

IMY 220

Practical 6

API Calls with React

Due: Tuesday 17 September @ 8:30

The submission instructions are available on ClickUP. Any deviation from these instructions will cause 10% deduction from your mark.

Instructions

- The aim of this practical is to make API calls and render the output.
- You can use your existing React codebase for this practical since you will be required to make use of React Router to make dynamic routes.
- You will be required to make use of Asynchronous calls using the native Fetch API.
- You should also make use of components where necessary.
- For this practical, you are not allowed to write any loops. You will have to use the correct array functions to get the functionality to work. Foreach functions are not allowed. If you do not use array functions, you will receive fewer marks than what you would get if you used array functions.

You will be making use of <https://jsonplaceholder.typicode.com/>, specifically the users and posts routes. Read through the documentation clearly to ensure that you understand what each of the API requests do.

Section #1 - Posts Route

Using React Router, make a `"/posts"` route that does the following.

- If the user visits `"/posts/1"`, they should be greeted with all the posts that the user with ID 1 has.
- The URL can contain any user ID, you also need to cater if the ID does not have any posts (display a simple error message).

These do not need to have styling, default HTML elements are allowed. You will however need to use the Fetch API to make the request and display the elements.

Hint: Make a single post entry a component, go through the array and pass through the data through to this post component.

Section #2 - Base Route

Using React Router, make a base `("/")` route that does the following.

- Make a call to the `"/users"` API route, go through the responses and render all the users, displaying their name, email and ID.

- There should also be a button/link that takes you to the /posts route, passing in the user's ID.
 - For example, if a user has an ID, the button should take them to `"/posts/1"`.

Submission Files

- All files excluding your *node_modules* folder.

Submission Instructions

- ZIP all submission files (using a tool like 7Zip or WinRar) into a ZIP file called *uXXXXXXXX-P6.zip*, where uXXXXXXXX is your student number.
- Submit your ZIP file before 8:30 to avoid any late submissions.