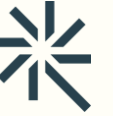


# HTTP Calls in React Using Axios

# Efficiently Fetching and Managing Data in React Applications



# Introduction to Axios. What is Axios?



- Promise-based HTTP client for the browser and Node.js
- Simplifies HTTP requests (GET, POST, PUT, DELETE, etc.)
- Supports request and response interception

# Need of Axios in React



Axios allows you to communicate with the APIs in your React project. The same tasks can also be performed by using AJAX, but Axios provide you more functionality and features and that helps you in building your application quickly.

Axios is a promise-based library, so you need to implement some promise-based asynchronous HTTP requests. jQuery and AJAX also perform the same job but in React project React handles each and everything in its own virtual DOM, so there is no need to use jQuery at all.

# Installation and Setup



- `# Install Axios using npm`
- `npm install axios`
  
- `// Import Axios in your React component`
- `import axios from 'axios';`

# Response Objects in Axios



When you send a request to the server, you receive a response object from the server with the properties given below...

- **data:** You receive data from the server in payload form. This data is returned in JSON form and parse back into a JavaScript object to you.
- **status:** You get the HTTP code returned from the server.
- **statusText:** HTTP status message returned by the server.
- **headers:** All the headers are sent back by the server.
- **config:** original request configuration.
- **request:** actual XMLHttpRequest object.

# Error Object



You will get an error object if there will be a problem with the request. Promise will be rejected with an error object with the properties given

- message: Error message text.
- response: Response object (if received).
- request: Actual XMLHttpRequest object (when running in a browser).
- config: Original request configuration.

# Features of Axios Library



- JSON data is transformed automatically.
- It transforms the request and response data.
- Useful in making HTTP requests from Node.js
- It makes XMLHttpRequests from the browser.
- Provide client-side support for protecting against XSRF.
- Supports promise API.
- Ability to cancel the request.




# Shorthand Methods in Axios



Below are some shorthand methods of Axios...

- `axios.request(config)`
- `axios.head(url[, config])`
- `axios.get(url[, config])`
- `axios.post(url[, data[, config]])`
- `axios.put(url[, data[, config]])`
- `axios.delete(url[, config])`
- `axios.options(url[, config])`
- `axios.patch(url[, data[, config]])`



# The *shift* begins with

*you*  
Trainer name

Trainer

*Assistant name*

Assistant

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