

Front-End Development Internship Assignment

Objective

Create a simple web application that displays a list of users fetched from a REST API. The application should allow the user to add a new user to the list, delete a user, and update a user's details.

Instructions

Setup and Tools: You can use any online code editor such as CodeSandbox, or set up a local development environment if you prefer. You will need the following technologies:

React.js

JavaScript

jQuery (optional, for additional DOM manipulation)

REST API (use a mock API from JSONPlaceholder)

Fetch Users List:

Use the JSONPlaceholder API to fetch a list of users.

API Endpoint: ``https://jsonplaceholder.typicode.com/users``

Display the list of users in a table format. Each row should display the user's name, email, and address.

Add a New User:

Create a form that allows the user to add a new user with fields for name, email, and address.

When the form is submitted, add the new user to the list. (For simplicity, just update the front-end; no need to send data to the actual API).

Update User Details:

Each user row should have an "Edit" button.

When the "Edit" button is clicked, allow the user to update the user's details.

Provide a "Save" button to save the updated details (again, update only the front-end).

Delete a User:

Each user row should have a "Delete" button.

When the "Delete" button is clicked, remove the user from the list.

Styling:

Apply basic styling to make the application visually appealing. You can use CSS or any CSS framework like Bootstrap.

Requirements

User List Component

Create a React component to fetch and display the list of users.

Use the `useEffect`` hook to fetch data on component mount.

Use the `useState`` hook to manage the list of users.

Form Component:

Create a React component for the form to add a new user.

Use controlled components to manage form inputs.

Event Handling:

Handle form submission to add a new user.

Handle button clicks to edit and delete users.

Optional jQuery Usage:

Use jQuery to highlight the row of the user currently being edited.

Mock Data

Use the following JSON template to create mock data if necessary:

```
[
  {
    "id": 1,
    "name": "Leanne Graham",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874"
    }
  }
]
```

```
},  
...  
]
```

Submission

Create a GitHub repository for your project.

Push your code to the repository.

Provide a README file with instructions on how to run your project.

Share the repository link once you are done.

Evaluation Criteria

Correctness and functionality of the application.

Code quality and organization.

Effective use of React hooks and state management.

Proper handling of form inputs and user events.

Visual presentation and styling.