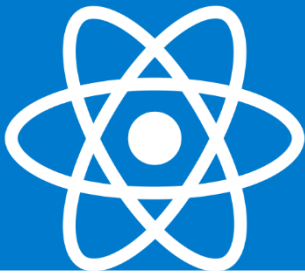


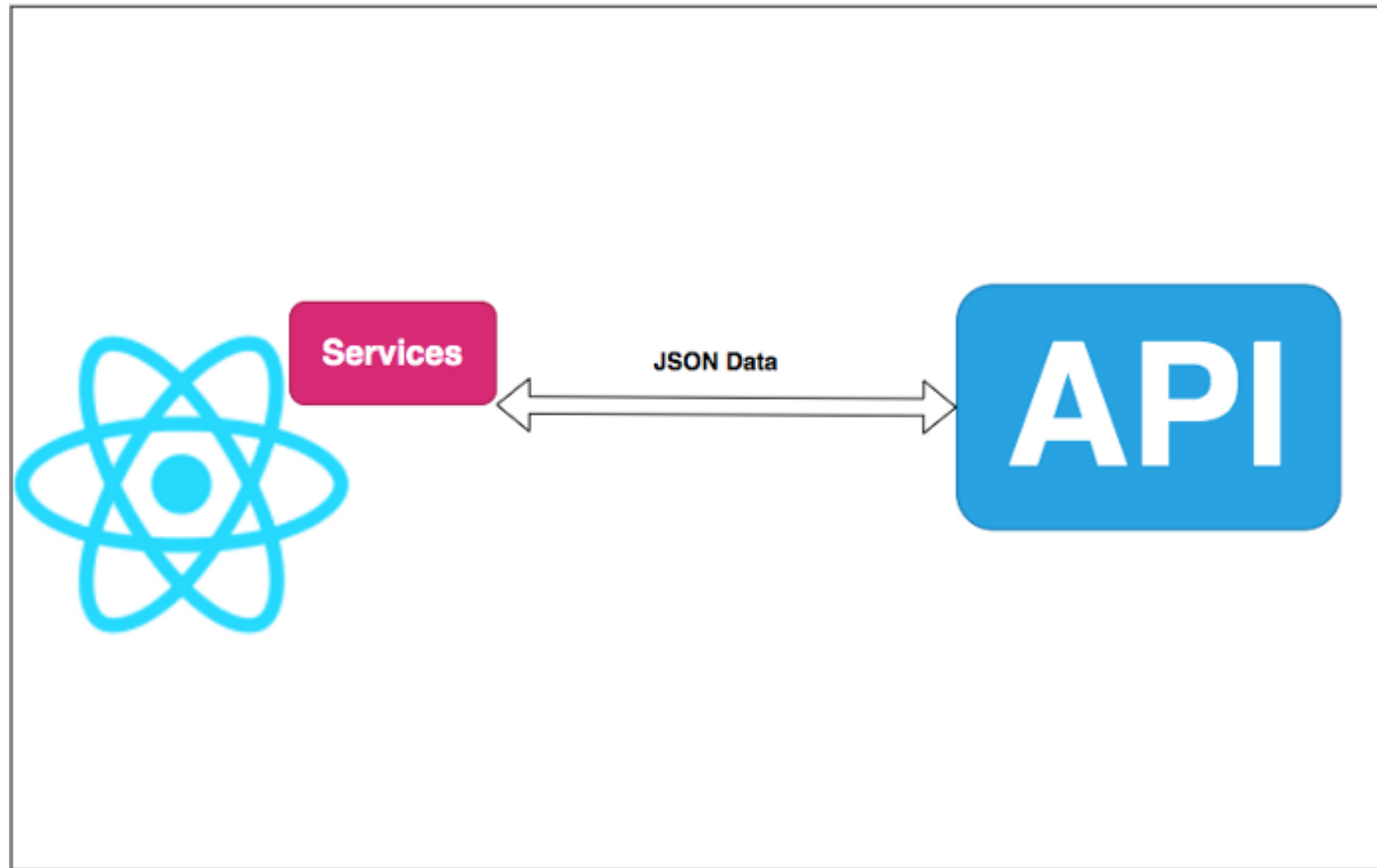


React JS

#React Notes

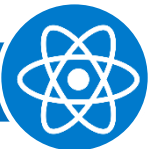
| Axios





What is Axios ?

- Axios is a Javascript library used to make HTTP requests and it supports the Promise API that is native to JS ES6.
- If you are using React Fetch to make HTTP API calls in React then Axios is the other option that you can explore.
- You can make any HTTP calls using Axios in React.

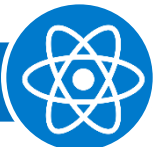


Con.

- Similar to fetch, Axios also provides you the facility to call GET, POST, PUT, PATCH, and DELETE requests.
- Axios also has more options and features to call the API as compared to fetch. One feature you can see in one sight is that it performs automatic transforms of JSON data.
- If you use .fetch() there is a two-step process when handling JSON data.



Axios	Fetch
Axios has url in request object.	Fetch has no url in request object.
Axios is a stand-alone third party package that can be easily installed.	Fetch is built into most modern browsers; no installation is required as such.
Axios enjoys built-in XSRF protection.	Fetch does not.
Axios uses the data property.	Fetch uses the body property.
Axios' data contains the object.	Fetch's body has to be stringified.
Axios request is ok when status is 200 and statusText is 'OK'.	Fetch request is ok when response object contains the ok property.
Axios performs automatic transforms of JSON data.	Fetch is a two-step process when handling JSON data- first, to make the actual request; second, to call the .json() method on the response.
Axios allows cancelling request and request timeout.	Fetch does not.
Axios has the ability to intercept HTTP requests.	Fetch, by default, doesn't provide a way to intercept requests.
Axios has built-in support for download progress.	Fetch does not support upload progress.
Axios has wide browser support.	Fetch only supports Chrome 42+, Firefox 39+, Edge 14+, and Safari 10.1+ (This is known as Backward Compatibility).

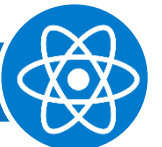


Basic Network Call using Axios

- Here is a small code snippet showing how to use Axios in the React Native project for the HTTP request. Here you can see that we have used axios with the get request with the 'WEB URL' and after that getting the response in a function using a callback.
- You will find a catch attached to it which will trigger a function in case of any failure.
- There is an additional finally callback which will trigger a function after the completion of API call.

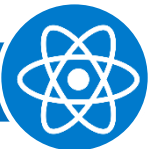
```
axios.get('Web URL')
  .then(function(response) {
    // handle response

  }).catch(function(error) {
    // handle error
  }).finally(function() {
    // always executes at the last of any API call
  });
```



Website

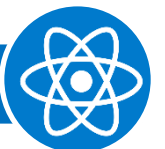
- <https://www.npmjs.com/package/axios>
- <https://axios-http.com/docs/intro>



Get Method with Parameters (QueryString)

```
// Make a request for a user with a given ID
axios.get('/user?ID=12345')
  .then(function (response) {
    // handle success
    console.log(response);
  })
  .catch(function (error) {
    // handle error
    console.log(error);
  })
  .finally(function () {
    // always executed
  });
```

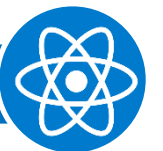
```
// Optionally the request above could also be done as
axios.get('/user', {
  params: {
    ID: 12345
  }
})
  .then(function (response) {
    console.log(response);
  })
  .catch(function (error) {
    console.log(error);
  })
  .finally(function () {
    // always executed
  });
```



Performing multiple concurrent requests

Performing multiple concurrent requests

```
function getUserAccount() {  
  return axios.get('/user/12345');  
}  
  
function getUserPermissions() {  
  return axios.get('/user/12345/permissions');  
}  
  
Promise.all([getUserAccount(), getUserPermissions()])  
  .then(function (results) {  
    const acct = results[0];  
    const perm = results[1];  
  });
```



Post API Using Parameter (Body Data)

Performing a `POST` request

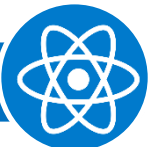
```
axios.post('/user', {
  firstName: 'Fred',
  lastName: 'Flintstone'
})
.then(function (response) {
  console.log(response);
})
.catch(function (error) {
  console.log(error);
});
```

axios API

Requests can be made by passing the relevant config to `axios`.

`axios(config)`

```
// Send a POST request
axios({
  method: 'post',
  url: '/user/12345',
  data: {
    firstName: 'Fred',
    lastName: 'Flintstone'
  }
});
```



Post API Form Data with Body Parameter

Using `multipart/form-data` format

FormData

To send the data as a `multipart/formdata` you need to pass a `formData` instance as a payload. Setting the `Content-Type` header is not required as Axios guesses it based on the payload type.

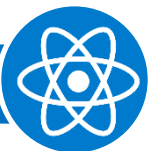
```
const formData = new FormData();  
formData.append('foo', 'bar');  
  
axios.post('https://httpbin.org/post', formData);
```



Install Axios

cmd C:\Windows\system32\cmd.exe

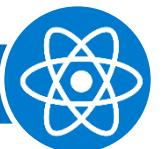
```
D:\lecture\my-react-app>npm install axios --save
```



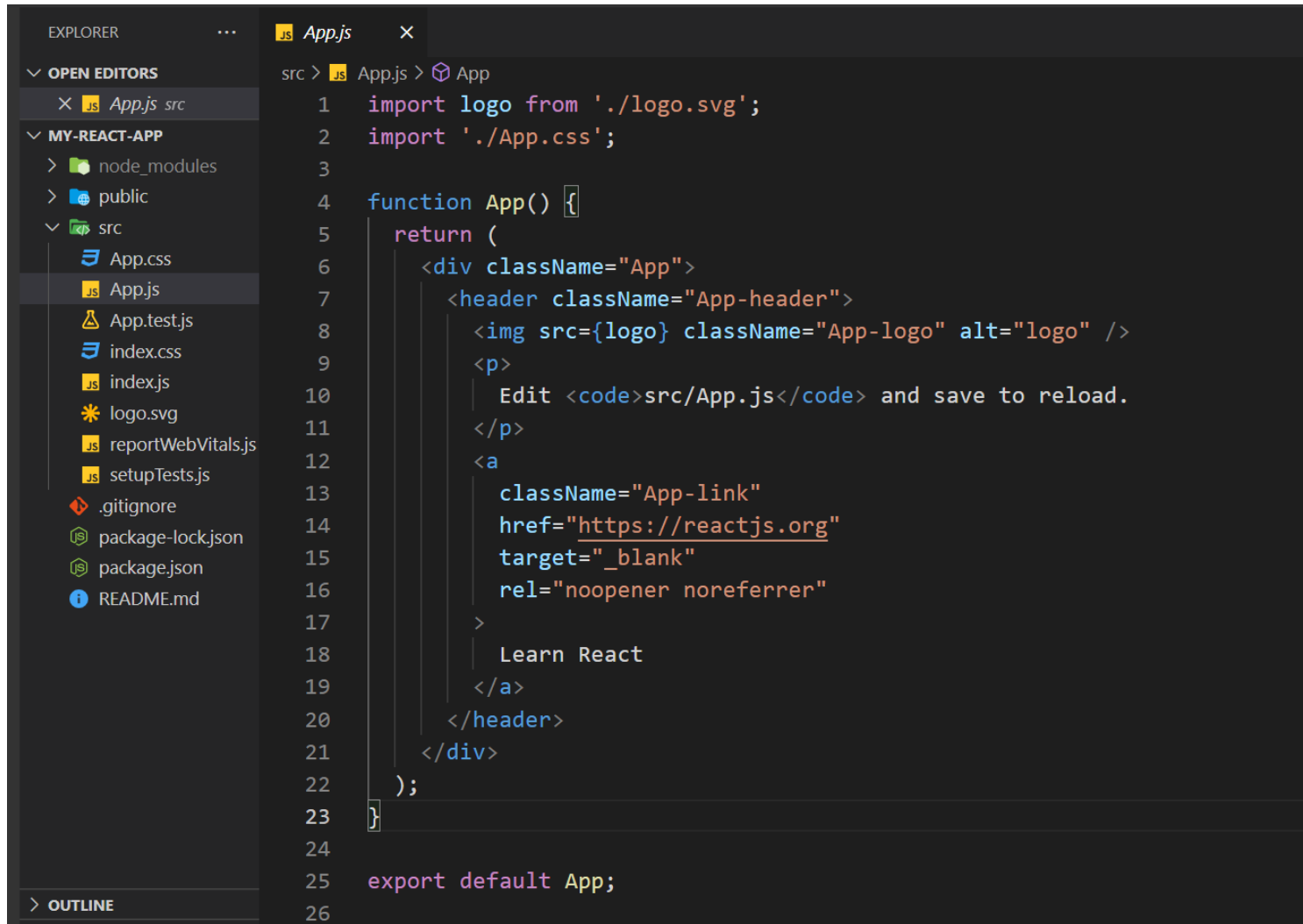
API Data

- URL : <https://jsonplaceholder.typicode.com/users>
- Method : Get
- Response : Array

```
1 // 20210824144408
2 // https://jsonplaceholder.typicode.com/users
3
4 [
5   {
6     "id": 1,
7     "name": "Leanne Graham",
8     "username": "Bret",
9     "email": "Sincere@april.biz",
10    "address": {
11      "street": "Kulas Light",
12      "suite": "Apt. 556",
13      "city": "Gwenborough",
14      "zipcode": "92998-3874",
15      "geo": {
16        "lat": "-37.3159",
17        "lng": "81.1496"
18      }
19    },
20    "phone": "1-770-736-8031 x56442",
21    "website": "hildegard.org",
22    "company": {
23      "name": "Romaguera-Crona",
24      "catchPhrase": "Multi-layered client-server neural-net",
25      "bs": "harness real-time e-markets"
26    }
27  }
28 ]
```

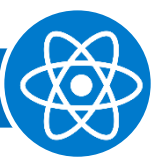


Default Code



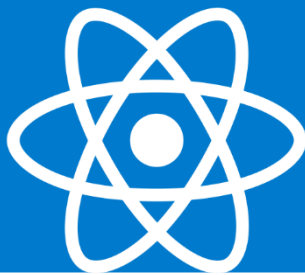
The screenshot shows the VS Code editor interface. On the left, the Explorer sidebar displays the project structure under 'MY-REACT-APP'. The 'src' directory is expanded, showing files like App.css, App.js (selected), App.test.js, index.css, index.js, logo.svg, reportWebVitals.js, and setupTests.js. The main editor area shows the content of App.js with the following code:

```
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <header className="App-header">
8         <img src={logo} className="App-logo" alt="logo" />
9         <p>
10           Edit <code>src/App.js</code> and save to reload.
11         </p>
12         <a
13           className="App-link"
14           href="https://reactjs.org"
15           target="_blank"
16           rel="noopener noreferrer"
17         >
18           Learn React
19         </a>
20       </header>
21     </div>
22   );
23 }
24
25 export default App;
```



API Calling in React

Fetch Data and Display in React



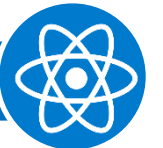
Get API call & print Response in console

JS App.js M X

src > JS App.js > [🔗] default

```
1  import React from 'react';
2  import axios from 'axios';
3  class App extends React.Component {
4    constructor(props) {
5      super(props);
6      this.state = { };
7    }
8    componentDidMount() {
9      axios.get('https://jsonplaceholder.typicode.com/users')
10     .then(res=>{
11       console.warn(res);
12     })
13   }
14   render() {
15     return (
16       <div>
17         <h1>Axios Get API Call</h1>
18       </div>
19     );
20   }
21 }
22 export default App;
```

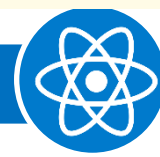
```
import React from 'react';
import axios from 'axios';
class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = { };
  }
  componentDidMount() {
    axios.get('https://jsonplaceholder.typicode.com/users')
      .then(res=>{
        console.warn(res);
      })
  }
  render() {
    return (
      <div>
        <h1>Axios Get API Call</h1>
      </div>
    );
  }
}
export default App;
```



Axios Get API Call

react_devtools_backend.js:2655

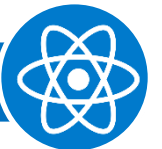
```
▼ {data: Array(10), status: 200, statusText: 'OK', headers: AxiosHeaders, config: {...}, ...} ⓘ  
  ► config: {transitional: {...}, adapter: Array(2), transformRequest: Array(1), transformResponse: Array(1), timeout: 0, ...}  
  ▼ data: Array(10)  
    ► 0: {id: 1, name: 'Leanne Graham', username: 'Bret', email: 'Sincere@april.biz', address: {...}, ...}  
    ► 1: {id: 2, name: 'Ervin Howell', username: 'Antonette', email: 'Shanna@melissa.tv', address: {...}, ...}  
    ► 2: {id: 3, name: 'Clementine Bauch', username: 'Samantha', email: 'Nathan@yesenia.net', address: {...}, ...}  
    ► 3: {id: 4, name: 'Patricia Lebsack', username: 'Karianne', email: 'Julianne.OConner@kory.org', address: {...}, ...}  
    ► 4: {id: 5, name: 'Chelsey Dietrich', username: 'Kamren', email: 'Lucio_Hettinger@annie.ca', address: {...}, ...}  
    ► 5: {id: 6, name: 'Mrs. Dennis Schulist', username: 'Leopoldo_Corkery', email: 'Karley_Dach@jasper.info', address: {...}, ...}  
    ► 6: {id: 7, name: 'Kurtis Weissnat', username: 'Elwyn.Skiles', email: 'Telly.Hoeger@billy.biz', address: {...}, ...}  
    ► 7: {id: 8, name: 'Nicholas Runolfsson', username: 'Maxime_Nienow', email: 'Sherwood@rosamond.me', address: {...}, ...}  
    ► 8: {id: 9, name: 'Glenn Reichert', username: 'Delphine', email: 'Chaim_McDermott@dana.io', address: {...}, ...}  
    ► 9: {id: 10, name: 'Clementina DuBuque', username: 'Moriah.Stanton', email: 'Rey.Padberg@karina.biz', address: {...}, ...}  
    length: 10  
    [[Prototype]]: Array(0)
```



Fetch & Assign Data to State

```
Js App.js M X
src > Js App.js > [🔗] default
1  import React from 'react';
2  import axios  from 'axios';
3  class App extends React.Component {
4    constructor(props) {
5      super(props);
6      this.state = { mydata : [] };
7    }
8    componentDidMount() {
9      axios.get('https://jsonplaceholder.typicode.com/users')
10     .then(res=>{
11       console.warn(res);
12       this.setState({mydata: res.data})
13     })
14   }
15   render() {
16     return (
17       <div>
18         <h1>Axios Get API Call</h1>
19       </div>
20     );
21   }
22 }
23 export default App;
```

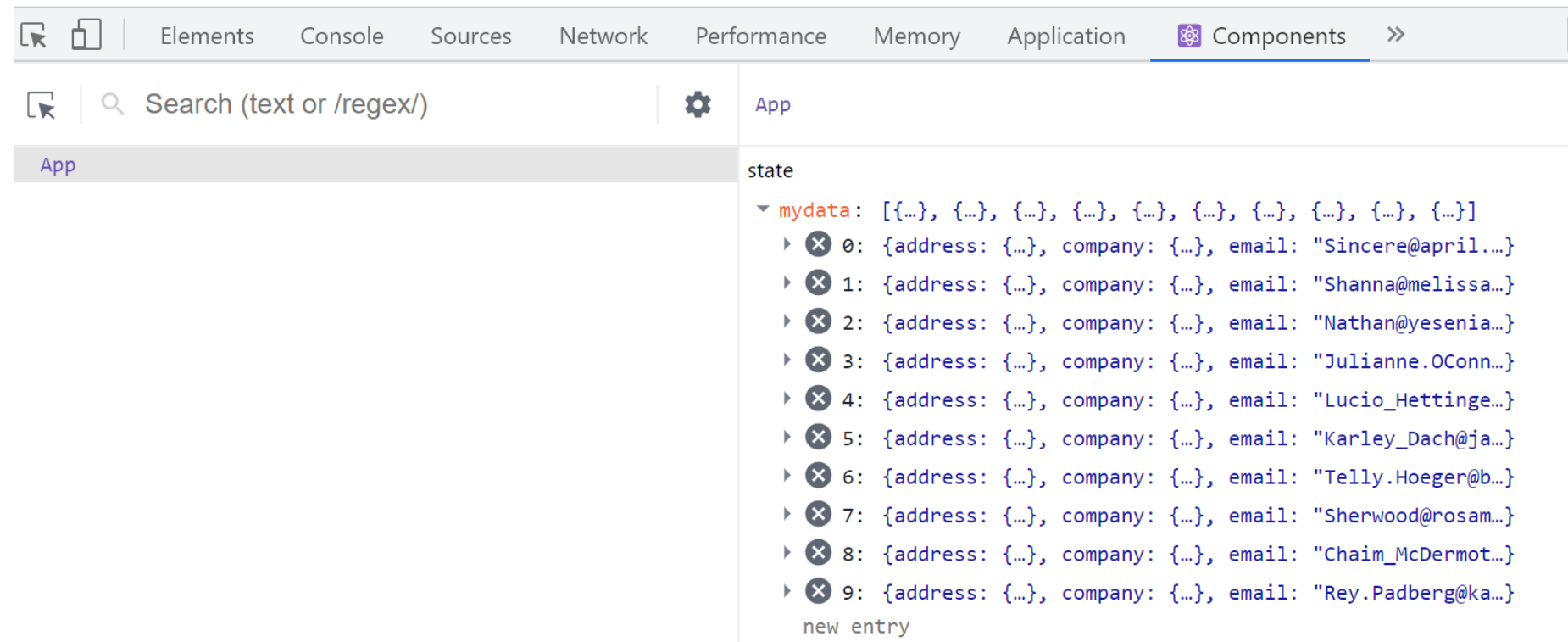
```
import React from 'react';
import axios  from 'axios';
class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = { mydata : [] };
  }
  componentDidMount() {
    axios.get('https://jsonplaceholder.typicode.com/users')
      .then(res=>{
        console.warn(res);
        this.setState({mydata: res.data})
      })
  }
  render() {
    return (
      <div>
        <h1>Axios Get API Call</h1>
      </div>
    );
  }
}
export default App;
```



Debug Data React Developer Tool

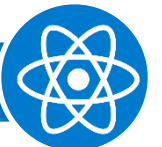
localhost:3000

Axios Get API Call



The screenshot shows the React DevTools interface with the Components panel selected. The component tree shows 'App' as the root component. The state of 'App' is expanded, showing a 'state' object with a 'mydata' array. The array contains 10 objects, each with 'address', 'company', and 'email' properties. The first object has email 'Sincere@april...', the second 'Shanna@melissa...', and the tenth 'Rey.Padberg@ka...'. A 'new entry' label is visible at the bottom of the array.

```
state
└─ mydata: [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
  └─ 0: {address: {...}, company: {...}, email: "Sincere@april..."}
  └─ 1: {address: {...}, company: {...}, email: "Shanna@melissa..."}
  └─ 2: {address: {...}, company: {...}, email: "Nathan@yesenia..."}
  └─ 3: {address: {...}, company: {...}, email: "Julianne.OConn..."}
  └─ 4: {address: {...}, company: {...}, email: "Lucio_Hettinge..."}
  └─ 5: {address: {...}, company: {...}, email: "Karley_Dach@ja..."}
  └─ 6: {address: {...}, company: {...}, email: "Telly.Hoeger@b..."}
  └─ 7: {address: {...}, company: {...}, email: "Sherwood@rosam..."}
  └─ 8: {address: {...}, company: {...}, email: "Chaim_McDermot..."}
  └─ 9: {address: {...}, company: {...}, email: "Rey.Padberg@ka..."}
  new entry
```

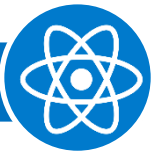


Print JSON as String

```
1 import React from 'react';
2 import axios from 'axios';
3 class Add extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = { mydata:[] };
7   }
8   componentDidMount() {
9     axios.get("https://jsonplaceholder.typicode.com/users")
10    .then(res=>{
11      const a = res.data;
12      this.setState({ mydata:a});
13    })
14  }
15  render() {
16    return (
17      <>
18      {JSON.stringify(this.state.mydata)}
19      </>
20    );
21  }
22 }
23 export default Add;
```



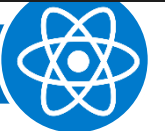
The screenshot shows a web browser window displaying a JSON array of user data. The data is a list of 10 user objects, each containing fields like id, name, username, email, address, phone, website, and company. The JSON is formatted with syntax highlighting and is displayed in a monospace font.



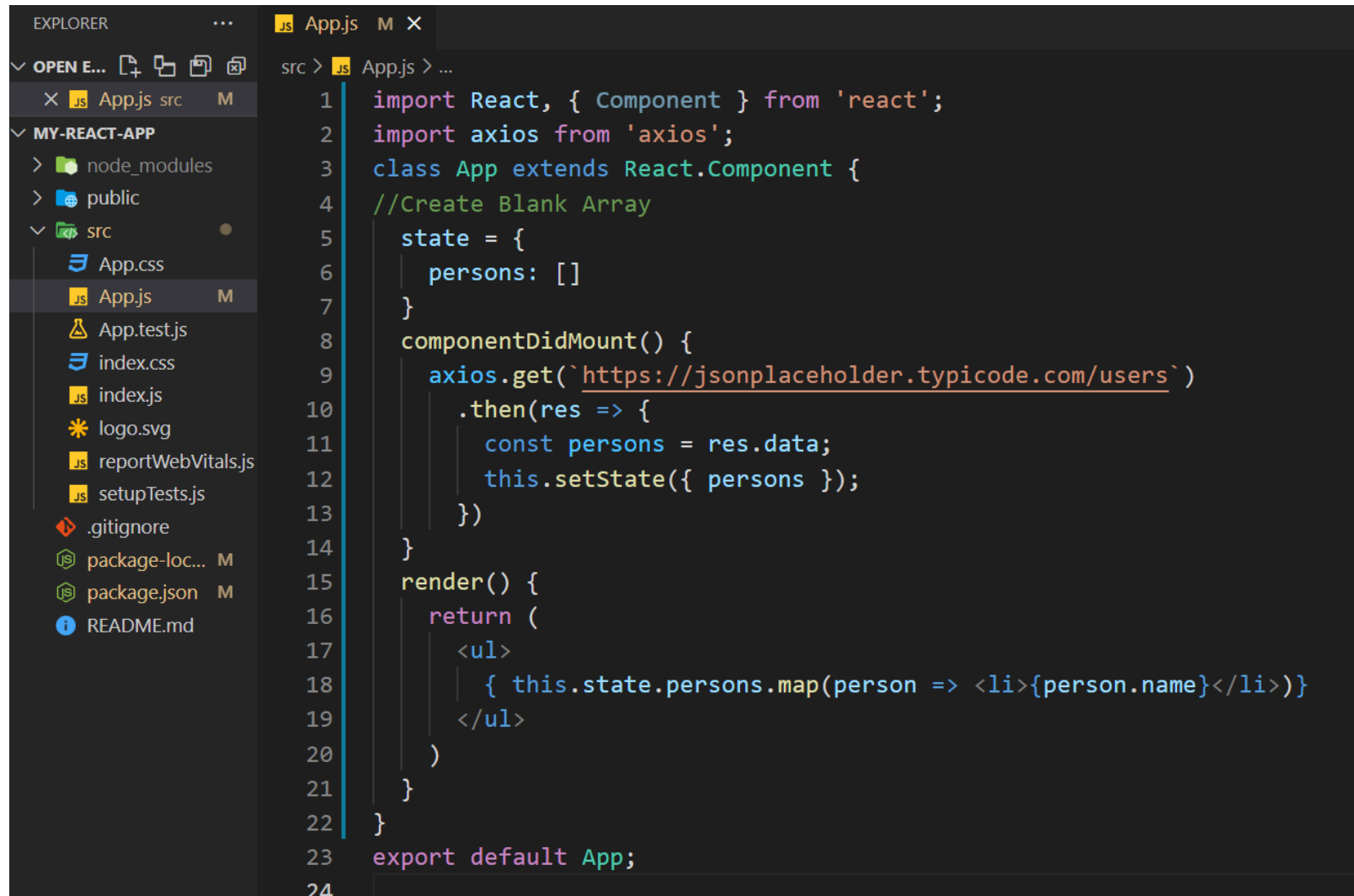
Fetch vs Axios

```
1 import React from 'react'
2 class App extends React.Component {
3   constructor(props) {
4     super(props);
5     this.state = {
6       mydata : [] //Blank Array
7     };
8   }
9   componentDidMount(){
10    fetch('https://jsonplaceholder.typicode.com/users')
11    .then(response => response.json())
12    .then(response =>{
13      this.setState({mydata: response}); //JSON Response assign in Array
14    });
15  }
16  render() {
17    return (
18      <div>
19        Api Call <br/>
20        /* Print Array Data using Map */
21        {this.state.mydata.map(values => (
22          <li>Name : {values.name} | Email :{values.email} </li>
23        ))}
24      </div>
25    );
26  }
27 }
28 export default App;
```

```
App.js M X
src > JS App.js > ...
1 import React, { Component } from 'react';
2 import axios from 'axios';
3 class App extends React.Component {
4   //Create Blank Array
5   state = {
6     persons: []
7   }
8   componentDidMount() {
9     axios.get(`https://jsonplaceholder.typicode.com/users`)
10    .then(res => {
11      const persons = res.data;
12      this.setState({ persons });
13    })
14  }
15  render() {
16    return (
17      <ul>
18        { this.state.persons.map(person => <li>{person.name}</li>)}
19      </ul>
20    )
21  }
22 }
23 export default App;
```

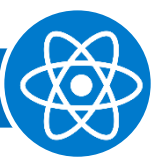


Load Data Using Get Method

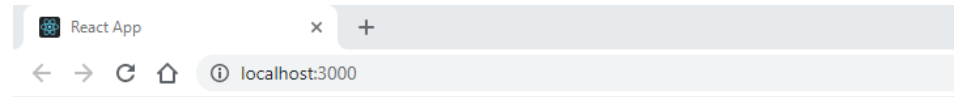


The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project named 'MY-REACT-APP' with a 'src' directory containing 'App.css', 'App.js', 'App.test.js', 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', '.gitignore', 'package-lock.json', 'package.json', and 'README.md'. The code editor shows the 'App.js' file with the following code:

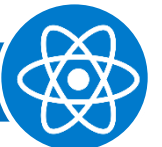
```
1 import React, { Component } from 'react';
2 import axios from 'axios';
3 class App extends React.Component {
4   //Create Blank Array
5   state = {
6     persons: []
7   }
8   componentDidMount() {
9     axios.get(`https://jsonplaceholder.typicode.com/users`)
10      .then(res => {
11        const persons = res.data;
12        this.setState({ persons });
13      })
14   }
15   render() {
16     return (
17       <ul>
18         { this.state.persons.map(person => <li>{person.name}</li>)}
19       </ul>
20     )
21   }
22 }
23 export default App;
```



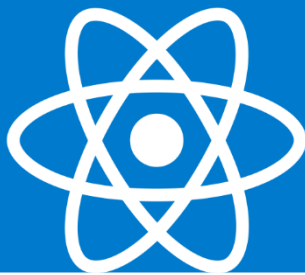
Output



- Leanne Graham
- Ervin Howell
- Clementine Bauch
- Patricia Lebsack
- Chelsey Dietrich
- Mrs. Dennis Schulist
- Kurtis Weissnat
- Nicholas Runolfsdottir V
- Glenna Reichert
- Clementina DuBuque



| Api with Object Array

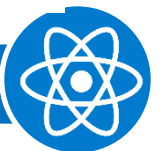


API with Object

- URL : <https://dummyjson.com/products>
- Method : Get
- Response : Object[Array]

```
// 20221119130122
// https://dummyjson.com/products

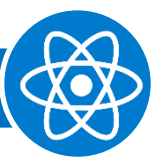
{
  "products": [
    {
      "id": 1,
      "title": "iPhone 9",
      "description": "An apple mobile which is nothing like apple",
      "price": 549,
      "discountPercentage": 12.96,
      "rating": 4.69,
      "stock": 94,
      "brand": "Apple",
      "category": "smartphones",
      "thumbnail": "https://i.dummyjson.com/data/products/1/thumbnail.jpg",
      "images": [
        "https://i.dummyjson.com/data/products/1/1.jpg",
        "https://i.dummyjson.com/data/products/1/2.jpg",
        "https://i.dummyjson.com/data/products/1/3.jpg",
        "https://i.dummyjson.com/data/products/1/4.jpg",
        "https://i.dummyjson.com/data/products/1/thumbnail.jpg"
      ]
    },
    {
      "id": 2,
```



Object Array API

```
JS App.js M X
src > JS App.js > [default]
1 import axios from "axios";
2 import React from 'react'
3 class App extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = { mydata:[] };
7   }
8   componentDidMount() {
9     axios.get("https://dummyjson.com/products")
10    .then((result) => {
11      console.table(result.data.products);
12    }).catch((err) => {
13      console.warn("Error in API Calling" + err.message);
14    });
15  }
16  render() {
17    return (
18      <div>
19        <h1>API Call </h1>
20      </div>
21    );
22  }
23 }
24 export default App;
```

```
import axios from "axios";
import React from 'react'
class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = { mydata:[] };
  }
  componentDidMount() {
    axios.get("https://dummyjson.com/products")
    .then((result) => {
      console.table(result.data.products);
    }).catch((err) => {
      console.warn("Error in API Calling" + err.message);
    });
  }
  render() {
    return (
      <div>
        <h1>API Call </h1>
      </div>
    );
  }
}
export default App;
```



Console.table(Array Print)

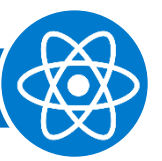
localhost:3000

API Call

```
14: {id: 15, title: 'Eau De Perfume Spray', description: 'Genuine Al-Rehab spray perfume from UAE/Saudi Arabia/Yemen High Quality', price: 30, discountPercentage: 10.99, ...}
15: {id: 16, title: 'Hyaluronic Acid Serum', description: 'L'OrÃ©al Paris introduces Hyaluron Expert Replumping Serum formulated with 1.5% Hyaluronic Acid', price: 19, discountPercentage: 13.31, ...}
16: {id: 17, title: 'Tree Oil 30ml', description: 'Tea tree oil contains a number of compounds, inclu...l, that have been shown to kill certain bacteria,', price: 12, discountPercentage: 4.09, ...}
17: {id: 18, title: 'Oil Free Moisturizer 100ml', description: 'Dermive Oil Free Moisturizer with SPF 20 is specif...ated with ceramides, hyaluronic acid & sunscreen.', price: 40, discountPercentage: 13.1, ...}
18: {id: 19, title: 'Skin Beauty Serum.', description: 'Product name: rorec collagen hyaluronic acid white face serum riceNet weight: 15 m', price: 46, discountPercentage: 10.68, ...}
19: {id: 20, title: 'Freckle Treatment Cream- 15gm', description: 'Fair & Clear is Pakistan's only pure Freckle cream_mercury level is 0%, so there are no side effects.', price: 70, discountPercentage: 16.99, ...}
20: {id: 21, title: '- Daal Masoor 500 grams', description: 'Fine quality Branded Product Keep in a cool and dry place', price: 20, discountPercentage: 4.81, ...}
21: {id: 22, title: 'Elbow Macaroni - 400 gm', description: 'Product details of Bake Parlor Big Elbow Macaroni - 400 gm', price: 14, discountPercentage: 15.58, ...}
22: {id: 23, title: 'Orange Essence Food Flavou', description: 'Specifications of Orange Essence Food Flavour For Cakes and Baking Food Item', price: 14, discountPercentage: 8.04, ...}
23: {id: 24, title: 'cereals muesli fruit nuts', description: 'original fauji cereal muesli 250gm box pack origin...l break fast faujicereals cerels cerel foji fouji', price: 46, discountPercentage: 16.8, ...}
24: {id: 25, title: 'Gulab Powder 50 Gram', description: 'Dry Rose Flower Powder Gulab Powder 50 Gram • Treats Wounds', price: 70, discountPercentage: 13.58, ...}
25: {id: 26, title: 'Plant Hanger For Home', description: 'Boho Decor Plant Hanger For Home Wall Decoration Macrame Wall Hanging Shelf', price: 41, discountPercentage: 17.86, ...}
26: {id: 27, title: 'Flying Wooden Bird', description: 'Package Include 6 Birds with Adhesive Tape Shape: ...ooden Birds Material: Wooden MDF, Laminated 3.5mm', price: 51, discountPercentage: 15.58, ...}
27: {id: 28, title: '3D Embellishment Art Lamp', description: '3D led lamp sticker Wall sticker 3d wall art light on/off button cell operated (included)', price: 20, discountPercentage: 16.49, ...}
28: {id: 29, title: 'Handcraft Chinese style', description: 'Handcraft Chinese style art luxury palace hotel vi...on home decor ceramic vase with brass fruit plate', price: 60, discountPercentage: 15.34, ...}
29: {id: 30, title: 'Key Holder', description: 'Attractive DesignMetallic materialFour key hooksReliable & DurablePremium Quality', price: 30, discountPercentage: 2.92, ...}
length: 30
[[[Prototype]]: Array(0)]
```

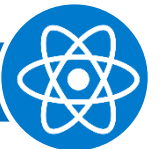
App.js:11

(index)	id	title	description	price	discountPercenta...	rating	stock	brand	category	thumbnail	images
0	1	'iPhone 9'	'An apple mobile...	549	12.96	4.69	94	'Apple'	'smartphones'	'https://i.dummy...	Array(5)
1	2	'iPhone X'	'SIM-Free, Model...	899	17.94	4.44	34	'Apple'	'smartphones'	'https://i.dummy...	Array(4)
2	3	'Samsung Univers...	'Samsung's new v...	1249	15.46	4.09	36	'Samsung'	'smartphones'	'https://i.dummy...	Array(1)
3	4	'OPPOF19'	'OPPO F19 is off...	280	17.91	4.3	123	'OPPO'	'smartphones'	'https://i.dummy...	Array(5)
4	5	'Huawei P30'	'Huawei's re-bad...	499	10.58	4.09	32	'Huawei'	'smartphones'	'https://i.dummy...	Array(3)
5	6	'MacBook Pro'	'MacBook Pro 202...	1749	11.02	4.57	83	'APPLE'	'laptops'	'https://i.dummy...	Array(4)
6	7	'Samsung Galaxy ...	'Samsung Galaxy ...	1499	4.15	4.25	50	'Samsung'	'laptops'	'https://i.dummy...	Array(4)
7	8	'Microsoft Surfa...	'Style and speed...	1499	10.23	4.43	68	'Microsoft Surfa...	'laptops'	'https://i.dummy...	Array(5)
8	9	'Infinix INBOOK'	'Infinix Inbook ...	1099	11.83	4.54	96	'Infinix'	'laptops'	'https://i.dummy...	Array(5)
9	10	'HP Pavilion 15-...	'HP Pavilion 15-...	1099	6.18	4.43	89	'HP Pavilion'	'laptops'	'https://i.dummy...	Array(4)
10	11	'perfume Oil'	'Mega Discount, ...	13	8.4	4.26	65	'Impression of A...	'fragrances'	'https://i.dummy...	Array(4)
11	12	'Brown Perfume'	'Roval Mirage Sp...	40	15.66	4	52	'Roval Mirage'	'fragrances'	'https://i.dummy...	Arrav(5)



Store Api Response in State Array

```
Js App.js M X
src > Js App.js > [default]
1  import axios from "axios";
2  import React from 'react';
3  class App extends React.Component {
4    constructor(props) {
5      super(props);
6      this.state = {mydata:[] };
7    }
8    componentDidMount() {
9      axios.get("https://dummyjson.com/products")
10     .then((result) => {
11       //console.table(result.data.products);
12       //Assign API Result in Array
13       this.setState({ mydata: result.data.products });
14     })
15     .catch((err) => {
16       console.warn("Error in API Calling" + err.message);
17     });
18   }
19   render() {
20     return (
21       <div>
22         <h1>API Call</h1>
23       </div>
24     );
25   }
26 }
27 export default App;
```

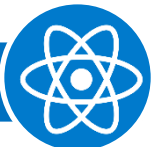


Print Response as String

```
JS App.js M X
src > JS App.js > [default]
1 import axios from "axios";
2 import React from 'react';
3 class App extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = {mydata:[] };
7   }
8   componentDidMount() {
9     axios.get("https://dummyjson.com/products")
10    .then((result) => {
11      //console.table(result.data.products);
12      //Assign API Result in Array
13      this.setState({ mydata: result.data.products });
14    })
15    .catch((err) => {
16      console.warn("Error in API Calling" + err.message);
17    });
18  }
19  render() {
20    return (
21      <div>
22        <h1>API Call</h1>
23        {JSON.stringify(this.state.mydata)}
24      </div>
25    );
26  }
27 }
28 export default App;
```

```
import axios from "axios";
import React from 'react';
class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = {mydata:[] };
  }
  componentDidMount() {
    axios.get("https://dummyjson.com/products")
      .then((result) => {
        //console.table(result.data.products);
        //Assign API Result in Array
        this.setState({ mydata: result.data.products });

      }).catch((err) => {
        console.warn("Error in API Calling" + err.message);
      });
  }
  render() {
    return (
      <div>
        <h1>API Call</h1>
        {JSON.stringify(this.state.mydata)}
      </div>
    );
  }
}
export default App;
```

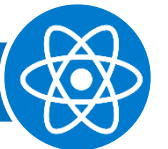


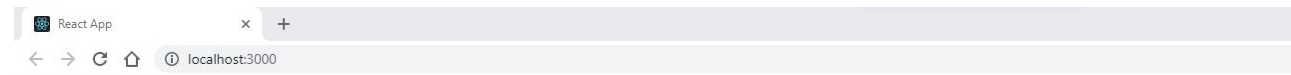
Output








API Call

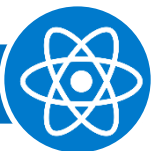
```
[{"id":1,"title":"iPhone 9","description":"An apple mobile which is nothing like apple","price":549,"discountPercentage":12.96,"rating":4.69,"stock":94,"brand":"Apple","category":"smartphones","thumbnail":"https://i.dummyjson.com/data/products/1/thumbnail.jpg","https://i.dummyjson.com/data/products/1/1.jpg","https://i.dummyjson.com/data/products/1/2.jpg","https://i.dummyjson.com/data/products/1/3.jpg","https://i.dummyjson.com/data/products/1/4.jpg"}, {"id":2,"title":"iPhone X","description":"SIM-Free, Model A19211 6.5-inch Super Retina HD display with OLED technology A12 Bionic chip with ...","price":899,"discountPercentage":17.94,"rating":4.44,"stock":34,"brand":"Apple","category":"smartphones","thumbnail":"https://i.dummyjson.com/data/products/2/thumbnail.jpg","https://i.dummyjson.com/data/products/2/1.jpg","https://i.dummyjson.com/data/products/2/2.jpg","https://i.dummyjson.com/data/products/2/3.jpg","https://i.dummyjson.com/data/products/2/4.jpg"}, {"id":3,"title":"Samsung Universe 9","description":"Samsung's new variant which goes beyond Galaxy to the Universe","price":1249,"discountPercentage":15.46,"rating":4.09,"stock":36,"brand":"Samsung","category":"smartphones","thumbnail":"https://i.dummyjson.com/data/products/3/thumbnail.jpg","https://i.dummyjson.com/data/products/3/1.jpg"}, {"id":4,"title":"OPPO F19","description":"OPPO F19 is officially announced on April 2021.","price":280,"discountPercentage":17.91,"rating":4.3,"stock":123,"brand":"OPPO","category":"smartphones","thumbnail":"https://i.dummyjson.com/data/products/4/thumbnail.jpg","https://i.dummyjson.com/data/products/4/1.jpg","https://i.dummyjson.com/data/products/4/2.jpg","https://i.dummyjson.com/data/products/4/3.jpg","https://i.dummyjson.com/data/products/4/4.jpg"}, {"id":5,"title":"Huawei P30","description":"Huawei's re-badged P30 Pro New Edition was officially unveiled yesterday in Germany and now the device has made its way to the UK.","price":499,"discountPercentage":10.58,"rating":4.09,"stock":32,"brand":"Huawei","category":"smartphones","thumbnail":"https://i.dummyjson.com/data/products/5/thumbnail.jpg","https://i.dummyjson.com/data/products/5/1.jpg","https://i.dummyjson.com/data/products/5/2.jpg","https://i.dummyjson.com/data/products/5/3.jpg"}, {"id":6,"title":"MacBook Pro","description":"MacBook Pro 2021 with mini-LED display may launch between September, November","price":1749,"discountPercentage":11.02,"rating":4.57,"stock":83,"brand":"Apple","category":"laptops","thumbnail":"https://i.dummyjson.com/data/products/6/thumbnail.jpg","https://i.dummyjson.com/data/products/6/1.png","https://i.dummyjson.com/data/products/6/2.jpg","https://i.dummyjson.com/data/products/6/3.png","https://i.dummyjson.com/data/products/6/4.png"}, {"id":7,"title":"Samsung Galaxy Book","description":"Samsung Galaxy Book S (2020) Laptop With Intel Lakefield Chip, 8GB of RAM 128GB of SSD","price":1499,"discountPercentage":4.15,"rating":4.25,"stock":50,"brand":"Samsung","category":"laptops","thumbnail":"https://i.dummyjson.com/data/products/7/thumbnail.jpg","https://i.dummyjson.com/data/products/7/1.jpg","https://i.dummyjson.com/data/products/7/2.jpg","https://i.dummyjson.com/data/products/7/3.jpg","https://i.dummyjson.com/data/products/7/4.jpg"}, {"id":8,"title":"Microsoft Surface Laptop 4","description":"Style and speed. Stand out on HD video calls backed by Studio Mics. Capture ideas on the vibrant touchscreen.","price":1499,"discountPercentage":10.23,"rating":4.43,"stock":68,"brand":"Microsoft","category":"laptops","thumbnail":"https://i.dummyjson.com/data/products/8/thumbnail.jpg","images":["https://i.dummyjson.com/data/products/8/1.jpg","https://i.dummyjson.com/data/products/8/2.jpg","https://i.dummyjson.com/data/products/8/3.jpg","https://i.dummyjson.com/data/products/8/4.jpg","https://i.dummyjson.com/data/products/8/5.jpg","https://i.dummyjson.com/data/products/8/6.jpg"]}, {"id":9,"title":"Infinix INBOOK","description":"Infinix Inbook X1 Ci3 10th 8GB 256GB 14 Win10 Grey – 1 Year Warranty","price":1100,"discountPercentage":18.0,"rating":4.84,"stock":26,"brand":"Infinix","category":"laptops","thumbnail":"https://i.dummyjson.com/data/products/9/thumbnail.jpg","https://i.dummyjson.com/data/products/9/1.jpg","https://i.dummyjson.com/data/products/9/2.jpg","https://i.dummyjson.com/data/products/9/3.jpg","https://i.dummyjson.com/data/products/9/4.jpg","https://i.dummyjson.com/data/products/9/5.jpg"}]
```





Product Listing

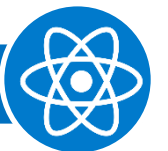
ID	Title	Price	Image
1	iPhone 9	549	 An advertisement for the iPhone 9 showing the phone in blue and black colors with the text 'Meet iPhone 9' and the Apple logo.
2	iPhone X	899	 A white iPhone X standing vertically against a dark background.
3	Samsung Universe 9	1249	 A black Samsung Universe 9 smartphone with a large screen and a physical keyboard.
4	OPPO F19	280	 An advertisement for the OPPO F19 showing the phone in blue and black colors with the text 'OPPO F19' and 'Flash your Face with 33W Flash Charge'.
5	Huawei P30	499	 A blue Huawei P30 smartphone standing vertically against a dark background.



Api Code

```
JS App.js M X
src > JS App.js > App
1 import axios from "axios";
2 import React from 'react';
3 class App extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = { mydata: [] };
7   }
8   componentDidMount() {
9     axios.get("https://dummyjson.com/products")
10      .then((result) => {
11        //console.table(result.data.products);
12        //Assign API Result in Array
13        this.setState({ mydata: result.data.products });
14      }).catch((err) => {
15        console.warn("Error in API Calling" + err.message);
16      });
17   }
18 }
```

```
JS App.js M X
src > JS App.js > App
18
19 render() {
20   return (
21     <React.Fragment>
22       <h1>Product Listing</h1>
23       <table border='1'>
24         <tr>
25           <th>ID</th>
26           <th>Title</th>
27           <th>Price</th>
28           <th>Image</th>
29         </tr>
30         {this.state.mydata.map((myproduct, index) => {
31           return (
32             <tr key={index}>
33               <td>{index + 1}</td>
34               <td>{myproduct.title}</td>
35               <td>{myproduct.price}</td>
36               <td><img alt={myproduct.thumbnail} height="100" src={myproduct.thumbnail}/></td>
37             </tr>
38           )
39         })}
40       </table>
41     </React.Fragment>
42   );
43 }
44
45 export default App;
```








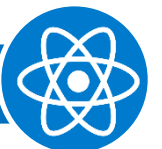
Output

React App x +

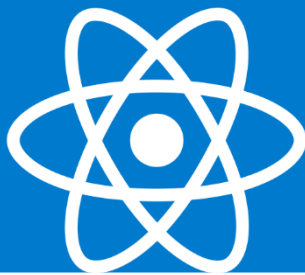
localhost:3000

Product Listing

ID	Title	Price	Image
1	iPhone 9	549	
2	iPhone X	899	
3	Samsung Universe 9	1249	
4	OPPO F19	280	
5	Huawei P30	499	



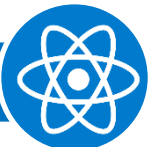
| Custom API Call



API with Object

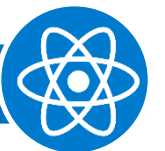
- URL : <https://akashsir.in/myapi/crud/todo-list-api.php>
- Method : Get
- Response : Object[Array]

```
1 // 20230218141827
2 // https://akashsir.in/myapi/crud/todo-list-api.php
3
4 {
5   "flag": "1",
6   "message": "4 Record Found",
7   "todo_list": [
8     {
9       "todo_id": "1",
10      "todo_title": "Todo 1",
11      "todo_details": "Todo detail 1",
12      "todo_datetime": "18-02-2023 12:30 AM"
13    },
14    {
15      "todo_id": "2",
16      "todo_title": "Todo 2",
17      "todo_details": "Todo detail 2",
18      "todo_datetime": "18-02-2023 12:30 AM"
19    },
20    {
21      "todo_id": "3",
22      "todo_title": "Todo 3",
23      "todo_details": "Todo detail 3",
24      "todo_datetime": "18-02-2023 12:30 AM"
25    },
26    {
27      "todo_id": "4",
28      "todo_title": "12",
29      "todo_details": "bnv",
30      "todo_datetime": "18-02-2023 01:08 PM"
31    }
32  ]
33 }
```



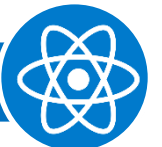
API Call

```
JS Add.js ×
src > JS Add.js > Add > componentDidMount
1  import React from 'react';
2  import axios from 'axios';
3  class Add extends React.Component {
4      constructor(props) {
5          super(props);
6          this.state = { mydata:[] };
7      }
8      componentDidMount() {
9          axios.get("https://akashsir.in/myapi/crud/todo-list-api.php")
10         .then(res=>{
11             const a = res.data.todo_list;
12             this.setState({ mydata:a});
13         })
14     }
15 }
```



Code

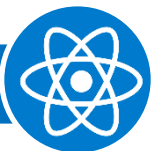
```
14 }
15
16 render() {
17   return (
18     <>
19       <h2>Display</h2>
20       <table border='1'>
21         <thead>
22           <tr>
23             <th>ID</th>
24             <th>Title</th>
25             <th>Details</th>
26           </tr></thead>
27           <tbody>
28             {this.state.mydata.map((values, i) =>
29               <>
30                 <tr key={i} >
31                   <td key={values.todo_id}>{values.todo_id}</td>
32                   <td>{values.todo_title}</td>
33                   <td>{values.todo_details}</td>
34                 </tr>
35               </>
36             )}
37           </tbody>
38         </table>
39       </>
40     );
41   }
42 }
43 export default Add;
```

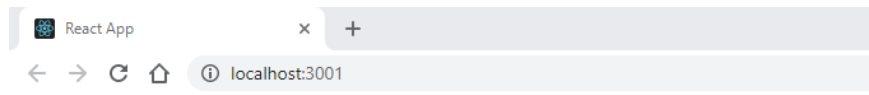


Code

```
import axios from 'axios';
class Add extends React.Component {
  constructor(props) {
    super(props);
    this.state = { mydata: [] };
  }
  componentDidMount() {
    axios.get("https://akashsir.in/myapi/crud/todo-list-api.php")
      .then(res => {
        const a = res.data.todo_list;
        this.setState({ mydata: a });
      })
  }
}
```

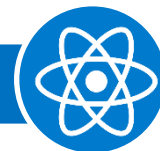
```
render() {
  return (
    <>
      <h2>Display</h2>
      <table border='1'>
        <thead>
          <tr>
            <th>ID</th>
            <th>Title</th>
            <th>Details</th>
          </tr></thead>
          <tbody>
            {this.state.mydata.map((values, i) =>
              <>
                <tr key={i} >
                  <td key={values.todo_id}>{values.todo_id}</td>
                  <td>{values.todo_title}</td>
                  <td>{values.todo_details}</td>
                </tr>
              </>
            )}
          </tbody>
        </table>
      </>
    );
  }
}
export default Add;
```



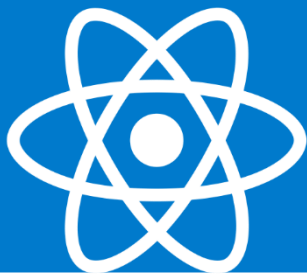


Display

ID	Title	Details
1	Todo 1	Todo detail 1
2	Todo 2	Todo detail 2
3	Todo 3	Todo detail 3
4	Todo 4	Todo detail 4



| Hooks



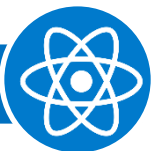
Hooks

```
JS Display2.js ×
src > JS Display2.js > Display2
1  import React,{useState,useEffect} from 'react';
2  import axios from 'axios';
3  function Display2(){
4
5      const [mydata,setData] = useState([]);
6
7      useEffect(() =>{
8          axios.get("https://akashsir.in/myapi/crud/todo-list-api.php")
9              .then(res => {
10                  console.log(res.data);
11                  setData(res.data.todo_list);
12              })
13      },[])
14
```

```
import React,{useState,useEffect} from 'react';
import axios from 'axios';
function Display2(){

    const [mydata,setData] = useState([]);

    useEffect(() =>{
        axios.get("https://akashsir.in/myapi/crud/todo-list-api.php")
            .then(res => {
                console.log(res.data);
                setData(res.data.todo_list);
            })
    },[])
}
```

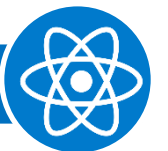


Code

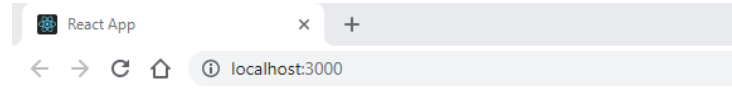
```
JS Display2.js x
src > JS Display2.js > Display2
14
15   return (
16     <>
17       <h2>Display</h2>
18       <table border='1'>
19         <thead>
20           <tr>
21             <th>ID</th>
22             <th>Title</th>
23             <th>Details</th>
24           </tr></thead>
25           <tbody>
26             {mydata.map((values, i) =>
27               <>
28                 <tr key={i} >
29                   <td key={values.todo_id}>{values.todo_id}</td>
30                   <td>{values.todo_title}</td>
31                   <td>{values.todo_details}</td>
32                 </tr>
33               </>
34             )}
35           </tbody>
36         </table>
37       </>
38     );
39
40   }
41   export default Display2;
```

```
return (
  <>
    <h2>Display</h2>
    <table border='1'>
      <thead>
        <tr>
          <th>ID</th>
          <th>Title</th>
          <th>Details</th>
        </tr></thead>
      <tbody>
        {mydata.map((values, i) =>
          <>
            <tr key={i} >
              <td key={values.todo_id}>{values.todo_id}</td>
              <td>{values.todo_title}</td>
              <td>{values.todo_details}</td>
            </tr>
          </>
        )}
      </tbody>
    </table>
  </>
);

}
export default Display2;
```

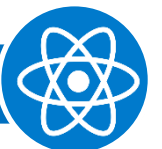


Output



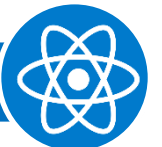
Display

ID	Title	Details
1	Todo 1	Todo detail 1
2	Todo 2	Todo detail 2
3	Todo 3	Todo detail 3
4	Todo 4	Todo detail 4
5	Todo 5	Todo detail 5



Task Call Below API and Print Data in React

- <https://jsonplaceholder.typicode.com/users>
- <https://fakestoreapi.com/products> (With Image)
- <https://reqres.in/api/users>
- <https://dummyjson.com/quotes>
- <https://dummyjson.com/products> (With Image)
- <https://gorest.co.in/public/v2/users>

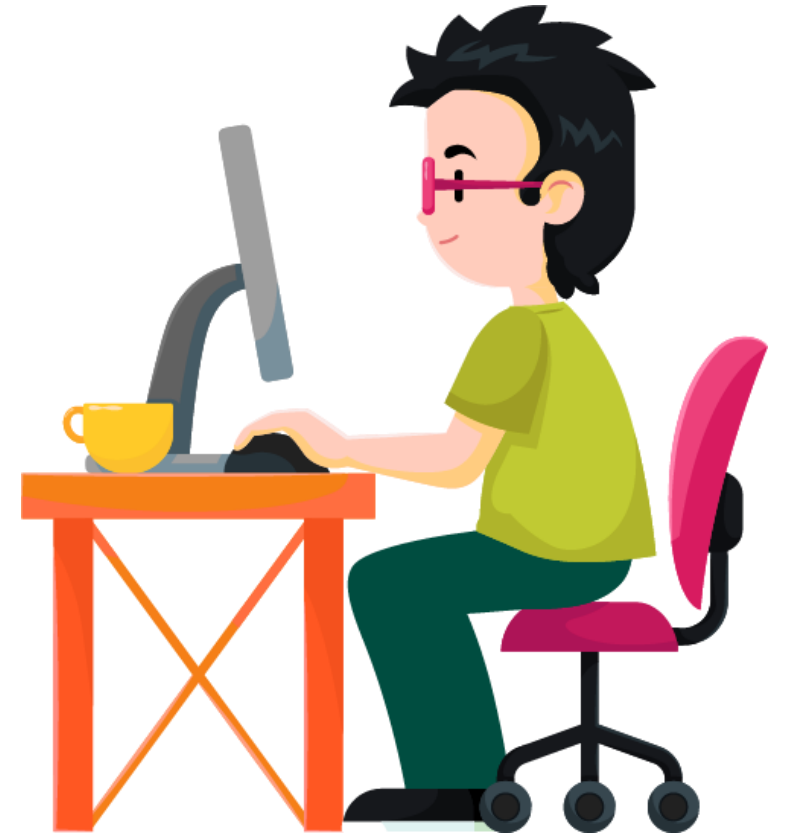


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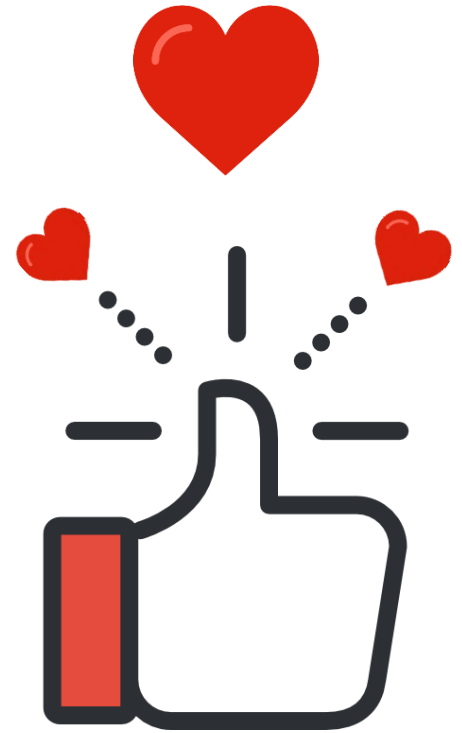
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET



Sulekha

<https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad>



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