

Hands-on Exercise: AJAX, React useEffect Hook, Vite

Lek Hsiang Hui

Task 1: Working With `fetch()`

1. Open up the web browser developer console and type the following codes into the Console tab

```
fetch("https://jsonplaceholder.typicode.com/users/1")  
  .then((res) => res.json())  
  .then((json) => {  
    console.log(json);  
    //object:  
    //{id: 1, name: "Leanne Graham", ... }  
  });
```

Task 1: Working With `fetch()`

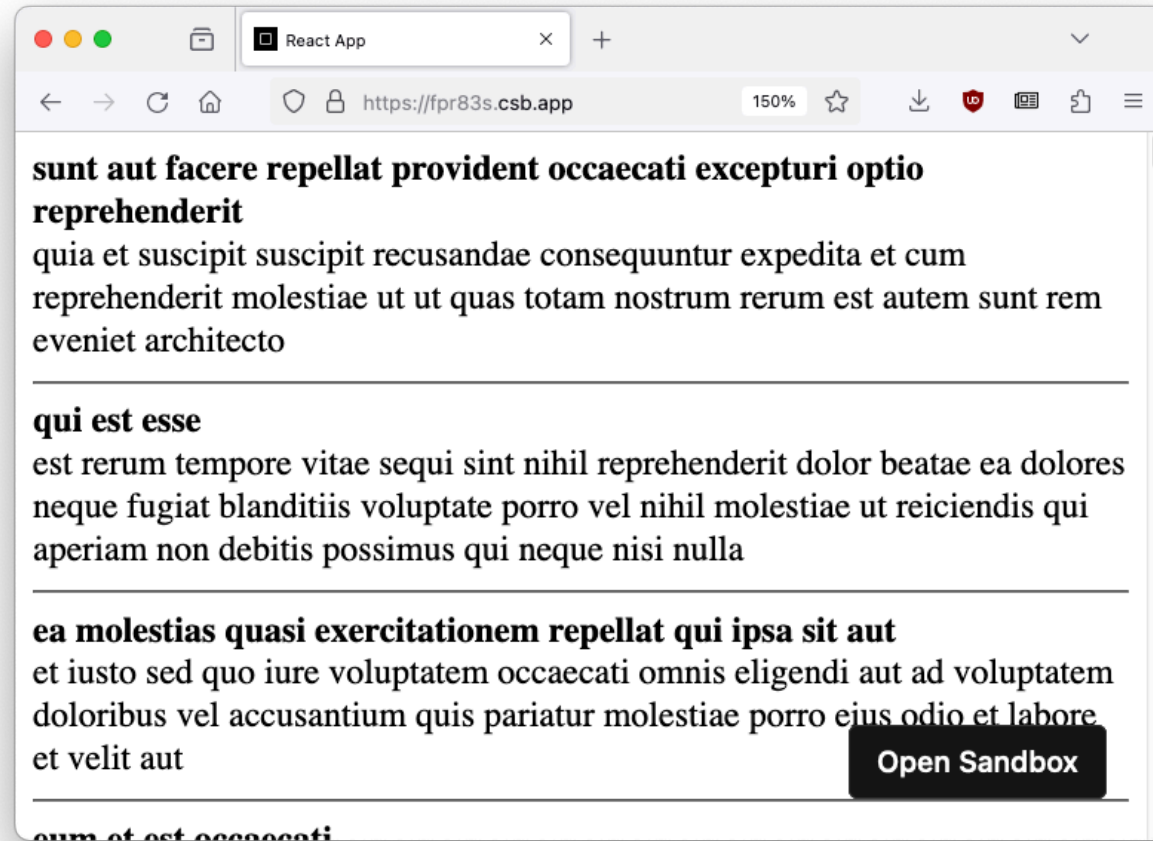
2. You will see that this uses something called **Promises**
3. Take a look at <https://javascript101.netlify.app/2-8-promises> for more explanation on how promises work
4. <https://javascript101.netlify.app/3-1-ajax#fetch-api> will also provide more information on how to work with `fetch()`
5. You might also want to check out <https://javascript101.netlify.app/2-2-arrow-functions> typically used for writing React Apps

Task 2: Display Data From An API

Task:

1. Using `useEffect()` and `fetch()`, load all the posts from the `/posts` resource from the [{JSON} Placeholder fake API](#)
2. Set the result from the `fetch()` to a `data` state variable
3. Using the `map()` function, display the `data` in a presentable manner

Task 2: Display Data From An API



Production Ready Apps Using Vite

Vite Build Tool

- In the videos, we covered **Create React App** (which is no longer maintained but still works)
- Another more commonly used **Build Tool** is **Vite** (<https://vite.dev/>)

Vite Build Tool

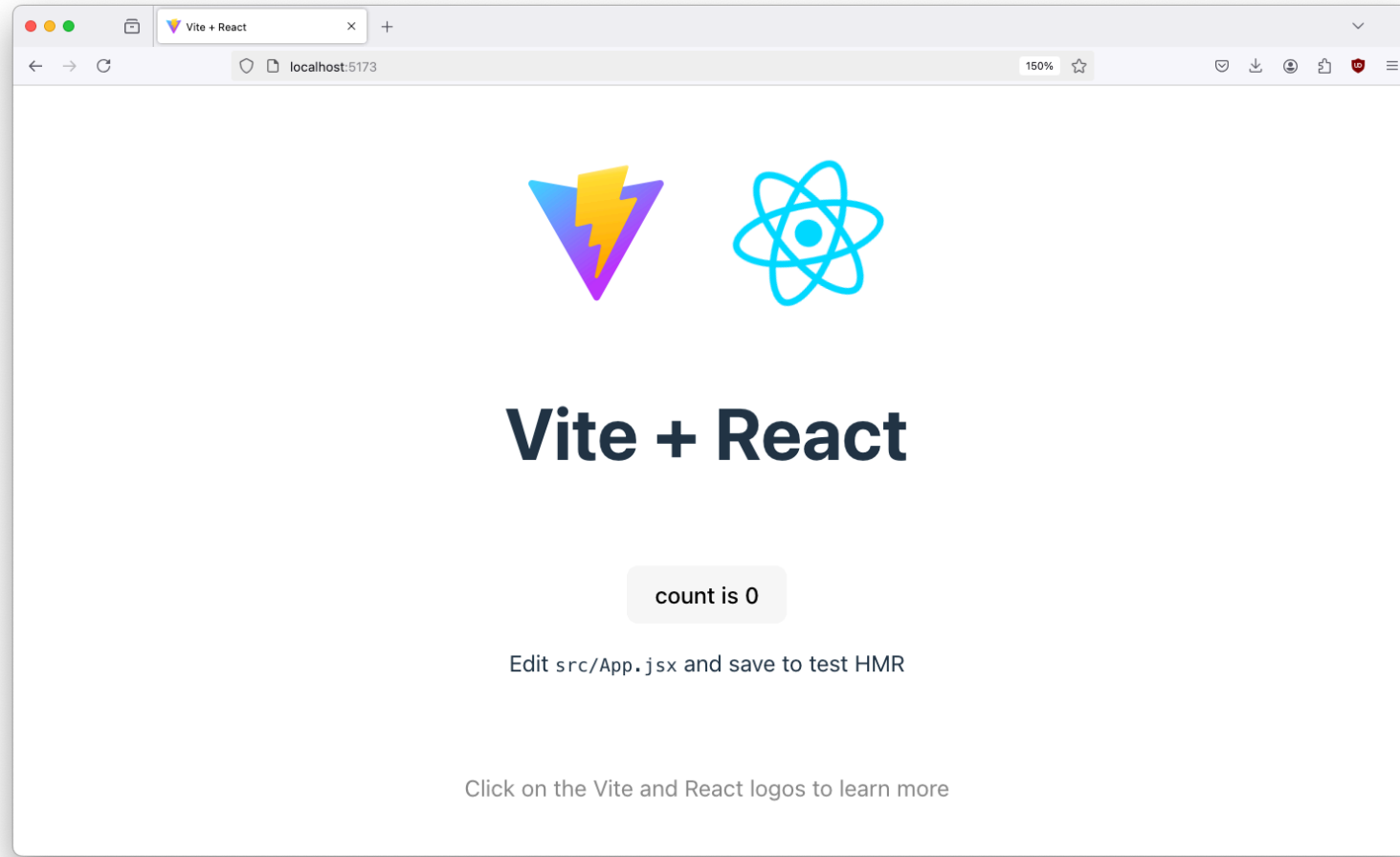
Provides a CLI for creating React apps easily.

```
#extra double-dash is needed for npm 7+  
npm create vite@latest new-app -- --template react  
cd new-app
```

```
#install the dependencies  
npm install
```

```
#start the development server  
npm run dev
```


Vite Development Server



Vite Build Tool

- Similar to CodeSandbox and Create React App, each time when you make changes to the codes (and save the file), the page will auto-refresh

Questions to reflect on:

- How is the folder structure for React Apps created using **Vite** different from **Create React App**?

Task 3: Using Vite

Task:

1. Recreate the previous task using the Vite CLI

