

Exercise 2 - Promise Chaining with Multiple API Calls to JSONPlaceholder

Objective: Your task is to fetch data about users and their posts from JSONPlaceholder and display them in the provided HTML structure.

Preparation:

1. HTML and CSS have been prepared for you. Carefully observe the HTML structure and the CSS styles.
2. Study the given endpoint: `https://jsonplaceholder.typicode.com`. You will be working with two specific endpoints: `/users` and `/posts?userId=USER_ID`.

Steps:

1. Understand the HTML Structure:

- Identify the container for users (`#users`) and the structure for individual users and their posts.
- Recognize the classes and IDs used in the HTML to target specific elements with JavaScript.

2. Set Up the Base URL:

- Define a constant for the base URL.

3. Fetch Users:

- Utilize the `fetch` method to request user data from the `/users` endpoint.
- Chain a `then` method to parse the response into JSON.
- In the next `then`, iterate over the users to create and append user elements to the users' container.
- Within each user iteration, structure the inner HTML to include the user's name and email and a container for posts.
- Append this user element to the users' container.

4. Fetch Posts for Each User:

- Still inside the user iteration, chain another `fetch` call to the `/posts` endpoint with the specific user ID.

- Parse the response and then iterate over the posts for that user.
- Create a new post element for each post and structure the inner HTML to include the post's title and body.
- Append these post elements to the user's posts container.

5. Error Handling:

- Implement `catch` at the end of both fetch chains to log any errors to the console.

Guidelines:

- Keep your code clean and organized by using helper functions where appropriate.
- Ensure you understand the chaining of promises and how each `then/catch` block works in sequence.
- Test your code regularly to ensure you are retrieving and displaying the data correctly.

Challenges:

- **Challenge 1:** Add loading indicators that show while fetching data.
- **Challenge 2:** Implement a search feature to filter users by name or email.

Note:

- Use the browser's Developer Tools to debug your code and observe the network requests.