

Coding Task - React Native

[Create a new React Native project](#) with **TypeScript** and add the following mock of an API client to the project. This client is not to be changed.

```
export type User = {
  readonly name: string,
  readonly age: number,
}

export class ApiClient {
  private static readonly users: User[] = [
    {
      name: "Matthew",
      age: 20
    },
    {
      name: "Alexander",
      age: 25
    },
    {
      name: "Samuel",
      age: 22
    },
  ];

  public static async fetchUsers(): Promise<User[]> {
    return Promise.resolve(ApiClient.users);
  }
}
```

Your tasks are:

- Create a **reusable component** that can display the data from *ApiClient.fetchUsers()* as [a table-like list](#). It should offer the functionality to be **sorted by every column provided** (so in this case name and age - but the goal is to have it work with any generic array of data). Allow the data to be **searched** for and include a **debouncing** mechanism for the search.
- Display your component on the initial page of the project and add a button somewhere for the user to **refresh the data** and implement a **caching mechanism** using [Async Storage](#), so that the data is not fetched more than **once per hour** but loaded from cache instead.
- Write a few tests to make sure your caching mechanism works as intended.

Rules & things to consider:

- We expect you to use **function components**, as well as **hooks** where it makes sense.
- Try to structure your code in a way, as if this was a real world production scenario and the data from *ApiClient.fetchUsers()* needs to be accessible by other components as well.
- Don't spend too much time on UI/Design, as it is not the focus of the task. However, try to achieve a clean look with good usability. Also, your code should be clean and well structured.