



WHAT IS AXIOS?

WHY WE NEED AXIOS?

**HOW TO FETCH DATA
USING AXIOS?**

MISTAKES TO AVOID

MY FAVOURITE TRICK



WHAT IS AXIOS?

-  **Axios is a package used to make HTTP requests (calling an API) from the browser in an easy and better way.**
-  **We can say, Axios is the upgraded version of Fetch method.**
-  **Almost 70% of React users use Axios to make HTTP requests for backend like NodeJS.**

ADVANTAGES OF USING AXIOS

 By default **use JSON format**

 **Need to use only one then()**

 **Provides all types of HTTP methods**

 **Better error handling**



[View key concept](#)



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dummyJSON

DummyJSON

Get dummy/fake JSON data to use as placeholder in development or in prototype testing.

[View on GitHub](#)

[Read Docs](#)

```
{  
    "id": 8,  
    "title": "Microsoft Surface Laptop 4",  
    "description": "Style and speed. Stand out on ...",  
    "price": 1499,  
    "discountPercentage": 10.23,  
    "rating": 4.43,  
    "stock": 68,  
    "brand": "Microsoft Surface",  
    "category": "laptops",  
    "thumbnail": "https://dummyjson.com/image/i/products/8/thumbna  
    "images": [  
        "https://dummyjson.com/image/i/products/8/1.jpg",  
        "https://dummyjson.com/image/i/products/8/2.jpg",  
        "https://dummyjson.com/image/i/products/8/3.jpg",  
        "https://dummyjson.com/image/i/products/8/4.jpg",  
        "https://dummyjson.com/image/i/products/8/thumbnail.jpg"  
    ]  
}
```

Microsoft Surface Laptop 4 — laptops

1499\$ — 14.23%

DUMMYJSON.COM

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The screenshot shows a Visual Studio Code interface with a dark theme. The Explorer sidebar on the left displays a project structure for a React application named '06_CODE'. The 'src' folder contains files like App.css, App.js, index.css, index.js, and reportWebVitals.js. The terminal at the bottom shows a command being run: 'PS C:\Users\Admin\Documents\Code Bless You\0P25_AXIOS IN REACT\01_PROJECTS\06_CODE> npm i axios'. The main code editor window shows the contents of 'App.js':

```
src > JS App.js > [e] default
1 import React from "react";
2
3 const App = () => {
4     return <div>App</div>;
5 }
6
7 export default App;
8
```

App.js - 06_CODE - Visual Studio Code

```
1 import React, { useEffect } from "react";
2 import axios from "axios";
3
4 const App = () => {
5     useEffect(() => {
6         axios
7             .get("https://dummyjson.com/products")
8             .then(response) => console.log(response));
9     }, []);
10    return <div>App</div>;
11};
12
13 export default App;
14
```



App.js



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• App.js - 06_CODE - Visual Studio Code

```
1 import React, { useEffect, useState } from "react";
2 import axios from "axios";
3
4 const App = () => {
5     const [products, setProducts] = useState([])
6     useEffect(() => {
7         axios
8             .get("https://dummyjson.com/products")
9             .then(response) => setProducts(response.data.products));
10    }, []);
11    return <>
12        {
13            products.map((product, index) => {
14                return <h3 key={index}>{product.title} - ${product.price}</h3>
15            })}
16    </>;
17}
18 export default App;
```

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App.js - 06_CODE - Visual Studio Code

```
src > App.js > App > products.map() callback
1 import React, { useEffect, useState } from "react";
2 import axios from "axios";
3
4 const App = () => {
5     const [products, setProducts] = useState([]);
6     useEffect(() => {
7         axios
8             .get("https://dummyjson.com/products")
9             .then((response) => setProducts(response.data.products));
10    }, []);
11    return (
12        <>
13            {products.map((product, index) => {
14                return (
15                    <h3 key={index}>
16                        {product.title} - ${product.price}
17                    </h3>
18                );
19            })}
20        </>
21    );
22}
```

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iPhone 9 - \$549

iPhone X - \$899

Samsung Universe 9 - \$1249

OPPOF19 - \$280

Huawei P30 - \$499

MacBook Pro - \$1749

Samsung Galaxy Book - \$1499

Microsoft Surface Laptop 4 - \$1499

Infinix INBOOK - \$1099

HP Pavilion 15-DK1056WM - \$1099

perfume Oil - \$13

Brown Perfume - \$40

Ega Scent Xnpresso Perfume - \$13

• App.js - 06_CODE - Visual Studio Code

```
src > App.js > [e] App > useEffect() callback
```

```
1
2
3
4 const App = () => {
5     const [products, setProducts] = useState([]);
6     const [error, setError] = useState("");
7     useEffect(() => {
8         axios
9             .get("https://dummyjson.com/products")
10            .then((response) => setProducts(response.data.products))
11            .catch((error) => setError(error.message));
12     }, []);
13     return (
14         <>
15             {error !== "" && error}
16             {products.map((product, index) => {
17                 return (
18                     <h3 key={index}>
19                         {product.title} - ${product.price}
20                     </h3>
21                 )
22             })}
23         </>
24     );
25 }
26
27 export default App;
```

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axios.js - 06_CODE - Visual Studio Code

The screenshot shows a dark-themed instance of Visual Studio Code. The title bar indicates the file is 'axios.js' from '06_CODE'. The code editor displays the following JavaScript code:

```
1 import axios from "axios";
2
3 const instance = axios.create({
4   baseURL: "https://dummyjson.com",
5 });
6
7 export default instance;
8
```

The code uses the `axios.create()` method to create an instance of the `axios` object. It sets the `baseURL` to `"https://dummyjson.com"`. The code is annotated with line numbers (1 through 8) and includes a final `export default instance;` statement.

• App.js - 06_CODE - Visual Studio Code

```
src > App.js > ...
1 import React, { useEffect, useState } from "react";
2 import axios from './axios'
3
4 const App = () => {
5     const [products, setProducts] = useState([]);
6     const [error, setError] = useState("");
7     useEffect(() => {
8         axios
9             .get("/products")
10            .then((response) => setProducts(response.data.products))
11            .catch((error) => setError(error.message));
12    }, []);
13    return (
14        <>
15            {error !== "" && error}
16            {products.map((product, index) => {
17                return (
18                    <h3 key={index}>
```

App.js - 06_CODE - Visual Studio Code

```
src > App.js > App > getProducts
  7   useEffect(() => {
  8     getProducts();
  9     // axios
 10    //   .get("/products")
 11    //   .then((response) => setProducts(response.data.products))
 12    //   .catch((error) => setError(error.message));
 13  }, []);
 14
 15  async function getProducts() {
 16    const response = await axios.get("/products");
 17    console.log(response);
 18    setProducts(response.data.products);
 19  }
 20  return (
 21    <>
 22      {error !== "" && error}
 23      {products.map((product, index) => {
 24        return (
```

• App.js - 06_CODE - Visual Studio Code

```
src > App.js > App > getProducts
  10      // .get('/products')
  11      // .then((response) => setProducts(response.data.products))
  12      // .catch((error) => setError(error.message));
  13  }, []);

15  async function getProducts() {
16    try {
17      const response = await axios.get("/products");
18      console.log(response);
19      setProducts(response.data.products);
20    } catch (error) {
21      setError(error.message)
22    }
23  }
24  return (
25    <>
26      {error !== "" && error}
27      {products.map((product, index) => {
28        return (

```