Lesson-End Project
Using Axios

Objective: To develop a React application that demonstrates Axios

Tools Required: Node Terminal, React App, and Visual Studio Code
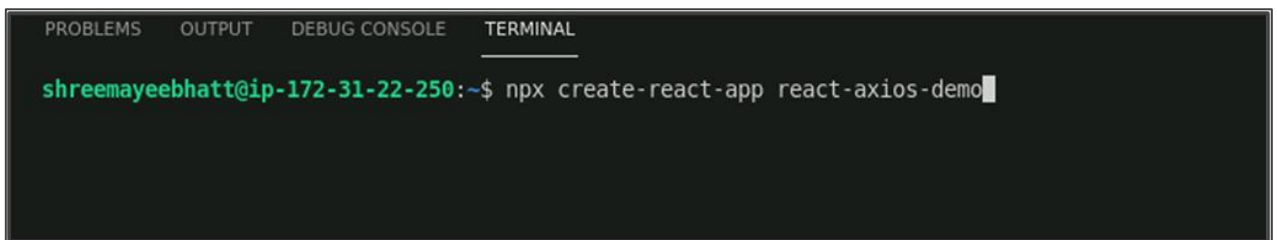
Prerequisites: Knowledge of creating a React app and understanding of the folder structure

Steps to be followed:

1. Create a new **React** project and install **Axios** library
2. Create a new file called **UserList.js** and configure it
3. Configure the **App.js** file
4. Run your **React** app

Step 1: Create a new React project and install Axios library

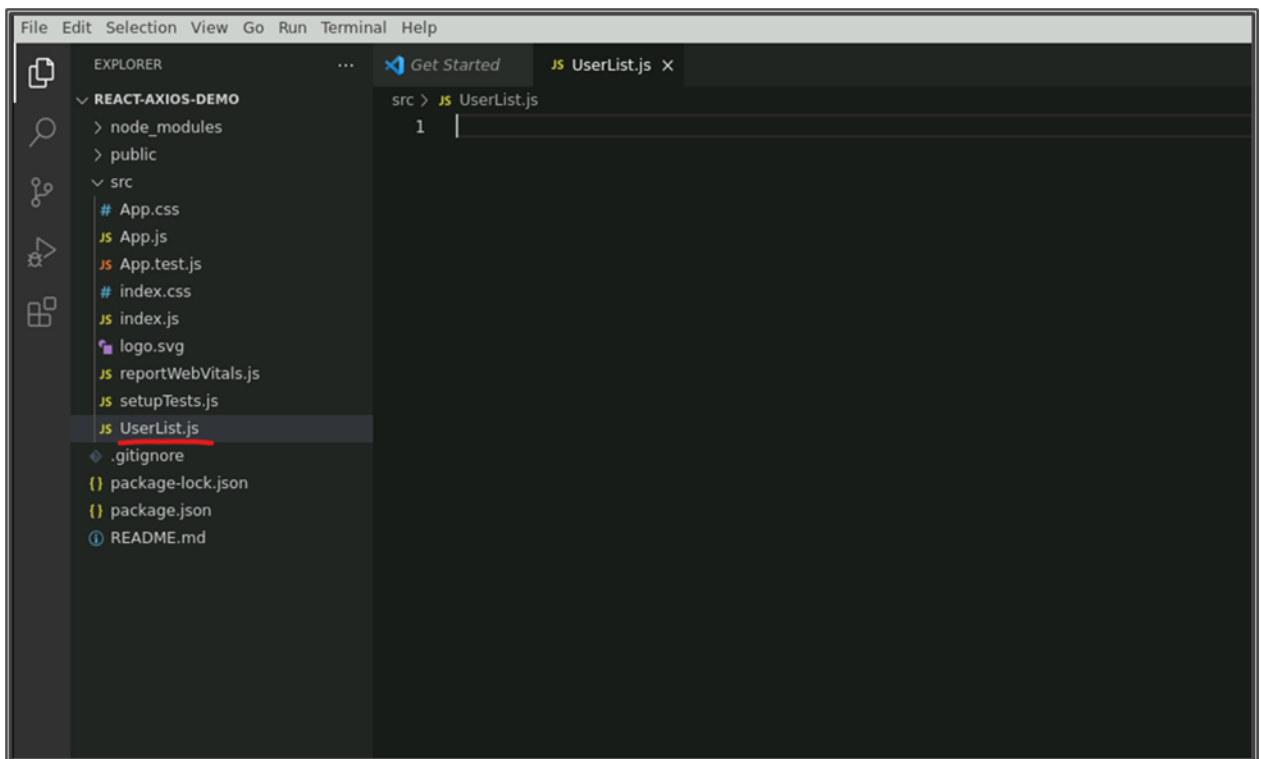1.1 Create a new React project using the **create-react-app** command: **npx create-react-app react-axios-demo**

1.2 Navigate into the project directory using the command: **cd react-axios-demo/**

1.3 Run the command **npm install axios** to install the **Axios** library for making HTTP requests

Step 2: Create a new file called UserList.js and configure it

2.1 Open your React project with the **Visual Studio Code** editor and create a new file called **UserList.js** in your project's source folder

2.2 Open the **UserList.js** file and import **React** and **Axios** at the top of the file using the following code:

import React, { useState, useEffect } from "react";
import axios from "axios";

```
c > JS UserList.js
1    import React, { useState, useEffect } from "react";
2    import axios from "axios";
3
```

2.3 Inside the **UserList** function component, create a state variable to store the list of users
   const [users, setUsers] = useState([]);

2.4 Use the **useEffect** hook to fetch the list of users when the component mounts. Add the following code:

useEffect(() => {
axios.get("https://jsonplaceholder.typicode.com/users").then((response) => {
setUsers(response.data);
});
}, []);

```
 6    useEffect(() => {
 7        axios.get("https://jsonplaceholder.typicode.com/users").then((response) => {
 8            setUsers(response.data);
 9        });
10        }, []);
11
```

2.5 Use the **JSX** syntax to render the list of users and add the following code:

return (
<div>
<h1>User List</h1>

```
<ul>
{users.map((user) => (
<li key={user.id}>{user.name}</li>
))}
</ul>
</div>
);
```

```
src > JS UserList.js > ✪ UserList
    1    import React, { useState, useEffect } from "react";
    2    import axios from "axios";
    3
    4    function UserList(){
    5        const [users, setUsers] = useState([]);
    6
    7    useEffect(() => {
    8        axios.get("https://jsonplaceholder.typicode.com/users").then((response) => {
    9        setUsers(response.data);
   10        });
   11        }, []);
   12
   13        return (
   14            <div>
   15            <h1>User List</h1>
   16            <ul>
   17            {users.map((user) => (
   18            <li key={user.id}>{user.name}</li>
   19            ))}
   20            </ul>
   21            </div>
   22            );
   23    }
   24
   25    export default UserList;
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

[eslint]
src/App.js
  Line 1:8:   'logo' is defined but never used   no-unused-vars
```
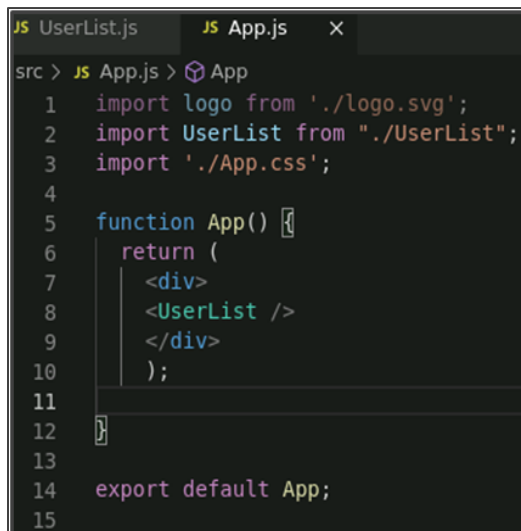
Step 3: Configure the App.js file

3.1 Open the **App.js** file and modify it by importing the **UserList** component at the top of the file using the following code:

import UserList from "./UserList";

3.2 Inside the **App** function component, render the **UserList** component using the following code:

```
function App() {
return (
        <div>
           <UserList />
        </div>
);
}
```

```
JS UserList.js      JS App.js      ×

src > JS App.js > ⊘ App
   1    import logo from './logo.svg';
   2    import UserList from "./UserList";
   3    import './App.css';
   4
   5    function App() {
   6      return (
   7        <div>
   8        <UserList />
   9        </div>
  10      );
  11
  12    }
  13
  14    export default App;
  15
```

Step 4: Run your React app

4.1 In the terminal, navigate to the project directory and run the **npm start** command to start the development server

4.2 Open your browser and navigate to **http://localhost:3000**

User List

- Leanne Graham
- Ervin Howell
- Clementine Bauch
- Patricia Lebsack
- Chelsey Dietrich
- Mrs. Dennis Schulist
- Kurtis Weissnat
- Nicholas Runolfsdottir V
- Glenna Reichert
- Clementina DuBuque

You should see a list of users fetched from the **API** displayed on the screen.

With this, you have successfully created a React application that demonstrates the implementation of the Axios library.