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# React + Axios - HTTP POST Request Examples

Below is a quick set of examples to show how to send HTTP POST requests from React to a backend API using the `axios` HTTP client which is available on npm.

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- **Axios:** GET, POST, PUT, DELETE
- **Fetch:** GET, POST, PUT, DELETE

## Installing axios from npm

With the npm CLI: `npm install axios`

With the yarn CLI: `yarn add axios`

## Simple POST request with a JSON body using axios

This sends an HTTP POST request to the [Reqres](#) api which is a fake online REST api that includes a generic `/api/<resource>` route that responds to `POST` requests for any `<resource>` with the contents of the post body and a dynamic id property. This example sends an `article` object to the `/api/articles` route and then assigns the id from the response to the react component

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state property `articleId` so it can be displayed in the component `render()` method.

```
1  componentDidMount() {  
2    // Simple POST request with a JSON body using axios  
3    const article = { title: 'React POST Request Example'  
4    axios.post('https://reqres.in/api/articles', article)  
5      .then(response => this.setState({ articleId: resp  
6  }
```

Example React component at <https://stackblitz.com/edit/react-http-post-request-examples-axios?file=App/PostRequest.jsx>

## POST request using axios with React hooks

This sends the same POST request from React using axios, but this version uses React hooks from a function component instead of lifecycle methods from a traditional React class component.

The `useEffect` React hook replaces the `componentDidMount` lifecycle method to make the HTTP POST request when the component loads.

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The second parameter to the `useEffect` React hook is an array of dependencies that determines when the hook is run, passing an empty array causes the hook to only be run once when the component first loads, like the `componentDidMount` lifecycle method in a class component. For more info on React hooks see <https://reactjs.org/docs/hooks-intro.html>.

```
1  useEffect(() => {  
2    // POST request using axios inside useEffect React hook  
3    const article = { title: 'React Hooks POST Request Example' };  
4    axios.post('https://reqres.in/api/articles', article)  
5      .then(response => setArticleId(response.data.id))  
6  }  
7  // empty dependency array means this effect will only run once  
8  }, []);
```

Example React hooks component at

<https://stackblitz.com/edit/react-http-post-request-examples-axios?file=App/PostRequestHooks.jsx>

# POST request using axios with async/await

This sends the same POST request from React using axios, but this version uses an `async` function and the `await` javascript expression to wait for the promises to return (instead of using the promise `then()` method as above).

```
1  async componentDidMount() {  
2    // POST request using axios with async/await  
3    const article = { title: 'React POST Request Example'  
4    const response = await axios.post('https://reqres.in/  
5    this.setState({ articleId: response.data.id });  
6  }
```

Example React component at <https://stackblitz.com/edit/react-http-post-request-examples-axios?file=App/PostRequestAsyncAwait.jsx>

# POST request using axios with error handling

This sends a POST request from React using axios to an invalid url on the api then assigns the error message to the `errorMessage` component state property and logs the error to the console.

```
1  componentDidMount() {  
2    // POST request using axios with error handling  
3    const article = { title: 'React POST Request Example'  
4    axios.post('https://reqres.in/invalid-url', article)  
5      .then(response => this.setState({ articleId: resp  
6      .catch(error => {  
7        this.setState({ errorMessage: error.message }  
8        console.error('There was an error!', error);  
9      });  
10 }
```

Example React component at <https://stackblitz.com/edit/react-http-post-request-examples-axios?file=App/PostRequestErrorHandling.jsx>

## POST request using axios with set HTTP headers

This sends the same POST request again from React using axios with a couple of headers set, the HTTP `Authorization` header and a custom header `My-Custom-Header`.

```
1  componentDidMount() {  
2    // POST request using axios with set headers  
3    const article = { title: 'React POST Request Example'  
4    const headers = {  
5      'Authorization': 'Bearer my-token',  
6      'My-Custom-Header': 'foobar'  
7    };  
8    axios.post('https://reqres.in/api/articles', article,  
9      .then(response => this.setState({ articleId: resp  
10  }
```

Example React component at <https://stackblitz.com/edit/react-http-post-request-examples-axios?file=App/PostRequestSetHeaders.jsx>

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I'm currently attempting to travel around Australia by motorcycle with my wife Tina on a pair of Royal Enfield Himalayans. You can follow our adventures on YouTube, Instagram and Facebook.



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## ABOUT

I'm a web developer in Sydney Australia and co-founder of [Point Blank Development](#), I've been building websites and web applications in Sydney since 1998.

Other than coding, I'm currently attempting to travel around Australia by motorcycle with my wife Tina, you can follow our adventure on [YouTube](#) and [Instagram](#).

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