

Create a web application that fetches data from a public API and displays it in a table using TypeScript.

1. First, you need to choose a public API to fetch data from. There are many public APIs available that provide different types of data such as weather, news, sports, and more. Choose an API that provides data in a tabular format.
2. Next, create a TypeScript file, say `index.ts`, in which you will write the code to fetch data from the API and display it in a table.
3. Use the `XMLHttpRequest` object to fetch data from the API. You can also use the `fetch` API, which is available in modern browsers. Make sure to handle any errors that may occur during the fetch process.
4. Once you have retrieved the data, parse it into a JavaScript object. You can use `JSON.parse()` to parse JSON data.
5. Create an HTML table dynamically using the data you retrieved. You can create a table element and dynamically add `tr` and `td` elements to it using JavaScript.
6. Finally, append the table to the DOM so that it is visible on the webpage.

Instructions:

- Do not use any front-end library for it, It has to be TS only.
- Every point has 10 numbers so total marks for this assignment will be 60.
- If your code found out to be copied from anywhere. You will immediately be terminated from the course and permanently blacklisted from every SMIT course forever.
- Deadline for this assignment is Wednesday, 29th March - 9:00 PM sharp.
- Not submitting the assignment on time will lead to the termination from the course.