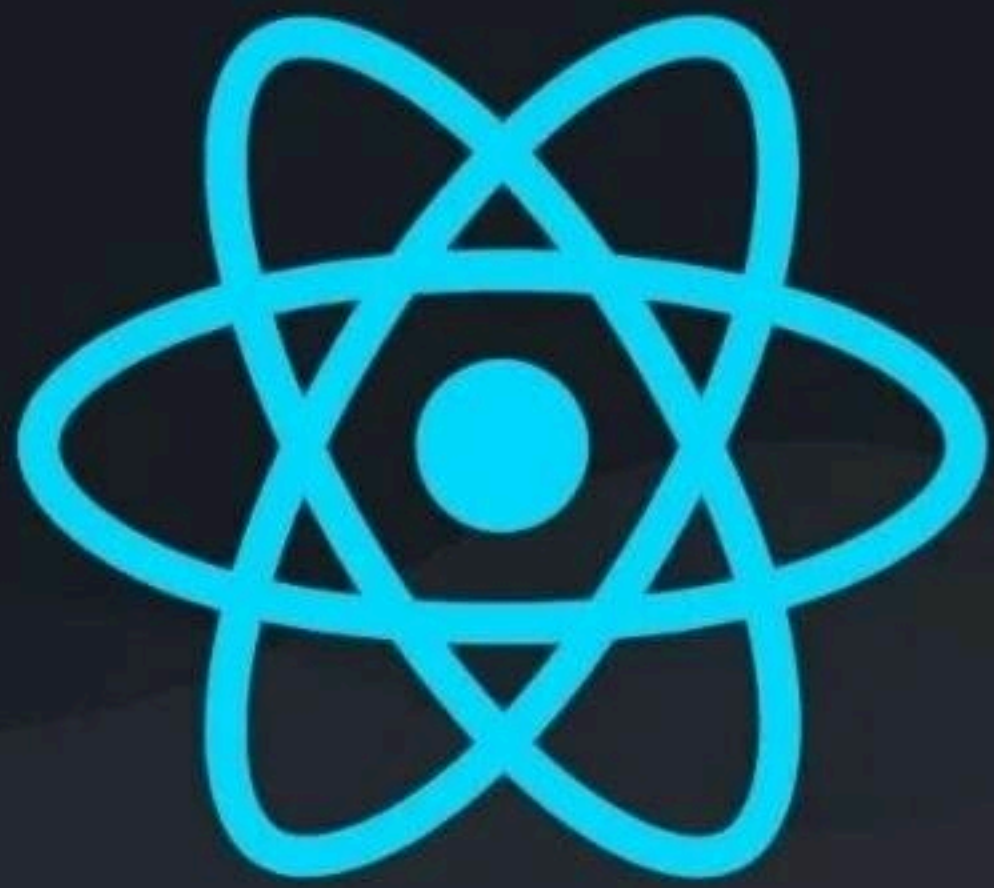
AXIOS

Axios With React JS

- Making HTTP requests
- JS library



Axios Installation

```
// Using NPM
npm install axios;

// Using YARN
yarn add axios;
```

Axios Import

```
import axios from 'axios';
```

Axios Vs fetch API

ChatGPT

Feature	Axios	Fetch API
Ease of Use	Simple API, automatic JSON parsing	Lower-level API, manual response parsing
Interceptors	Yes, built-in support	No, requires manual handling
Browser Compatibility	Browsers and Node.js	Native browser feature, requires polyfills
Size	Slightly larger	Smaller (native browser functionality)
Promises	Built on Promises	Uses Promises
Error Handling	Automatic for non-2xx status codes	Requires explicit checking of `ok` property
Request/Response	Automatic JSON parsing	Requires explicit parsing (e.g., `response.json()`)
Community & Maintenance	Actively maintained, strong community	Part of native browser API, maintained by browser vendors

What It Axios ?

axios is a popular **JavaScript library** for making **HTTP requests**, and it is often used in combination with React to **handle data fetching from APIs** or other sources.

Axios provides a **simple & consistent** interface for interacting with web servers, making it easier to send **asynchronous HTTP request**s and handle responses.

Making GET Requests

```
import axios from 'axios';

axios.get('URL')
   .then(response ⇒ {
     console.log(response.data);
   })
   .catch(error ⇒ {
     console.error(error);
   });
```

With Axios, you **only need one .then( )** block to handle the **successful response & access the data**.

The retrieved data is available in **response.data** within that block. The **.catch()** block is used for error handling.

Making POST Requests

```
import axios from "axios";

// Define headers
const headers = {
  'Content-Type': 'application/json',
  'Authorization': 'Bearer YOUR_ACCESS_TOKEN',
};

// Define data to send in the body
const dataToSend = {
  key1: 'value1',
  key2: 'value2',
};

// Make the Axios request
axios.post('URL', dataToSend, { headers })
  .then(response => {
    console.log(response.data);
  })
  .catch(error => {
    console.error(error);
  });
```

Making DELETE Requests

```
import axios from "axios";

axios
  .delete(`https://.../data/${id}`)
  .then((response) => {
    console.log(response);
  })
  .catch((error) => {
    console.error(error);
  });
```

${id} is a placeholder for the **unique** identifier of the resource you want to **delete.**

Update

Making PUT Requests

```
import axios from 'axios';

const dataToUpdate = {
  key1: "value1",
  key2: "value2"
};

axios
.put(`https:// .../data/${id}`, dataToUpdate)
.then((response) => {
  console.log(response);
})
.catch((error) => {
  console.error(error);
});
```

${id} is a placeholder for the **unique** identifier of the resource you want to **update**.