Institute of Technology of Cambodia

Département de Génie Informatique et Communication

Department of Information and Communication Engineering

Professeur   :   HOK TIN

Subject   :   Internet Programming

Assigment   :   TP06 (Infinite scroll + local data sync)

STUDENT   :   THUE NARAT T

Group   :   I4GIC©

ID   :   E20191186

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Contents

URL : https://github.com/thuenaratt/TP06

EX6.1 : PAGINATION (INFINITE SCROLL)

```html
tp6.1 > 🔲 TP06.1.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>Pagination(infinite scroll)</title>
 8       <script src="TP06.1.js" defer></script>
 9       <link rel="stylesheet" href="loading.css">
10       <link rel="stylesheet" href="style.css">
11
12   </head>
13   <body>
14       <div id="wrapper">
15           <div id="page_num">
16               <h2 id="Num">1</h2>
17           </div>
18           <div id="container"></div>
19       </div>
20   </body>
21   </html>
```

```css
tp6.1 > 🔲 style.css > 🔩 body #wrapper
 1   * {
 2     padding: 0;
 3     margin: 0;
 4     box-sizing: border-box;
 5   }
 6
 7   body {
 8     height: 100vh;
 9     justify-content: center;
10     display: flex;
11     align-items: center;
12   }
13   body #wrapper {
14     width: 70%;
15     height: 90%;
16     background-color: gray;
17     border: 1px solid black;
18     display: flex;
19     gap: 2rem;
20     box-shadow: 0 0 0 3px;
21   }
22   body #wrapper > div {
23     width: 100%;
24   }
25   body #wrapper #page_num {
26     width: -moz-fit-content;
27     width: fit-content;
28     background-color: rgb(18, 252, 232);
29     box-shadow: 2px 0 30px black;
30   }
31   body #wrapper #page_num h2 {
32     padding: 0 2rem;
33   }
34   body #wrapper #container {
35     padding: 0 1rem;
36     height: 100%;
37     display: flex;
38     flex: 2;
39     flex-direction: column;
40     overflow: auto;
41     gap: 0.6rem;
42   }
43   body #wrapper #container .content {
44     width: 100%;
45     background-color: white;
46     border-radius: 0.4rem;
47     padding: 0.4rem 0.7rem;
48   }
49   body #wrapper #container .content .title {
50     width: 100%;
51     display: flex;
52     justify-content: flex-start;
53     align-items: center;
54     gap: 0.5rem;
55   }
56   body #wrapper #container .content .title img {
57     width: 5rem;
58     height: 100%;
59   }
60   body #wrapper #container .content .title h2 {
61     font-size: 1.5rem;
62   }/*# sourceMappingURL=style.css.map */
```

```javascript
let currentpage=0;
let size=10;
let scrollable=document.querySelector("#container")
let ApiUrl='https://api.instantwebtools.net/v1/passenger'
let isScrollable=true
const getdata=()=>{
    document.querySelector('#container').innerHTML+=`<div class="lds-ellipsis"><div></div><div></div><div></div><div></div></div>`
    fetch(`${ApiUrl}?page=${currentpage}&size=${size}`)
    .then(res=>res.json())
    .then(data=>{
        render(data.data,currentpage)
        currentpage++;
        isScrollable=true
    })
}


scrollable.addEventListener('scroll',(e)=>{
    let target=e.target

    const {scrollHeight,offsetHeight,scrollTop}=target
    if ((offsetHeight+scrollTop)>= scrollHeight*0.90){
        if(isScrollable){
            // console.log("it near bottom");
            getdata()
            isScrollable=false
        }
    }

})
            <div class="content">
            <div class="title">
                <img src="${item.airline[0].logo}" alt="${item.airline[0].name}">
                <h2>:</h2>
                <h2>${item.airline[0].name}</h2>
            </div>
            <div class="bodyContent">
                <p>🤩: ${item.name}</p>
            </div>
            </div>
            `
        })
        document.querySelector('#container').innerHTML+=tmp
        document.querySelector('.lds-ellipsis').remove()
    }
}

window.addEventListener('load',(e)=>{
    getdata()
})
```

EX 6.2 : LOCAL DATA SYNC

```html
tp6.2 > 5 TP06.2.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>Pagination(infinite scroll)</title>
  8        <script src="TP06.2.js" defer></script>
  9        <link rel="stylesheet" href="loading.css">
 10        <link rel="stylesheet" href="style.css">
 11
 12    </head>
 13    <body>
 14        <div id="wrapper">
 15            <div id="page_num">
 16                <h2 id="Num">1</h2>
 17            </div>
 18            <div id="container"></div>
 19        </div>
 20    </body>
 21    </html>
```

```css
1  * {
2    padding: 0;
3    margin: 0;
4    box-sizing: border-box;
5  }
6
7  body {
8    height: 100vh;
9    justify-content: center;
10   display: flex;
11   align-items: center;
12 }
13 body #wrapper {
14   width: 70%;
15   height: 90%;
16   background-color: ▣gray;
17   border: 1px solid ☐black;
18   display: flex;
19   gap: 2rem;
20   box-shadow: 0 0 0 3px;
21 }
22 body #wrapper > div {
23   width: 100%;
24 }
25 body #wrapper #page_num {
26   width: -moz-fit-content;
27   width: fit-content;
28   background-color: ▣rgb(18, 252, 232);
29   box-shadow: 2px 0 30px ☐black;
30 }
31 body #wrapper #page_num h2 {
32   padding: 0 2rem;
33 }
34 body #wrapper #container {
35   padding: 0 1rem;
36   height: 100%;
37   display: flex;
38   flex: 2;
39   flex-direction: column;
40   overflow: auto;
41   gap: 0.6rem;
42 }
43 body #wrapper #container .content {
44   width: 100%;
45   background-color: ☐white;
46   border-radius: 0.4rem;
47   padding: 0.4rem 0.7rem;
48 }
49 body #wrapper #container .content .title {
50   width: 100%;
51   display: flex;
52   justify-content: flex-start;
53   align-items: center;
54   gap: 0.5rem;
55 }
56 body #wrapper #container .content .title img {
57   width: 5rem;
58   height: 100%;
59 }
60 body #wrapper #container .content .title h2 {
61   font-size: 1.5rem;
62 }/*# sourceMappingURL=style.css.map */
```

```javascript
1    let currentpage=0;
2    let size=10;
3    let scrollable=document.querySelector("#container")
4    let ApiUrl='https://api.instantwebtools.net/v1/passenger'
5    let isScrollable=true
6    const getdata=()=>{
7        document.querySelector('#container').innerHTML+=`<div class="lds-ellipsis"><div></div><div></div><div></div><div></div></div>`
8        let data=window.localStorage.getItem(currentpage)
9        data = JSON.parse(data)
10       if(data){
11           render(data.data,currentpage)
12           isScrollable=true
13           currentpage++;
14       }else{
15           fetch(`${ApiUrl}?page=${currentpage}&size=${size}`)
16           .then(res=>res.json())
17           .then(data=>{
18               save(currentpage,data)
19               render(data.data,currentpage)
20               currentpage++;
21               isScrollable=true
22           })
23
24
25       }
26
27   }
28   scrollable.addEventListener('scroll',(e)=>{
29       let target=e.target
30
31       const {scrollHeight,offsetHeight,scrollTop}=target
32       if ((offsetHeight+scrollTop)>= scrollHeight*0.90){
33           if(isScrollable){
34               // console.log("it near bottom");
35               getdata()
36               isScrollable=false
37           }
38       }
39
40   })
41   const render=(data,currentpage)=>{
42
43       if(data){
44           document.querySelector('#Num').innerText=currentpage+1
53                   <h2>:</h2>
54                   <h2>${item.airline[0].name}</h2>
55               </div>
56           <div class="bodyContent">
57               <p>😍 : ${item.name}</p>
58           </div>
59           </div>
60           `
61       })
62       document.querySelector('#container').innerHTML+=tmp
63       document.querySelector('.lds-ellipsis').remove()
64   }
65   }
66
67   window.addEventListener('load',(e)=>{
68       getdata()image.png
69   })
70   const save=(page_num,data)=>{
71       if(data){
72           window.localStorage.setItem(page_num,JSON.stringify(data))
73
74       }
```

EX6.3 :   LIST AND VIEWER

```html
TP06.3.html ×

tp6.3 > 🔵 TP06.3.html > 🔵 html > 🔵 head
 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>Pagination(infinite scroll)</title>
 8        <script src="TP06.3.js" defer></script>
 9        <link rel="stylesheet" href="loading.css">
10        <link rel="stylesheet" href="style.css">
11
12    </head>
13    <body>
14        <div id="wrapper">
15            <div id="con_wrapper">
16                <h2>Find your favorite🍺 ?</h2>
17
18            </div>
19            <div id="container">
20                <div id="list_beer"></div>
21                <div id="beer"></div>
22            </div>
23        </div>
24    </body>
25    </html>
```

```css
@import url("https://fonts.googleapis.com/css2?family=Itim&family=Shantell+Sans&display=swap");
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  display: flex;
  justify-content: center;
  margin: 5rem;
}

#wrapper {
  width: 1500px;
  height: 800px;
  border: 4px solid black;
  display: grid;
  justify-content: center;
}

#con_wrapper h2 {
  font-size: 50px;
}

#list_beer {
  font-family: Arial, Helvetica, sans-serif;
  width: 400px;
  height: 500px;
  background-color: #f4f4f4;
  margin: 5px;
  border-radius: 10px;
  overflow-y: auto;
}

#beer {
  font-family: Arial, Helvetica, sans-serif;
  border: 2px solid #f4f4f4;
  width: 400px;
  height: 500px;
  background-color: white;
  margin: 5px;
  border-radius: 10px;
  overflow-y: auto;
}

#loading {
  margin-top: 250px;
  width: 50%;
  height: 100px;
}

.box_list {
  display: flex;
  margin-top: 5px;
  margin-left: 10px;
  width: 95%;
  height: 100px;
  background-color: white;
  border-radius: 5px;
}

.image_list {
  font-size: 40px;
}
```

```javascript
1    let list_data = document.getElementById("list_beer");
2    let dataLoading =false;
3    let page=0;
4    let size=10;
5    let check=1;
6    let tmp="";
7    let parseddata="";
8    function click_display(){
9        let tmp1="";
10       for(let i=0,len=list_data.children.length;i<len;i++){
11           (function(index){
12               list_data.children[i].onclick=function(){
13                   tmp1=`
14                   <div class="block_display_beer">
15                       <div class="image_beer"><img src="${parseddata[index].image_url}" class="beer"></img></div>
16                       <div class="description">
17                           <h3 class="name">${parseddata[index].name}</h3>
18                           <p class="time">${parseddata[index].first_brewed}</p>
19                           <p class="des">${parseddata[index].description}</p>
20                           <p class="contribution">Contribution</p>
21                           <p class="bulider">( ${parseddata[index].contributed_by} )</p>
22                       </div>
23                   </div>`
24                   document.getElementById("beer").innerHTML=tmp1;
25               }
26           })(i)
27       }
28   }
29   function display(){
30       let tmp="";
31       const str = localStorage.getItem('data');
32       parseddata = JSON.parse(str);
33       if(str!== null && check ==1){
34           console.log();
35           for(let i=0 ; i<parseddata.length;i++){
36               tmp +=
37               `<div class="box_list">
38                   <div class="image_list">🍺</div>
39                   <div>
40                       <p class="text1">${parseddata[i].name}</p>
41                       <p class="text2">${parseddata[i].description.substring(0, 30).concat('...')}</p>
42                   </div>
43               </div>`
44           }
45           list_data.innerHTML=tmp;
46           number_page=parseddata.length/10;
47           page=parseddata.length;
48           size=page+10;
49       }
50       if(size<81){
51           fetch(`https://api.punkapi.com/v2/beers? page=${page}}&per_page=${size}`).then(async (res) =>{
52               let data_list = await res.json();
53               const data_json = JSON.stringify(data_list);
54               window.localStorage.setItem('data', data_json);
55               for(let i=page ; i<data_list.length;i++){
56                   tmp +=
57                   `<div class="box_list">
58                       <div>🍺</div>
59                       <div class="list_each_data">
60                           <p class="text1">${data_list[i].name}</p>
61                           <p class="text2">${data_list[i].description.substring(0, 30).concat('...')}</p>
62                       </div>
63                   </div> `
64               }
65               document.getElementById("list_beer").innerHTML=tmp;
66               click_display()
67           })
68       }
69   }
70   list_data.addEventListener("scroll", (event) => {
71       const { scrollTop, clientHeight, scrollHeight } = list_data;
72       if ((clientHeight + scrollTop) >= scrollHeight*0.98) {
73           if (!dataLoading) {
74               size = page +10;
75               display()
76
77           }
78       }
79   });
80   display();
81   click_display();
82
83   |
```