INTERNET PROGRAMMING

TP6- JavaScript (Pagination, Local data sync)

Lecturer

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github: https://github.com/ChhornKakada/IntenetProgramming/tree/tp6

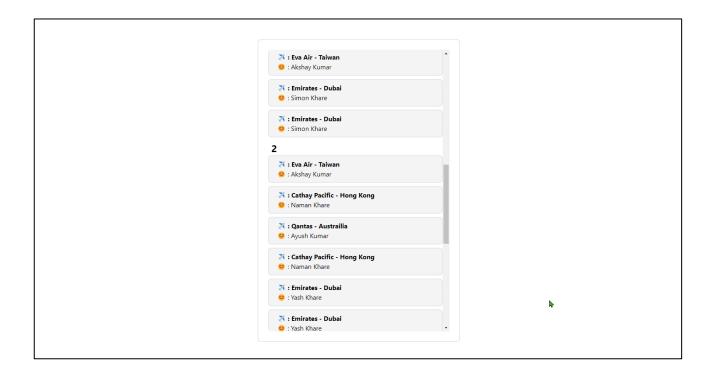
```
ex1. Pagination (infinite scroll)
```

• Index.html (ex1. Pagination (infinite scroll))

```
<!DOCTYPE html>
<html Lang="en">
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Pagination</title>
  <script src="./assets/tailwindcss.js"></script>
  <link rel="stylesheet" href="./assets/styles.css">
</head>
<body>
  <div class="w-[500px] h-[80vh] p-6 absolute top-[50%] left-[50%] border-2</pre>
  translate-x-[-50%] translate-y-[-50%] rounded-lg">
    <div class="h-full rounded-lg overflow-y-scroll" id="scroller">
    </div>
  </div>
  <script src="./assets/app.js"></script>
</body>
</html>
```

• assets/app.js (ex1. Pagination (infinite scroll))

```
toShow +=
         <div class="w-full border-2 rounded-lg px-5 py-2 mb-2 bg-[#F4F4F4]">
          ${element.airline[0].country}</div>
           <div>
  : ${element.name}</div>
         </div>
     });
     scrollerEle.innerHTML = toShow;
     pageNum++;
     isDataLoading = false;
   })
   .then(() => {
     scrollerEle.addEventListener("scroll", () => {
       const { scrollTop, clientHeight, scrollHeight } = scrollerEle;
       if ((clientHeight + scrollTop) >= (scrollHeight * 0.95)) {
         if (!isDataLoading) {
           fetchAPI(pageNum);
     });
   })
   .catch((err) => {
     alert(err);
   });
fetchAPI(pageNum);
```



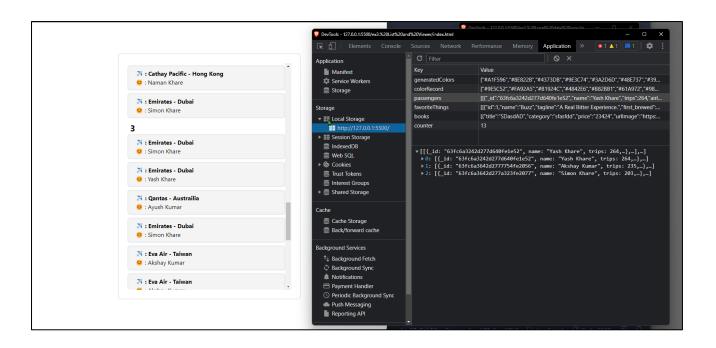
ex2. Local data sync

• index.html (ex2. Local data sync)

```
<!DOCTYPE html>
<html Lang="en">
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Local data sync</title>
  <script src="./assets/tailwindcss.js"></script>
  <link rel="stylesheet" href="./assets/styles.css">
</head>
<body>
  <div class="w-[500px] h-[80vh] p-6 absolute top-[50%] left-[50%] border-2</pre>
  translate-x-[-50%] translate-y-[-50%] rounded-lg">
    <div class="h-full rounded-lg overflow-y-scroll" id="scroller">
    </div>
  </div>
  <script src="./assets/app.js"></script>
</body>
</html>
```

• assets/app.js (ex2. Local data sync)

```
});
function fetchDataFromLocal(pageNumber) {
  displayAPage(passengers[pageNumber]);
function fetchData(pageNumber) {
  scrollerEle.innerHTML += ` <div class="font-bold text-[1.5rem] px-2">${pageNumber
+ 1}</div>`;
 pageNum >= passengers.length ? fetchAPI(pageNum) : fetchDataFromLocal(pageNumber);
 pageNum++;
function fetchAPI(pageNumber) {
  isDataLoading = true;
  fetch(`https://api.instantwebtools.net/v1/passenger?page=${pageNumber}&size=15`)
    .then(async (res) => {
     let dataInfors = await res.json();
     passengers.push(dataInfors.data);
     saveToLocalstorage(passengers);
     displayAPage(dataInfors.data);
      isDataLoading = false;
    })
    .catch((err) => {
     alert(err);
    });
const saveToLocalstorage = (data) => {
  localStorage.setItem("passengers", JSON.stringify(data));
fetchData(pageNum);
scrollerEle.addEventListener("scroll", () => {
  const { scrollTop, clientHeight, scrollHeight } = scrollerEle;
  if ((clientHeight + scrollTop) >= (scrollHeight * 0.95)) {
    if (!isDataLoading) {
      fetchData(pageNum);
});
```



ex3. List and Viewer

• index.html (ex3. List and Viewer)

```
<!DOCTYPE html>
<html Lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>List and Viewer</title>
  <script src="./assets/tailwindcss.js"></script>
  <link rel="stylesheet" href="./assets/styles.css">
</head>
<body>
  <div class=" absolute left-[50%] translate-x-[-50%] py-10">
    <h1 class="juleeFont text-[4rem] text-center font-bold mb-6">Find your favorite
月?</h1>
    <div class="flex gap-2 mx-auto">
      <div class="w-[400px] h-[700px] p-2 border-2 rounded-lg">
        <div class="h-full rounded-lg overflow-y-scroll" id="scroller">
        </div>
      </div>
      <div class="w-[400px] h-[700px] border-2 rounded-lg overflow-y-auto p-6"</pre>
```

assets/app.js (ex3. List and Viewer)

```
let scrollerEle = document.getElementById("scroller");
let view = document.getElementById("view");
let pageNum = 1;
let isDataLoading = false;
var favoriteThings = localStorage.getItem("favoriteThings") != null ?
JSON.parse(localStorage.getItem("favoriteThings")) : [];
function displayAPage(dataAPage) {
 dataAPage.forEach(element => {
    scrollerEle.innerHTML += `
    <button class="w-[97%] flex gap-2 items-center border-2 p-2 rounded-lg bg-</pre>
[#F4F4F4] mr-2 mb-2 something"
     onclick="viewDetail(${element.id})">
     @*
     <div class="shorten text-left">
       <h3 class="font-bold">${element.name}</h3>
       ${element.description}
      </div>
    </button>
  });
function viewDetail(id) {
 for (let pNum of favoriteThings) {
   for (let ele of pNum) {
     if (ele.id == id) {
      view.innerHTML = `
```

```
<center>
          <img src="${ele.image_url}" class="my-6" alt="">
          <h3 class="font-bold">${ele.name}</h3>
          ${ele.first_brewed}
          ${ele.description}
          Contributor
          Sam Mason
        </center>
       break;
function fetchDataFromLocal(pageNumber) {
 displayAPage(favoriteThings[pageNumber]);
function fetchData(pageNumber) {
 scrollerEle.innerHTML += ` <div class="font-bold text-[1.5rem] px-</pre>
2">${pageNumber}</div>`;
 pageNum > favoriteThings.length ? fetchAPI(pageNumber) :
fetchDataFromLocal(pageNumber-1);
 pageNum++;
function fetchAPI(pageNumber) {
 isDataLoading = true;
 fetch(`https://api.punkapi.com/v2/beers?page=${pageNumber}&per_page=15`)
   .then(async (res) => {
     let datas = await res.json();
     favoriteThings.push(datas);
     saveToLocalstorage(favoriteThings);
     displayAPage(datas);
     isDataLoading = false;
   .catch((err) => {
     alert(err);
   });
const saveToLocalstorage = (data) => {
 localStorage.setItem("favoriteThings", JSON.stringify(data));
```

```
fetchData(pageNum);

scrollerEle.addEventListener("scroll", () => {
  const { scrollTop, clientHeight, scrollHeight } = scrollerEle;
  if ((clientHeight + scrollTop) >= (scrollHeight * 0.95)) {
    if (!isDataLoading) {
      fetchData(pageNum);
    }
    }
};
```

