Sudan">Sudan</option>
236              <option value="Suriname">Suriname</option>
237              <option value="Svalbard and Jan Mayen">Svalbard & Jan Mayen</option>
238              <option value="Swaziland">Eswatini</option>
239              <option value="Sweden">Sweden</option>
240              <option value="Switzerland">Switzerland</option>
241              <option value="Syrian Arab Republic">Syria</option>
242              <option value="Taiwan, Province of China">Taiwan</option>
243              <option value="Tajikistan">Tajikistan</option>
244              <option value="Tanzania, United Republic of">Tanzania</option>
245              <option value="Thailand">Thailand</option>
246              <option value="Timor-Leste">Timor-Leste</option>
```

```html
246              <option value="Timor-Leste">Timor-Leste</option>
247              <option value="Togo">Togo</option>
248              <option value="Tokelau">Tokelau</option>
249              <option value="Tonga">Tonga</option>
250              <option value="Trinidad and Tobago">Trinidad & Tobago</option>
251              <option value="Tunisia">Tunisia</option>
252              <option value="Turkey">Turkey</option>
253              <option value="Turkmenistan">Turkmenistan</option>
254              <option value="Turks and Caicos Islands">Turks & Caicos Islands</option>
255              <option value="Tuvalu">Tuvalu</option>
256              <option value="Uganda">Uganda</option>
257              <option value="Ukraine">Ukraine</option>
258              <option value="United Arab Emirates">United Arab Emirates</option>
259              <option value="United Kingdom">United Kingdom</option>
260              <option value="United States">United States</option>
261              <option value="United States Minor Outlying Islands">U.S. Outlying Islands</option>
262              <option value="Uruguay">Uruguay</option>
263              <option value="Uzbekistan">Uzbekistan</option>
264              <option value="Vanuatu">Vanuatu</option>
265              <option value="Venezuela">Venezuela</option>
266              <option value="Viet Nam">Vietnam</option>
267              <option value="Virgin Islands, British">British Virgin Islands</option>
268              <option value="Virgin Islands, U.s.">U.S. Virgin Islands</option>
269              <option value="Wallis and Futuna">Wallis & Futuna</option>
270              <option value="Western Sahara">Western Sahara</option>
271              <option value="Yemen">Yemen</option>
272              <option value="Zambia">Zambia</option>
273              <option value="Zimbabwe">Zimbabwe</option>
274          </select>
275
276          <div id="display">
277              <div id="loading">
278                  Loading...
279              </div>
280
281              <div id="listing">
282                  <div id="show"></div>
283              </div>
284
285          </div>
286      </div>
287
288      <script src="./app.js"></script>
289  </body>
290  </html>
```
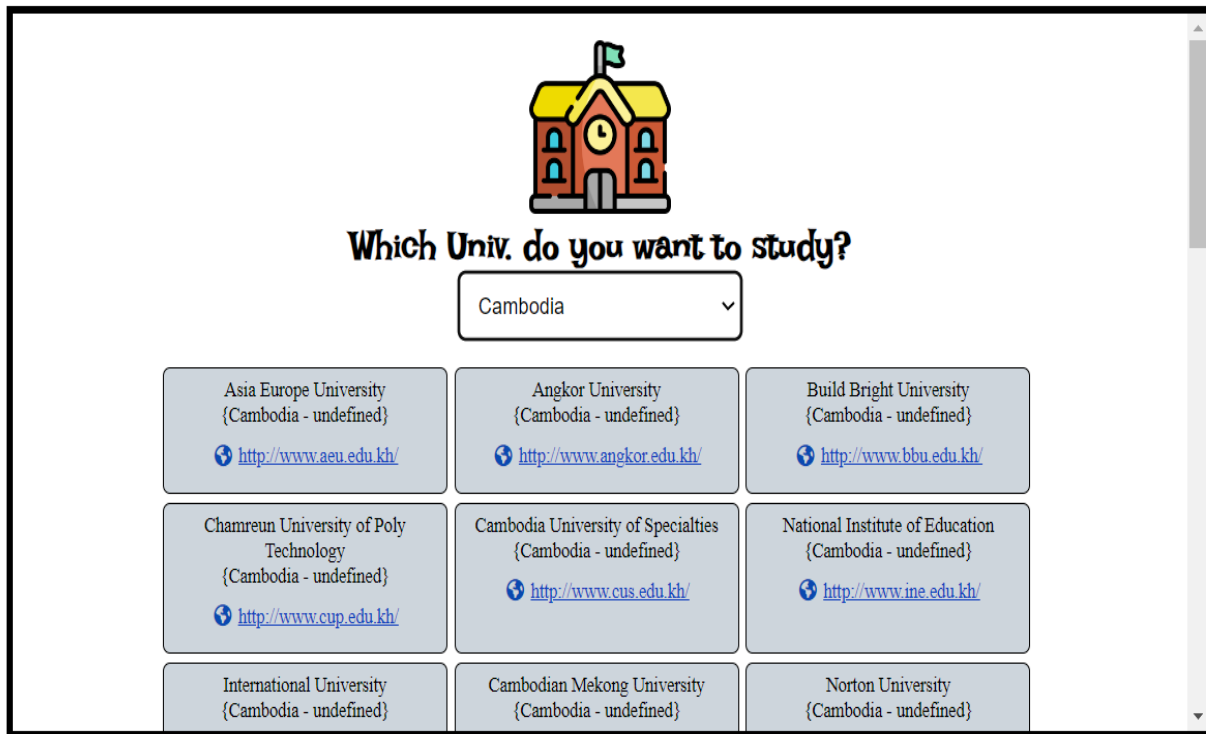
- style.css

```css
 1
 2   *{
 3       margin: 0;
 4       padding: 0;
 5       box-sizing: border-box;
 6   }
 7
 8   body{
 9       display: ▦ flex;
10       height: 100vh;
11       justify-content: center;
12       align-items: center;
13   }
14   .box{
15       flex-direction: column;
16       width: 850px;
17       height: 420px;
18       overflow-x: auto;
19       border: 5px solid □black;
20       text-align: center;
21   }
22   .box img{
23       margin-top: 15px;
24       width: 100px;
25   }
26   .box h3{
27       font-size: 23px;
28       font-family: 'Irish Grover', cursive;
29   }
30   .box select{
31       padding: 0px 10px;
32       width: 200px;
33       height: 40px;
34       border-radius: 5px;
35   }
36   #display{
37       width: 625px;
38       height: 160px;
39       margin: 10px auto;
40       border: 1px solid □black;
41       border-radius: 10px;
42       background-color: ▨aliceblue;
43   }
```

```css
41      border-radius: 10px;
42      background-color: ▢aliceblue;
43    }
44    #loading{
45      padding-top: 65px;
46      font-size: 30px;
47    }
48    #show{
49      display: ▦flex;
50      flex-wrap: wrap;
51    }
52    .university{
53      margin-top: 5px;
54      margin-left: 5px;
55      width: 200px;
56      padding: 5px 0px;
57      font-size: 12px;
58      border: 1px solid ▢black;
59      border-radius: 5px;
60      background-color: ▢rgba(173, 186, 197, 0.607);
61    }
62    .link{
63      display: ▦flex;
64      justify-content: center;
65      align-items: center;
66    }
67    .link i{
68      margin: 10px 2px;
69      margin-right: 5px;
70      color: ▢rgb(9, 73, 176);
71
72    }
73    .link a{
74      color: ▢rgb(22, 67, 190);
75    }
```

- app.js

```javascript
1   let display = document.getElementById('display');
2         display.hidden = true;
3       function fetchData() {
4           display.hidden = false;
5           display.style.background = "aliceblue";
6           display.style.border = "1px solid black";
7           let loading = document.getElementById('loading');
8           let listing = document.getElementById('listing');
9
10          loading.hidden = false;
11          listing.hidden = true;
12          let countrySelect = document.getElementById('country');
13          console.log(countrySelect.value);
14
15          fetch(`http://universities.hipolabs.com/search?country=${countrySelect.value}`)
16              .then(async(result) => {
17                  let show = document.getElementById('show');
18                  loading.hidden = true;
19                  listing.hidden = false;
20                  display.style.background = "white";
21                  display.style.border = "none";
22
23                  let data = await result.json();
24
25                  // display each data by its index
26                  for(let x of data) {
27                      console.log(x.domains);
28                      show.innerHTML += `
29                          <div class="university">
30                              <span>${x.name}</span>
31                              <br>
32                              <span>${x.country} - ${x.apha_two_code}</span>
33                              <br>
34                              <div class="link">
35                                  <i class="fa-solid fa-earth-americas"></i>
36                                  <a href="${x.web_pages[0]}">
37                                      ${x.web_pages[0]}
38                                  </a>
39                              </div>
40                          </div>
41
42                      `;
43                  }
44                  console.log(data[0].domains);
45              })
46              .catch((error) => {
47
48                  loading.hidden = true;
49                  listing.hidden = true;
50
51                  console.log("Error: "+error);
52              })
53      }
```

- Result of Ex4

Fetch Data from API for book App

Ex5: Book Store

- index.html

```html
Exercise05 > index.html > html > body
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="IE=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <link rel="shortcut icon" href="./img/book.png" type="image/x-icon">
9      <title>Ex05 Book Shop Crud</title>
10     <link rel="stylesheet" href="./style.css">
11 </head>
12
13 <body>
14     <div class="loading">
15         <div class="loader"></div>
16     </div>
17     <div class="container">
18         <form autocomplete="off" onsubmit="onFormSubmit()">
19             <div class="add">
20                 <div class="header-add">Add new book here!</div>
21
22                 <label for="name_book">Name</label>
23                 <input type="text" name="name" id="name_book" placeholder="c programming" onclick="if(this.placeholder == 'c programming') {this.placeholder = ''}"
24                 onBlur="if(this.placeholder == '') {this.placeholder = 'c programming'}" />
25                 <label for="category_book">Category</label>
26                 <input type="text" name="category" id="category_book" placeholder="coding" onclick="if(this.placeholder == 'coding') {this.placeholder = ''}"
27                 onBlur="if(this.placeholder == '') {this.placeholder = 'coding'}" />
28                 <label for="price_book">Price</label>
29                 <input type="text" name="price_book" id="price_book" placeholder="1000 riels" onclick="if(this.placeholder == '1000 riels') {this.placeholder = ''}"
30                 onBlur="if(this.placeholder == '') {this.placeholder = '1000 riels'}" />
31
32                 <button type="submit" class="add_book">Add</button>
33                 <button type="submit" class="edit_book">update</button>
34
35             </div>
36         </form>
37         <div class="home" id="add_items">
38             <div class="book-info">List Book</div>
39         </div>
40
41         <script src="./book.js"></script>
42     </div>
43 </body>
44 </html>
```

- fetchapi-detail.html

```html
1    <!DOCTYPE html>
2    <html lang="en">
3
4    <head>
5        <meta charset="UTF-8">
6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
8        <title>Book Details</title>
9        <link rel="stylesheet" href="./api-book.css">
10   </head>
11
12   <body>
13       <div class="items"></div>
14       <script src="./book-api.js"></script>
15   </body>
16
17   </html>
```

- style.css

```css
1    * {
2        margin: 0px;
3        padding: 0px;
4        box-sizing: border-box;
5    }
6
7    body {
8        background-color: #aaa;
9    }
10
11   .container {
12       display: flex;
13       justify-content: center;
14   }
15
16   .add {
17       height: 93vh;
18       width: 300px;
19       background-color: antiquewhite;
20       position: fixed;
21       padding: 15px;
22       border-radius: 10px;
23   }
24
25   .add>div {
26       text-align: center;
27       color: #ffffff;
28       background-color: rgb(147, 212, 116);
29       margin-bottom: 20px;
30       font-size: large;
31       padding-top: 10px;
32       height: 30px;
33       border-radius: 5px;
34   }
35
36   .add input[type=text] {
37       width: 100%;
38       border: 2px solid #aaa;
39       border-radius: 4px;
40       margin: 8px 0;
41       outline: none;
42       padding: 8px;
43       box-sizing: border-box;
44       transition: .3s;
45   }
```

```css
44          transition: .3s;
45      }
46
47 ∨  .add input[type=text]:focus {
48          border-color: ⬜dodgerBlue;
49          box-shadow: 0 0 8px 0 ⬜dodgerBlue;
50      }
51
52 ∨  .add .edit_book {
53          visibility: hidden;
54      }
55
56      .add_book,
57 ∨  .edit_book {
58          background-color: 🟩rgba(147, 196, 125, 1);
59          color: ⬜white;
60          border-style: outset;
61          border-color: ⬜#0066A2;
62          height: 25px;
63          width: 50px;
64          font: bold15px arial, sans-serif;
65          text-shadow: none;
66          height: 30px;
67          margin-top: 10px;
68          border-radius: 5px;
69      }
70
71 ∨  .edit_book {
72          background-color: 🟦rgb(61, 133, 198);
73      }
74
75 ∨  .home {
76          height: auto;
77          width: 800px;
78          top: 0px;
79          /* background-color: #fafafa; */
80          /* rgba(97, 105, 122, 0.5) */
81          display: 🔲flex;
82          flex-wrap: wrap;
83          margin-left: 350px;
84          border-radius: 10px;
85          background-color: ⬜#ffffff;
86      }
87
```

```css
 87
 88 ∨ .home .book-info {
 89        background-color: ▢rgba(147, 196, 125, 1);
 90        text-align: center;
 91        height: 35px;
 92        font-size: large;
 93        color: ▢#ffffff;
 94        position: sticky;
 95        width: 780px;
 96        margin: 10px 0 10px 10px;
 97        border-radius: 5px;
 98 }
 99
100 ∨ .home .items {
101        text-align: center;
102        width: 23%;
103        margin: 1%;
104        margin-left: 1%;
105        box-shadow: ▢rgba(15, 15, 15, 0.3) 0px 7px 29px 0px;
106        border-radius: 10px;
107 }
108
109 ∨ .items>img {
110        margin-top: 10px;
111        margin-bottom: 10px;
112 }
113
114    .items .name,
115    .price,
116 ∨ .category {
117        text-align: start;
118        margin-left: 10px;
119        padding-top: 10px;
120 }
121
122 ∨ .items>button {
123        text-align: start;
124 }
125
126 ∨ .button {
127        margin-top: 10px;
128        margin-bottom: 5px;
129 }
130
```

```css
     .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 {
         margin: 5px 0 15px 0;
         background-color: rgba(244, 67, 54, .9);
     }

     .btn>a {
         color: white;
         text-decoration: none;
     }

     @import url(https://fonts.googleapis.com/css?family=Roboto:100);
     @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 {
         to {
             -webkit-transform: rotate(360deg);
         }
     }
```

- api-book.css

```css
*{
    margin: 0px;
    padding: 0px;
    box-sizing: border-box;
}

body {
    padding: 10px;
    margin: 10px;
}

.container {
    height: 10rem;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-wrap: wrap;
    background-color: rgba(88, 90, 84, 0.8);
}

.container>div {
    width: 100%;
    text-align: center;
}

.home {
    margin: 2rem 0 0 0;
    display: flex;
    justify-content: center;
    flex-wrap: wrap;
}

.home>div {
    margin-bottom: 1rem;
    width: 100%;
    text-align: center;
}

.home>img {
    height: 100px;
}
```

-book.js

```javascript
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 more</a>` +
                    `</button>` +
                    `</div>`;
            }
            document.getElementById("add_items").innerHTML += output;
            setTimeout(() => {
                loading("false");
            }, 100)
```

```javascript
            }, 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}`
            };
```

```javascript
 87                 category: `${data.category_book}`
 88             };
 89             books[x] = book;
 90             localStorage.setItem('books', JSON.stringify(books));
 91             let databooks = getbooks();
 92
 93             document.getElementById("add_items").innerHTML +=
 94                 `<div class="items">` +
 95                 `<img src="./img/book.png" alt="#">` +
 96                 `<div class="name">Name : ${databooks[x].name}</div>` +
 97                 `<div class="price">Price : ${databooks[x].price} riels</div>` +
 98                 `<div class="category">Category : ${databooks[x].category}</div>` +
 99                 `<div class="button">` +
100                 `<button id="${parseInt(x)}" class="editBtn" onclick="editBook(this.id)">Edit</button>` +
101                 `<button id="${parseInt(x)}" class="deleteBtn" onclick="deleteBook(this.id)">Delete</button>` +
102                 `</div>` +
103                 `</div>`;
104         }
105
106         //Edit the data
107         function editBook(id) {
108             header.innerHTML = "Edit information here!";
109             header.style.backgroundColor = "rgb(61,133,198)";
110
111             let getdatabooks = getbooks();
112
113             selectedRow = id;
114             document.getElementsByClassName("edit_book")[0].style.visibility = 'visible';
115             document.getElementsByClassName("add_book")[0].style.visibility = 'hidden';
116
117             document.getElementById('name_book').value = getdatabooks[id].name;
118             document.getElementById('price_book').value = getdatabooks[id].price;
119             document.getElementById('category_book').value = getdatabooks[id].category;
120         }
121
122         function updateRecord(formData) {
123             document.getElementsByClassName("name")[selectedRow].innerHTML = "Name : " + formData.name_book;
124             document.getElementsByClassName("price")[selectedRow].innerHTML = "Price : " + formData.price_book + " riels";
125             document.getElementsByClassName("category")[selectedRow].innerHTML = "Category : " + formData.category_book;
126             document.getElementsByClassName("edit_book")[0].style.visibility = 'hidden';
127             document.getElementsByClassName("add_book")[0].style.visibility = 'visible';
128
```

```javascript
125             document.getElementsByClassName("category")[selectedRow].innerHTML = "Category : " + formData.category_book;
126             document.getElementsByClassName("edit_book")[0].style.visibility = 'hidden';
127             document.getElementsByClassName("add_book")[0].style.visibility = 'visible';
128
129             //get books from localstorage
130             let bookss = getbooks();
131             const bookUpdate = {
132                 name: `${formData.name_book}`,
133                 price: `${formData.price_book}`,
134                 category: `${formData.category_book}`
135             };
136
137             //merge bookss to books
138             books = Object.assign([{}], bookss);
139             books[selectedRow] = bookUpdate;
140             localStorage.setItem('books', JSON.stringify(books));
141
142             document.getElementsByClassName("header-add")[0].innerHTML = "Add new book here!";
143             header.style.backgroundColor = "rgb(147, 196, 125)";
144             selectedRow = null;
145         }
146
147         //delete
148         function deleteBook(id) {
149             //get books from localstorage
150             let databooks = getbooks();
151             if (confirm('Do you want to delete this record?')) {
152                 //remove books at id and count 1
153                 databooks.splice(id, 1);
154                 localStorage.setItem('books', JSON.stringify(databooks));
155
156                 //reset home to update id element
157                 document.getElementById("add_items").innerHTML = '';
158                 document.getElementById("add_items").innerHTML = `<div class="book-info">Book</div>`;
159                 for (databook in databooks) {
160                     document.getElementById("add_items").innerHTML +=
161                         `<div class="items">` +
162                         `<img src="./img/book\.png" alt="#">` +
163                         `<div class="name">Name : ${databooks[databook].name}</div>` +
164                         `<div class="price">Price : ${databooks[databook].price} riels</div>` +
165                         `<div class="category">Category : ${databooks[databook].category}</div>` +
166                         `<div class="button">` +
167                         `<button id="${parseInt(databook)}" class="editBtn" onclick="editBook(this.id)">Edit</button>` +
168                         `<button id="${parseInt(databook)}" class="deleteBtn" onclick="deleteBook(this.id)">Delete</button>` +
169                         `</div>` +
170                         `</div>`;
```

```
168                         `<button id="${parseInt(databook)}" class="deleteBtn" onclick="deleteBook(this.id)">Delete</button>` +
169                         `</div>` +
170                     `</div>`;
171                 }
172             }
173             resetForm();
174         }
175
176         function resetForm() {
177             document.getElementById('name_book').value = '';
178             document.getElementById('price_book').value = '';
179             document.getElementById('category_book').value = '';
180         }
181
182         //get books from localstorage
183         function getbooks() {
184             const getbooks = localStorage.getItem('books');
185             let databooks = JSON.parse(getbooks);
186
187             return databooks;
188         }
```

- book-api.js

```
1    const queryString = window.location.search;
2            const urlParams = new URLSearchParams(queryString);
3
4            const id = urlParams.get('bookid');
5            let result = [];
6            let output = '';
7
8            fetch(`https://jsonplaceholder.typicode.com/photos/${id}`).then(async(res) => {
9                result = await res.json();
10               console.log(result)
11               output += `<div class="container">` +
12                   `<div>${result.title}</div>` +
13                   `<div>${result.albumId}</div>` +
14                   `</div>` +
15                   `<div class="home">` +
16                   `<div>${result.id}</div>` +
17                   `<img src="${result.url}" alt="#">` +
18                   `</div>`
19
20               document.getElementsByClassName('items')[0].innerHTML = output;
21           });
```

- Result of Ex5:

- After delete we will see record data of list book

Add new book here!

Name

c programming

Category

coding

Price

1000 riels

Add

Book

Name : PHP2

Price : 4000 riels

Category : coding

Edit Delete

Name : PHP

Price : 20000 riels

Category : programming

Edit Delete

Name : Java

Price : 20000 riels

Category : Programming

Edit Delete

Name : Node JS

Price : 2000 riels

Category : framwork

Edit Delete

Name : PHP

Price : 25000 riels

Category : Coding

Edit Delete

Name : C program

Price : 250000 riels

Category : coding

Edit Delete

Name : Statistic I

Price : 34000 riels

Category : Mathematic

Edit Delete