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TP7 Assignment

Git url: <https://github.com/LyhongPich/TP-Internet-Programming/tree/TP7>

Ex1: Activity Suggestion

Source code:

- Html file

```
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</title>
8      <link rel="preconnect" href="https://fonts.googleapis.com">
9      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
10     <link href="https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap" rel="stylesheet">
11     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.3.0/css/all.min.css"/>
12
13     <style>
14         body{
15             display: flex;
16             height: 700px;
17             justify-content: center;
18             align-items: center;
19         }
20         .box{
21             border: 5px solid black;
22             width: 600px;
23             height: 500px;
24             text-align: center;
25             display: flex;
26             flex-direction: column;
27             align-items: center;
28         }
29         .box img{
30             width: 150px;
```

```
31 }
32 .box h3{
33     font-family: 'Irish Grover', cursive;
34 }
35 #btn{
36     background-color: ■ rgb(76, 197, 249);
37     width: 150px;
38     padding: 10px;
39     border: none;
40     border-radius: 10px;
41     font-family: 'Irish Grover', cursive;
42 }
43 .inLoad{
44     padding-top: 100px;
45 }
46 .activity{
47     margin: 20px 0px;
48     width: 400px;
49     height: 300px;
50     overflow-x: auto;
51     border: 2px solid ■ rgb(202, 198, 198);
52     border-radius: 7px;
53     background-color: ■ rgb(215, 225, 235);
54 }
55 .load .para .edit i {
56     width: 20px;
57     height: 20px;
58     color: ■ rgb(68, 185, 240);
59     margin-top: 5px;
60     margin-right: 10px;
```

```
61     }
62     .para{
63         padding-left: 30px;
64         text-align: left;
65     }
66     .edit{
67         display: flex;
68         align-items: center;
69         height: 20px;
70         padding: 5px;
71     }
72 </style>
73 </head>
74 <body>
75     <div class="box">
76         
77         <h3>Are you boring?</h3>
78         <button id="btn" onclick="loadActivity()">Tell me what to do</button>
79         <div id="loading" class="activity">
80             <div id="toLoad" class="inLoad">Loading...</div>
81             <div id="load" class="load">
82
83             </div>
84         </div>
85     </div>
86
87     <script>
88         let loading = document.getElementById('loading');
89
90         loading.hidden = true;
```

```

91     function loadActivity(){
92         loading.hidden = false;
93         let toLoad = document.getElementById('toLoad');
94         let load = document.getElementById('load');
95         toLoad.hidden = false;
96         load.hidden = true;
97         fetch('https://www.boredapi.com/api/activity')
98             .then(async (response) =>{
99             toLoad.hidden = true;
100             load.hidden = false;
101             let data = await response.json();
102             load.innerHTML = `
103                 <h5>${data["activity"]}</h5>
104                 <div class="para">
105                     <div class="edit">
106                         <i class="fa-solid fa-tag"></i>
107                         <p>Type: ${data["type"]}</p>
108                     </div>
109                     <div class="edit">
110                         <i class="fa-solid fa-users"></i>
111                         <p>Participants: ${data["participants"]}</p>
112                     </div>
113                     <div class="edit">
114                         <i class="fa-solid fa-dollar-sign"></i>
115                         <p>Price: ${data["price"]} $</p>
116                     </div>
117                     <div class="edit">
118                         <i class="fa-solid fa-link"></i>
119                         <p>Link: <a href="${data["link"]}">${data["link"]}</a></p>
120                     </div>

```

```

121                 </div>
122             `
123         })
124     }
125 </script>
126 </body>
127 </html>

```

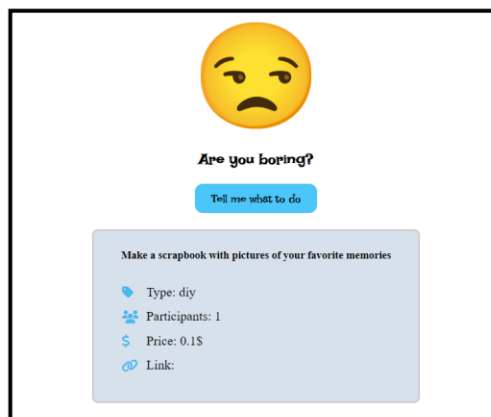
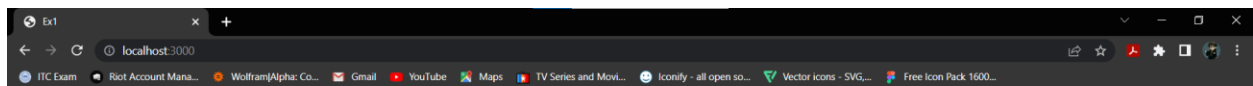
- Index.js file

```

1  const express = require('express');
2  const fs = require('fs');
3  const app = express();
4
5  app.get('/', (req,res)=>{
6      fs.readFile('src/ActivitySuggestion.html', 'utf8', (err,data)=>{
7          if(err) {
8              console.error(err);
9              return;
10         }
11         res.send(data);
12     });
13 });
14
15 app.listen(3000, ()=>{
16     console.log("The server is running on port 3000");
17 });

```

Output:



Ex2: List and Viewer

Source code:

- ListAndViewer.html file

```
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="preconnect" href="https://fonts.googleapis.com">
9      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
10     <link href="https://fonts.googleapis.com/css2?family=Irish+Grover&display=swap" rel="stylesheet">
11     <title>Ex2</title>
12     <style>
13         body{
14             margin: 0px;
15             padding: 0px;
16             display: flex;
17             height: 710px;
18             justify-content: center;
19             align-items: center;
20         }
21         #container{
22             width: 700px;
23             height: 600px;
24             border: 5px solid black;
25         }
26         #container h1{
27             font-family: 'Irish Grover', cursive;
28             padding-top: 30px;
29             text-align: center;
30         }

```

```
31     #block{
32         display: flex;
33         width: 95%;
34         margin: 0px auto;
35         justify-content: center;
36     }
37     #block_list{
38         font-family: Arial, Helvetica, sans-serif;
39         width: 400px;
40         height: 450px;
41         background-color: ■ #f4f4f4;
42         margin: 5px;
43         border-radius: 10px;
44         overflow-y: auto;
45     }
46     #block_display{
47         font-family: Arial, Helvetica, sans-serif;
48         border: 2px solid ■ #f4f4f4;
49         width: 400px;
50         height: 450px;
51         background-color: ■ white;
52         margin: 5px;
53         border-radius: 10px;
54         overflow-y: auto;
55     }
56     #loading{
57         margin-top: 250px;
58         width: 50%;
59         height: 100px;
60     }
```

```
61     .box_list{
62         display: flex;
63         margin-top: 5px;
64         margin-left: 10px;
65         width: 95%;
66         height: 100px;
67         background-color: white;
68         border-radius: 5px;
69     }
70     .image_list{
71         font-size: 40px;
72     }
73     .box_list:hover{
74         background-color: rgb(64, 105, 210);
75     }
76     .text1{
77         margin-top: 10px;
78     }
79     .text2{
80         margin-top: 10px;
81     }
82     .block_display_beer{
83         display: grid;
84         justify-content: center;
85     }
86     .image_beer{
87         display: flex;
88         justify-content: center;
89     }
90     .beer{
```



```
91         width: 200px;
92         height: 400px;
93         margin-top: 20px;
94     }
95     .description{
96         text-align: center;
97     }
98     .name{
99         margin-top: 10px;
100    }
101    .time{
102        margin-top: 10px;
103    }
104    .contribution{
105        margin-top: 10px;
106    }
107    .bulider{
108        font-weight: bold;
109    }
110    </style>
111 </head>
112 <body>
113     <div id="container">
114         <div><h1>Find your Favorite 🍷?</h1></div>
115         <div id="block">
116             <div id="block_list"></div>
117             <div id="block_display"></div>
118         </div>
119     </div>
120     <script>
```

```

121     let list_data = document.getElementById("block_list");
122     let dataLoading = false;
123     let page=0;
124     let size=10;
125     let check=1;
126     let tmp="";
127     let parseddata="";
128     function click_display(){
129         let tmp1="";
130         for(let i=0,len=list_data.children.length;i<len;i++){
131             (function(index){
132                 list_data.children[i].onclick=function(){
133                     tmp1=`
134                         <div class="block_display_beer">
135                             <div class="image_beer"></img></div>
136                             <div class="description">
137                                 <h3 class="name">${parseddata[index].name}</h3>
138                                 <p class="time">${parseddata[index].first_brewed}</p>
139                                 <p class="des">${parseddata[index].description}</p>
140                                 <p class="contribution">Contribution</p>
141                                 <p class="bulider">{ ${parseddata[index].contributed_by} }</p>
142                             </div>
143                         </div>`
144                     document.getElementById("block_display").innerHTML=tmp1;
145                 }
146             })(i)
147         }
148     }
149     function display(){
150         let tmp="";

```

```

151     const str = localStorage.getItem('data');
152     parseddata = JSON.parse(str);
153     if(str!== null && check ==1){
154         console.log();
155         for(let i=0 ; i<parseddata.length;i++){
156             tmp +=
157                 `<div class="box_list">
158                     <div class="image_list">🍺</div>
159                     <div>
160                         <p class="text1">${parseddata[i].name}</p>
161                         <p class="text2">${parseddata[i].description.substring(0, 30).concat('...')}</p>
162                     </div>
163                 </div>`
164         }
165         list_data.innerHTML=tmp;
166         number_page=parseddata.length/10;
167         page=parseddata.length;
168         size=page+10;
169     }
170     if(size<81){
171         fetch(`https://api.punkapi.com/v2/beers? page=${page}&per_page=${size}`).then(async (res) =>{
172             let data_list = await res.json();
173             const data_json = JSON.stringify(data_list);
174             window.localStorage.setItem('data', data_json);
175             for(let i=page ; i<data_list.length;i++){
176                 tmp +=
177                     `<div class="box_list">
178                         <div>🍺</div>
179                         <div class="list_each_data">
180                             <p class="text1">${data_list[i].name}</p>

```

```

181         <p class="text2">${data_list[i].description.substring(0, 30).concat('...')}</p>
182     </div>
183 </div> `
184     }
185     document.getElementById("block_list").innerHTML=tmp;
186     click_display()
187 }
188 }
189 }
190 list_data.addEventListener("scroll", (event) => {
191     const { scrollTop, clientHeight, scrollHeight } = list_data;
192     if ((clientHeight + scrollTop) >= scrollHeight*0.98) {
193         if (!dataLoading) {
194             size = page +10;
195             display()
196         }
197     }
198 }
199 });
200 display()
201 click_display()
202 </script>
203 </body>
204 </html>

```

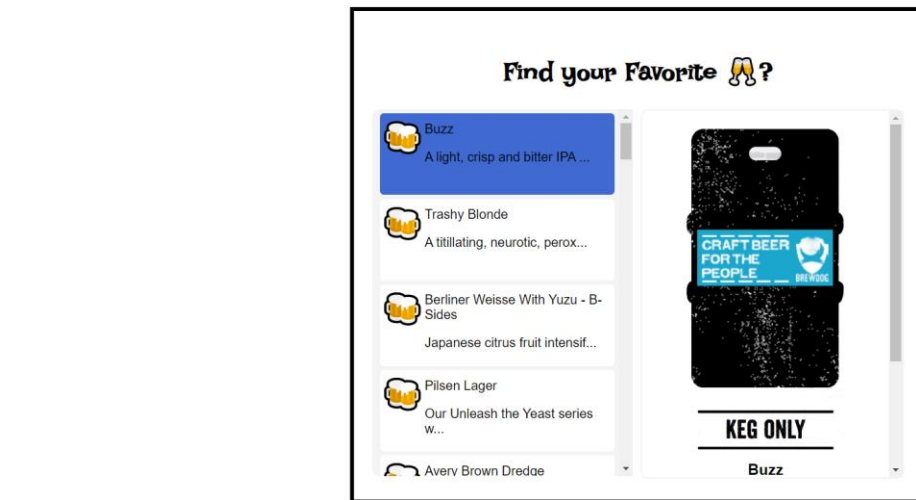
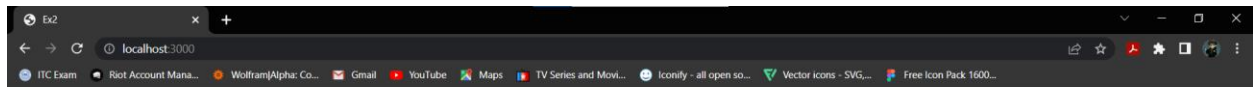
- Index.js file

```

1  const express = require('express');
2  const fs = require('fs');
3  const app = express();
4
5  app.get('/', (req,res)=>{
6      fs.readFile('src/ListAndViewer.html', 'utf8', (err,data)=>{
7          if(err) {
8              console.error(err);
9              return;
10         }
11         res.send(data);
12     });
13 });
14
15 app.listen(3000, ()=>{
16     console.log("The server is running on port 3000");
17 });

```

Output:



Ex3: BookStore

Source code:

- BookStore.html file

```
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</title>
8   <style>
9
10     body{
11       display: flex;
12       height: fit-content;
13     }
14     .left{
15       background-color: #aliceblue;
16       display: flex;
17       justify-content: center;
18       width: 200px;
19       height: 100%;
20     }
21     .addSession{
22       margin: 10px 0px;
23     }
24     .inp{
25       margin-bottom: 15px;
26     }
27     #right{
28       margin-left: 5px;
29       background-color: #aliceblue;
30       width: 1030px;
```

```
31         height:max-content;
32     }
33     .book{
34         width: 200px;
35         height: 330px;
36         background-color: white;
37         padding-top: 25px;
38         margin-left: 5px;
39         margin-top: 5px;
40     }
41     #bookInfo{
42         display: flex;
43         flex-wrap: wrap;
44     }
45 </style>
46 </head>
47 <body>
48     <div class="left">
49         <div class="addSession">
50             <div class="inp">
51                 <label for="text">Name:</label><br>
52                 <input type="text" name="" id="" placeholder="c programming">
53             </div>
54             <div class="inp">
55                 <label for="text">Category:</label><br>
56                 <input type="text" name="" id="" placeholder="coding">
57             </div>
58             <div class="inp">
59                 <label for="text">Price</label><br>
60                 <input type="text" name="" id="" placeholder="1,000 riels">
```

```
61         </div>
62         <div class="addBtn">
63             <button>Add</button>
64         </div>
65     </div>
66 </div>
67 <div id="right">
68     <div id="loading">Loading...</div>
69     <div id="show">
70         <div id="bookInfo"></div>
71     </div>
72 </div>
73
74 <script>
75
76     let rightSide = document.getElementById('right');
77     let loading = document.getElementById('loading');
78     let show = document.getElementById('show');
79
80     rightSide.hidden = false;
81     rightSide.style.background = "white"
82     loading.hidden = false;
83     show.hidden = true;
84
85     fetch('https://jsonplaceholder.typicode.com/photos')
86
87     .then(async(result) => {
88         loading.hidden = true;
89         rightSide.style.background = "aliceblue";
90         show.hidden = false;
```

```

91     let book = document.getElementById('bookInfo');
92     let data = await result.json();
93
94     console.log(data);
95     let content = '';
96     for(let x of data){
97         content += `
98             <div class="book">
99                 
100                 <p>${x.title}</p>
101                 <p>Album id: ${x.albumId} riel</p>
102                 <p>Category: ${x.id}</p>
103                 <a href="./detail?bookId=${x.id}">see</a>
104             </div>
105         `;
106     }
107     book.innerHTML = content;
108 }
109 </script>
110 </body>
111 </html>

```

- BookDetail.html file


```
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>Book Detail</title>
8      <style>
9          body{
10              display: flex;
11              flex-direction: column;
12              height: 700px;
13              align-items: center;
14              font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
15          }
16          .description{
17              width: 100%;
18              height: 200px;
19              background-color: #292929;
20          }
21          .thumbnail{
22              width: 100%;
23              height: 500px;
24          }
25          .center{
26              width: 70%;
27              display: flex;
28              flex-direction: column;
29              align-items: center;
30              text-align: center;
```

```
31         color: white;
32         margin: 10px auto;
33     }
34     .resize{
35         display: flex;
36         flex-direction: column;
37         width: 70%;
38         justify-content: center;
39         align-items: center;
40         text-align: center;
41         margin: 0px auto;
42         font-size: 20px;
43         font-weight: bold;
44     }
45
46     </style>
47 </head>
48 <body>
49
50     <div class="description">
51         <div id="firstRow" class="center"></div>
52     </div>
53     <div class="thumbnail">
54         <div id="secondRow" class="resize"></div>
55     </div>
56
57     <script>
58         // get book id value from the first html page
59         const urlParams = new URLSearchParams(window.location.search);
60         const bookId = urlParams.get('bookId');
```

```

61
62     let firstRow = document.getElementById('firstRow');
63     let secondRow = document.getElementById('secondRow');
64
65     fetch(`https://jsonplaceholder.typicode.com/photos/${bookId}`)
66     .then(async(result)=>{
67
68         let data = await result.json();
69
70         let firstContent = `
71             <h3>${data.title}</h3>
72             <p>${data.id}</p>
73             <p>Resize the browser window to see that this page is responsive by the way</p>
74         `;
75
76         let secondContent = `
77             <p>${data.id}</p>
78             
79         `;
80
81         firstRow.innerHTML = firstContent;
82         secondRow.innerHTML = secondContent;
83
84     });
85 </script>
86 </body>
87 </html>

```

- Index.js file

```
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>Book Detail</title>
8   <style>
9     body{
10       display: flex;
11       flex-direction: column;
12       height: 700px;
13       align-items: center;
14       font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
15     }
16     .description{
17       width: 100%;
18       height: 200px;
19       background-color: #d3d3d3;
20     }
21     .thumbnail{
22       width: 100%;
23       height: 500px;
24     }
25     .center{
26       width: 70%;
27       display: flex;
28       flex-direction: column;
29       align-items: center;
30       text-align: center;
```

```

61
62     let firstRow = document.getElementById('firstRow');
63     let secondRow = document.getElementById('secondRow');
64
65     fetch(`https://jsonplaceholder.typicode.com/photos/${bookId}`)
66     .then(async(result)=>{
67
68         let data = await result.json();
69
70         let firstContent = `
71             <h3>${data.title}</h3>
72             <p>${data.id}</p>
73             <p>Resize the browser window to see that this page is responsive by the way</p>
74         `;
75
76         let secondContent = `
77             <p>${data.id}</p>
78             
79         `;
80
81         firstRow.innerHTML = firstContent;
82         secondRow.innerHTML = secondContent;
83
84     });
85 </script>
86 </body>
87 </html>

```

- Index.js

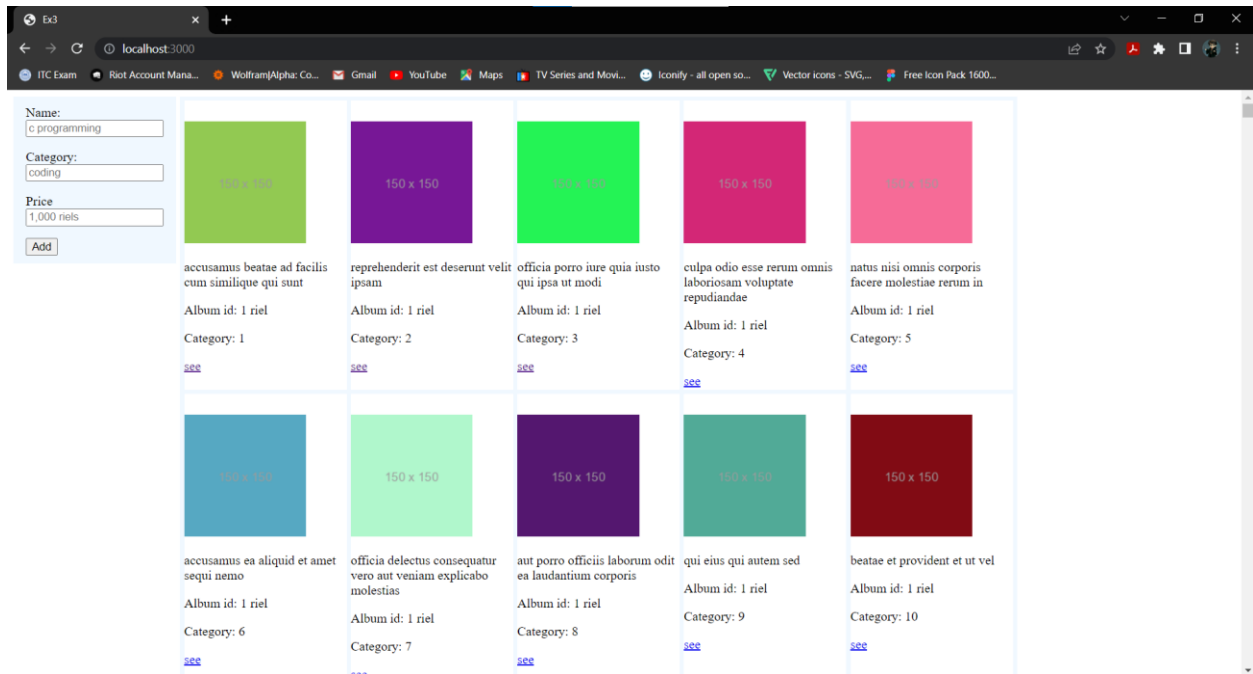
```

1  const express = require('express');
2  const fs = require('fs');
3  const app = express();
4
5  app.get('/', (req,res)=>{
6      fs.readFile('src/BookStore.html', 'utf8', (err,data)=>{
7          if(err) {
8              console.error(err);
9              return;
10         }
11         res.send(data);
12     });
13 });
14
15 app.get('/detail', (req,res)=>{
16     fs.readFile('src/BookDetail.html', 'utf8', (err,data)=>{
17         if(err) {
18             console.error(err);
19             return;
20         }
21         res.send(data);
22     });
23 });
24
25 app.listen(3000, ()=>{
26     console.log("Server is running on port 3000");
27 })

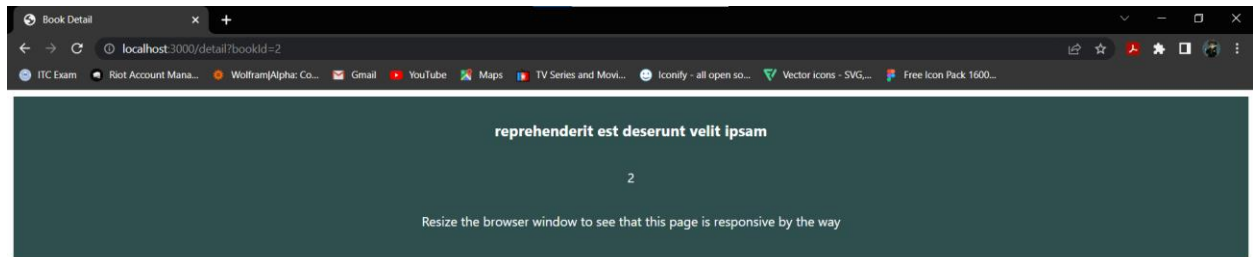
```

Output:

- BookStore.html



- StoreDetail.html



2

