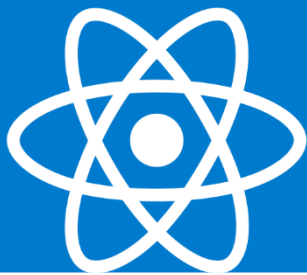




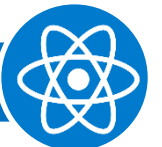
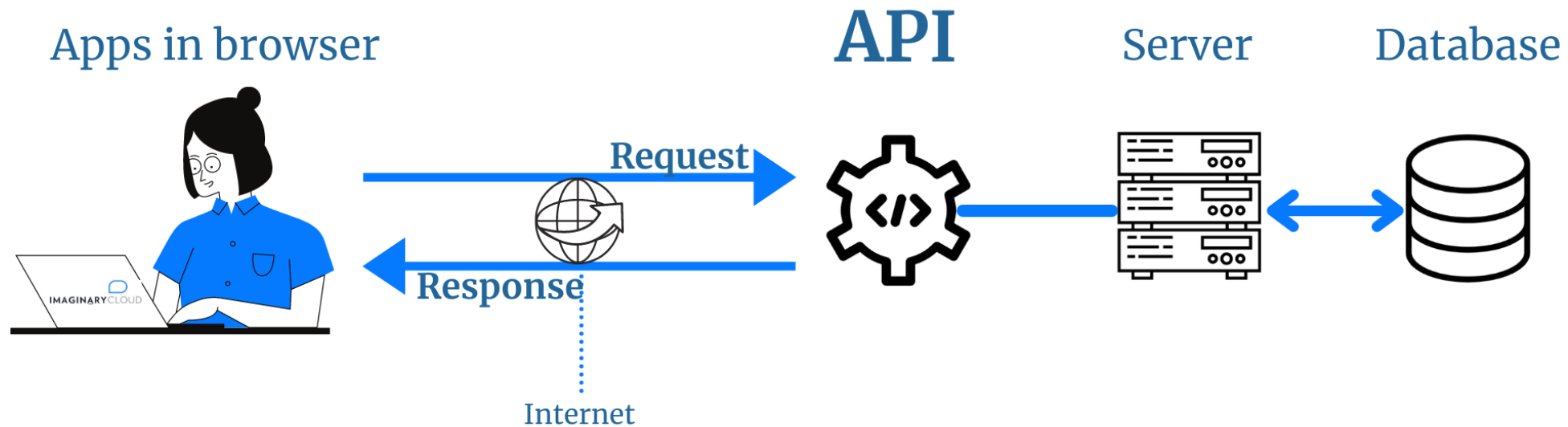
React JS

#React Notes

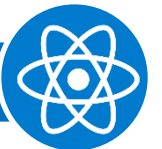
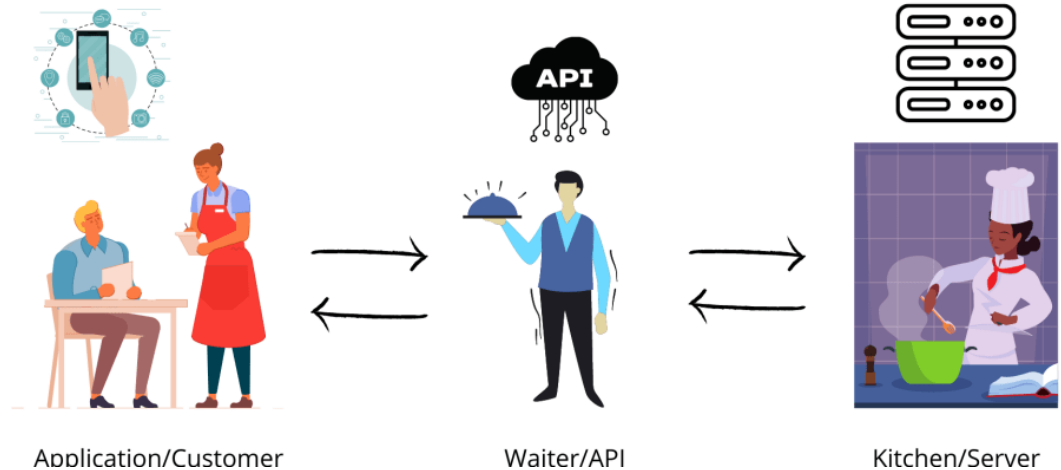
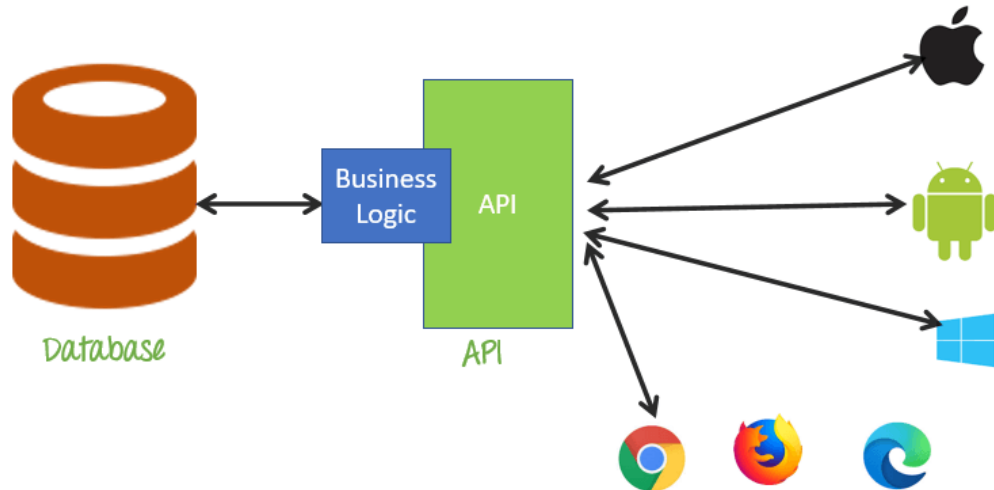
| API



What is API ?



How API Works



Tools to Test API

- PostMan

- <https://www.postman.com/> (Desktop)
- <https://web.postman.co/> (Web)



- ThunderClient

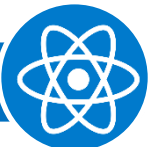
- <https://www.thunderclient.com/> (VS Code Extension)

- insomnia

- <https://insomnia.rest/>

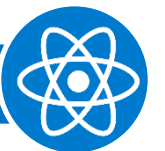
- Firecamp

- <https://firecamp.io/>



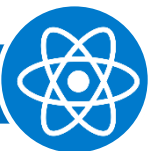
Mock API

- <https://jsonplaceholder.typicode.com/>
- <https://fakestoreapi.com/>
- <http://dummyjson.com/>
- <https://fakejson.com/>
- <https://reqres.in/>
- <https://dummyapi.io/explorer>
- <https://gorest.co.in/>
- <https://www.mockaroo.com/>
- <http://dummy.restapiexample.com/>

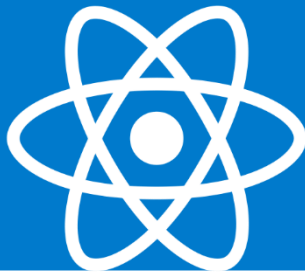


Partner API

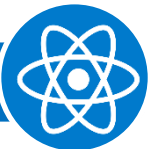
- <https://newsapi.org/>
- <https://openweathermap.org/api>
- <https://spoonacular.com/food-api>



| API Testing

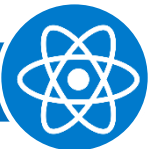


- Ask Question ?
 - Where is API URL ?
 - Which method is used in API ? (GET/POST)
 - Is there any Parameter ?
 - Is there any Authentication ?
- CheckList?
 - 1-Test API in PostMan
 - 2-Check Status Code
 - 3-Check Response in Postman as JSON
 - 4-Copy paste response in jsonlint and validate it. (Optional)
 - <https://jsonlint.com/>



API URL

- Method : Get
- Use : List Details
- URL : <https://jsonplaceholder.typicode.com/posts>



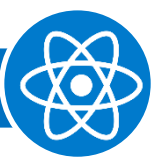
Post Man

The screenshot displays the Postman web application interface. At the top, there's a navigation bar with 'File', 'Edit', 'View', and 'Help' menus. Below this is a secondary bar with 'Home', 'Workspaces', 'Reports', and 'Explore' options. A search bar labeled 'Search Postman' is also present. On the right side of the top bar, there are links for 'Sign In' and 'Create Account'.

The main interface is divided into several sections. On the left, there's a sidebar with a 'Scratch Pad' section containing a 'New' button, an 'Import' button, and a 'Create Collection' link. Below this, there's a 'You don't have any collections' message with a 'Create Collection' link. The central area shows a GET request to 'https://jsonplaceholder.typicode.com/posts'. The request is configured with a 'GET' method and the URL. Below the URL bar, there are tabs for 'Params', 'Authorization', 'Headers (6)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. The 'Params' tab is active, showing a table with 'KEY' and 'VALUE' columns. The 'Body' tab is also visible, showing a JSON response in 'Pretty' format. The response status is '200 OK' with a time of '479 ms' and a size of '27.94 KB'. The JSON response is a list of four objects, each representing a post with fields like 'userId', 'id', 'title', and 'body'.

KEY	VALUE	DESCRIPTION
Key	Value	Description

```
1 {
2   {
3     "userId": 1,
4     "id": 1,
5     "title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
6     "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt rem eveniet architecto"
7   },
8   {
9     "userId": 1,
10    "id": 2,
11    "title": "qui est esse",
12    "body": "est rerum tempore vitae\nsequi sint nihil reprehenderit dolor beatae ea dolores neque\nfugiat blanditiis voluptate porro vel nihil molestiae ut reiciendis\nqui aperiam non debitis possimus qui neque nisi nulla"
13  },
14  {
15    "userId": 1,
16    "id": 3,
17    "title": "ea molestias quasi exercitationem repellat qui ipsa sit aut",
18    "body": "et iusto sed quo iure\nvoluptatem occaecati omnis eligendi aut ad\nvoluptatem doloribus vel accusantium quis pariatur\nmolestiae porro eius odio et labore et velit aut"
19  },
20  {
21    "userId": 1,
22    "id": 4,
23    "title": "eum et est occaecati",
24    "body": "ullam et saepe reiciendis voluptatem adipisci\nsit amet autem assumenda provident rerum culpa\nquis hic commodi nesciunt rem tenetur doloremque ipsam iure\nquis sunt voluptatem rerum illo velit"
25  },
26  }
```



Thunder Client

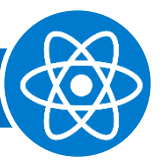
The screenshot displays the Thunder Client interface within the Visual Studio Code editor. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The main window is titled "New Request - my-react-app - Visual Studio Code".

Left Panel: Contains the "Activity" view with tabs for "New Request", "Collections", and "Env". Below these is a "filter activity" input and a list of requests, including "GET jsonplaceholder.typicode.com/posts" and "GET \$jsonplaceholder.ty picode.com/posts".

Center Panel: Shows the "New Request" configuration. The method is "GET" and the URL is "https://jsonplaceholder.typicode.com/posts". The "Send" button is visible. Below the URL bar are tabs for "Query", "Headers", "Auth", "Body", and "Tests". The "Query" tab is active, showing a table for "Query Parameters" with columns for "parameter" and "value".

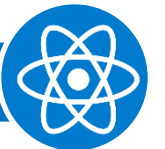
Right Panel: Displays the "Response" of the request. The status is "200 OK", the size is "26.88 KB", and the time is "124 ms". The response body is a JSON array of five objects, each representing a post with fields like "userId", "id", "title", and "body".

```
1 {
2   {
3     "userId": 1,
4     "id": 1,
5     "title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
6     "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt rem eveniet architecto"
7   },
8   {
9     "userId": 1,
10    "id": 2,
11    "title": "qui est esse",
12    "body": "est rerum tempore vitae\nsequi sint nihil reprehenderit dolor beatae ea dolores neque\nfugiat blanditiis voluptate porro vel nihil molestiae ut reiciendis\nqui aperiam non debitis possimus qui neque nisi nulla"
13  },
14  {
15    "userId": 1,
16    "id": 3,
17    "title": "ea molestias quasi exercitationem repellat qui ipsa sit aut",
18    "body": "et iusto sed quo iure\nvoluptatem occaecati omnis eligendi aut ad\nvoluptatem doloribus vel accusantium quis pariatur\nmolestiae porro eius odio et labore et velit aut"
19  },
20  {
21    "userId": 1,
22    "id": 4,
23    "title": "eum et est occaecati",
24    "body": "ullam et saepe reiciendis voluptatem adipisci\nsit amet autem assumenda provident rerum culpa\nquis hic commodi nesciunt rem tenetur doloremque ipsam iure\nquis sunt voluptatem rerum illo velit"
25  },
26  {
27    "userId": 1,
28    "id": 5,
29    "title": "nesciunt quas odio",
30    "body": "repudiandae veniam quaerat sunt sed\nnalias aut fugiat sit autem sed est\nvoluptatem omnis possimus esse voluptatibus qui\nest aut tenetur dolor nesci"
```

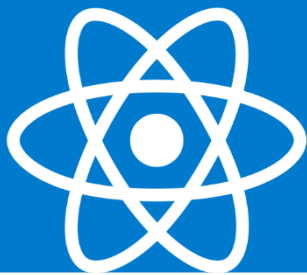


API Call

- We can call API Using 2 Methods
 - JS Fetch Method
 - Axios NPM

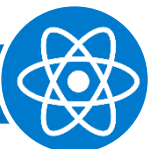


| Fetch



Fetch

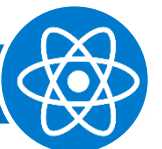
- The Fetch API is a promise-based API for making HTTP requests, Browsers come with a global `fetch()` function that we can use to make requests.
- The Fetch API can make GET, POST, PUT, PATCH, DELETE and other kinds of HTTP requests. We'll focus on two of the most common methods used in HTTP requests: GET and POST.



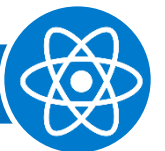
Get Syntax :

- In the first line we use the global `fetch()` function to send a GET request to our API. The argument of `fetch()` is the URL with the server-side resource.
- We then chain the promise with the `then()` method, which captures the HTTP response in the `response` argument and call its `json()` method. The `json()` method parses the response body to a JSON object. However, it returns that as a promise.
- That's we why use `then()` once again to chain another promise, which logs the parsed JSON to the console.

```
fetch('https://jsonplaceholder.typicode.com/posts/1')  
  .then(response => response.json())  
  .then(json => console.log(json));
```




```
1 // 20220315083309
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  {
29    "id": 2,
30    "name": "Ervin Howell",
31    "username": "Antonette",
32    "email": "Shanna@melissa.tv",
33    "address": {
34      "street": "Victor Plains",
35      "suite": "Suite 879",
36      "city": "Wisokyburgh",
37      "zipcode": "90566-7771",
38      "geo": {
39        "lat": "-43.9509",
40        "lng": "-34.4618"
```



Fetch API Call & Print Response in Console.

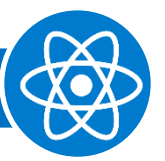
```
App.js M X
src > App.js > App > componentDidMount
1 import React from 'react';
2 class App extends React.Component {
3   constructor(props) {
4     super(props);
5     this.state = { };
6   }
7
8   componentDidMount() {
9     fetch('https://jsonplaceholder.typicode.com/users')
10      .then(response => response.json())
11      .then(response => {
12        console.log(response);
13      })
14    }
15
16   render() {
17     return (
18       <>
19       <h1>JSON Data Loading in Console</h1>
20       </>
21     );
22   }
23 }
24
```

```
componentDidMount() {
  fetch('https://jsonplaceholder.typicode.com/users')
    .then(response => response.json())
    .then(response => {
      console.log(response);
    })
}
```

JSON Data Loading in Console

```
React App
localhost:3000

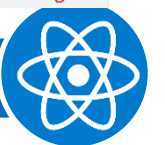
Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder >>
top Filter
▼ (10) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}] ⓘ
▶ 0: {id: 1, name: 'Leanne Graham', username: 'Bret', email: 'Sincere@april.biz', address: {...}, ...}
▶ 1: {id: 2, 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: 'Glenna 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
```



Console Table

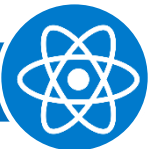
```
componentDidMount(){  
  fetch('https://jsonplaceholder.typicode.com/posts')  
  .then(response => response.json())  
  .then(response => {  
    console.table(response);  
  })  
}
```

[webpack-dev-server] Server started: Hot Module Replacement enabled, Live Reloading enabled, Progress disabled, Overlay enabled.					
index.js:551					
Display.js:12					
(index)	userId	id	title	body	
0	1	1	'sunt aut facere repellat provident occaecati excepturi optio reprehenderit'	'quia et suscipit\nsuscipit recusandae consequuntur ...strum ...	
1	1	2	'qui est esse'	'est rerum tempore vitae\nsequi sint nihil reprehend...aperia...	
2	1	3	'ea molestias quasi exercitationem repellat qui ipsa sit aut'	'et iusto sed quo iure\nvoluptatem occaecati omnis e...\nmole...	
3	1	4	'eum et est occaecati'	'ullam et saepe reiciendis voluptatem adipisci\nsit ... ipsam...	
4	1	5	'nesciunt quas odio'	'repudiandae veniam quaerat sunt sed\nalias aut fugi...sse vo...	
5	1	6	'dolorem eum magni eos aperiam quia'	'ut aspernatur corporis harum nihil quis provident ...s\nvolu...	
6	1	7	'magnam facilis autem'	'dolore placeat quibusdam ea quo vitae\nmagni quis e...t exce...	
7	1	8	'dolorem dolore est ipsam'	'dignissimos aperiam dolorem qui eum\nfacilis quibus...\nnipsa...	
8	1	9	'nesciunt iure omnis dolorem tempora et accusantium'	'consectetur animi nesciunt iure dolore\nenim quia a...st aut...	
9	1	10	'optio molestias id quia eum'	'quo et expedita modi cum officia vel magni\ndolorib...it\nqu...	
10	2	11	'et ea vero quia laudantium autem'	'delectus reiciendis molestiae occaecati non minima...luptate...	
11	2	12	'in quibusdam tempore odit est dolorem'	'itaque id aut magnam\npraesentium quia et ea odit e...uia id...	
12	2	13	'dolorum ut in voluptas mollitia et saepe quo animi'	'aut dicta possimus sint mollitia voluptas commodi ...ssumend...	
13	2	14	'voluptatem eligendi optio'	'fuga et accusamus dolorum perferendis illo volupta...molesti...	
14	2	15	'eveniet quod temporibus'	'reprehenderit quos placeat\nvelit minima officia do...usanda...	
15	2	16	'sint suscipit perspiciatis velit dolorum rerum ipsa laboriosam odio'	'suscipit nam nisi quo aperiam aut\nasperiores eos f... magni...	



Print Response in React

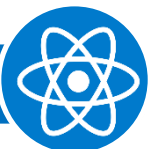
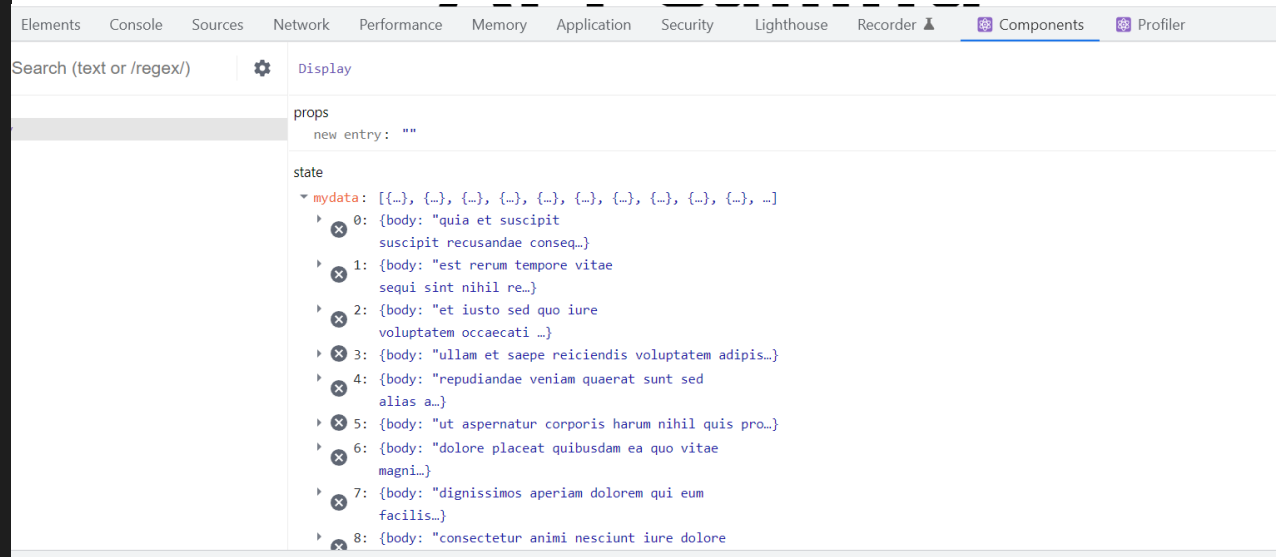
- Convert Data into JSON to String
- `{JSON.stringify(this.state.map.arrayname)}`
- `{console.log(this.state.map.arrayname)}`



Update Data in State

- Define Blank Array in State
- After Loading JSON Data Assign it to Array using State.

```
import React from 'react';
class Display extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      mydata : [],
    };
  }
  componentDidMount(){
    fetch('https://jsonplaceholder.typicode.com/posts')
      .then(response => response.json())
      .then(response => {
        console.table(response);
        this.setState({mydata: response});
      })
  }
}
```



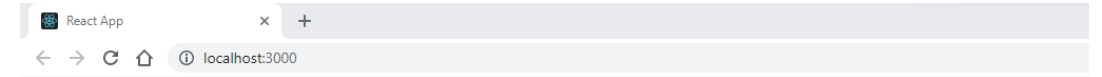
JSON Stringify

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

```
React App
localhost:3000
[{"id":1,"name":"Leanne Graham","username":"Bret","email":"Sincere@april.biz","address":{"street":"Kulas Light","suite":"Apt. 556","city":"Gwenborough","zipcode":"92998-3874","geo":{"lat":"-37.3159","lng":"81.1496"},"phone":"1-770-736-8031 x56442","website":"hildegard.org","company":{"name":"Romaguera-Crona","catchPhrase":"Multi-layered client-server neural-net","bs":"harness real-time e-markets"}}, {"id":2,"name":"Ervin Howell","username":"Antonette","email":"Shanna@melissa.tv","address":{"street":"Victor Plains","suite":"Suite 879","city":"Wisokyburgh","zipcode":"90566-7771","geo":{"lat":"-43.9509","lng":"-34.4618"},"phone":"010-692-6593 x09125","website":"anastasia.net","company":{"name":"Deckow-Crist","catchPhrase":"Proactive didactic contingency","bs":"synergize scalable supply-chains"}}, {"id":3,"name":"Clementine Bauch","username":"Samantha","email":"Nathan@yesenia.net","address":{"street":"Douglas Extension","suite":"Suite 847","city":"McKenziehaven","zipcode":"59590-4157","geo":{"lat":"-68.6102","lng":"-47.0653"},"phone":"1-463-123-4447","website":"ramiro.info","company":{"name":"Romaguera-Jacobson","catchPhrase":"Face to face bifurcated interface","bs":"e-enable strategic applications"}}, {"id":4,"name":"Patricia Lebsack","username":"Karianne","email":"Julianne.OConner@kory.org","address":{"street":"Hoeger Mall","suite":"Apt. 692","city":"South Elvis","zipcode":"53919-4257","geo":{"lat":"29.4572","lng":"-164.2990"},"phone":"493-170-9623 x156","website":"kale.biz","company":{"name":"Robel-Corkery","catchPhrase":"Multi-tiered zero tolerance productivity","bs":"transition cutting-edge web services"}}, {"id":5,"name":"Chelsey Dietrich","username":"Kamren","email":"Lucio.Hettinger@annie.ca","address":{"street":"Skiles Walks","suite":"Suite 351","city":"Roscoeview","zipcode":"33263","geo":{"lat":"-31.8129","lng":"62.5342"},"phone":"(254)954-1289","website":"demarco.info","company":{"name":"Keebler 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Green","zipcode":"01234-5678","geo":{"lat":"01.2345","lng":"67.8901"},"phone":"456-789-0123","website":"Mrs. Kaitlyn Green.com","company":{"name":"Mrs. Kaitlyn Green Corp","catchPhrase":"Mrs. Kaitlyn Green Corp","bs":"Mrs. Kaitlyn Green Corp"}}, {"id":64,"name":"Dr. Christopher White","username":"Dr. Christopher White","email":"Dr. Christopher White@Dr. Christopher White.com","address":{"street":"Dr. Christopher White","suite":"Suite 012","city":"Dr. Christopher White","zipcode":"90123-4567","geo":{"lat":"90.1234","lng":"56.7890"},"phone":"321-098-7654","website":"Dr. Christopher White.com","company":{"name":"Dr. Christopher White MD","catchPhrase":"Dr. Christopher White MD","bs":"Dr. Christopher White MD"}}, {"id":65,"name":"Prof. Benjamin Hall","username":"Prof. Benjamin Hall","email":"Prof. Benjamin Hall@Prof. Benjamin Hall.com","address":{"street":"Prof. Benjamin Hall","suite":"Suite 345","city":"Prof. Benjamin Hall","zipcode":"89012-3456","geo":{"lat":"89.0123","lng":"45.6789"},"phone":"210-987-6543","website":"Prof. Benjamin Hall.com","company":{"name":"Prof. Benjamin Hall PhD","catchPhrase":"Prof. Benjamin Hall PhD","bs":"Prof. Benjamin Hall PhD"}}, {"id":66,"name":"Mr. Matthew King","username":"Mr. Matthew King","email":"Mr. Matthew King@Mr. Matthew King.com","address":{"street":"Mr. Matthew King","suite":"Suite 678","city":"Mr. Matthew King","zipcode":"78901-2345","geo":{"lat":"78.9012","lng":"34.5678"},"phone":"098-765-4321","website":"Mr. Matthew King.com","company":{"name":"Mr. Matthew King Esq","catchPhrase":"Mr. Matthew King Esq","bs":"Mr. Matthew King Esq"}}, {"id":67,"name":"Ms. Ashley Lee","username":"Ms. Ashley Lee","email":"Ms. Ashley Lee@Ms. Ashley Lee.com","address":{"street":"Ms. Ashley Lee","suite":"Suite 901","city":"Ms. Ashley Lee","zipcode":"67890-1234","geo":{"lat":"67.8901","lng":"23.4567"},"phone":"987-654-3210","website":"Ms. Ashley Lee.com","company":{"name":"Ms. Ashley Lee LLC","catchPhrase":"Ms. Ashley Lee LLC","bs":"Ms. Ashley Lee LLC"}}, {"id":68,"name":"Mr. Joshua King","username":"Mr. Joshua King","email":"Mr. Joshua King@Mr. Joshua King.com","address":{"street":"Mr. Joshua King","suite":"Suite 234","city":"Mr. Joshua King","zipcode":"56789-0123","geo":{"lat":"56.7890","lng":"12.3456"},"phone":"456-789-0123","website":"Mr. Joshua King.com","company":{"name":"Mr. Joshua King Inc","catchPhrase":"Mr. Joshua King Inc","bs":"Mr. Joshua King Inc"}}, {"id":69,"name":"Mrs. Kaitlyn Green","username":"Mrs. Kaitlyn Green","email":"Mrs. Kaitlyn Green@Mrs. Kaitlyn Green.com","address":{"street":"Mrs. Kaitlyn Green","suite":"Suite 567","city":"Mrs. Kaitlyn Green","zipcode":"45678-9012","geo":{"lat":"45.6789","lng":"01.2345"},"phone":"321-098-7654","website":"Mrs. Kaitlyn Green.com","company":{"name":"Mrs. Kaitlyn Green Corp","catchPhrase":"Mrs. Kaitlyn Green Corp","bs":"Mrs. Kaitlyn Green Corp"}}, {"id":70,"name":"Dr. Christopher White","username":"Dr. Christopher White","email":"Dr. Christopher White@Dr. Christopher White.com","address":{"street":"Dr. Christopher White","suite":"Suite 890","city":"Dr. Christopher White","zipcode":"34567-8901","geo":{"lat":"34.5678","lng":"90.1234"},"phone":"210-987-6543","website":"Dr. Christopher White.com","company":{"name":"Dr. Christopher White MD","catchPhrase":"Dr. Christopher White MD","bs":"Dr. Christopher White MD"}}, {"id":71,"name":"Prof. Benjamin Hall","username":"Prof. Benjamin Hall","email":"Prof. Benjamin Hall@Prof. Benjamin Hall.com","address":{"street":"Prof. Benjamin Hall","suite":"Suite 123","city":"Prof. Benjamin Hall","zipcode":"23456-7890","geo":{"lat":"23.4567","lng":"89.0123"},"phone":"098-765-4321","website":"Prof. Benjamin Hall.com","company":{"name":"Prof. Benjamin Hall PhD","catchPhrase":"Prof. Benjamin Hall PhD","bs":"Prof. Benjamin Hall PhD"}}, {"id":72,"name":"Mr. Matthew King","username":"Mr. Matthew King","email":"Mr. Matthew King@Mr. Matthew King.com","address":{"street":"Mr. Matthew King","suite":"Suite 456","city":"Mr. Matthew King","zipcode":"12345-6789","geo":{"lat":"12.3456","lng":"78.9012"},"phone":"987-654-3210","website":"Mr. Matthew King.com","company":{"name":"Mr. Matthew King Esq","catchPhrase":"Mr. Matthew King Esq","bs":"Mr. Matthew King Esq"}}, {"id":73,"name":"Ms. Ashley Lee","username":"Ms. Ashley Lee","email":"Ms. Ashley Lee@Ms. Ashley Lee.com","address":{"street":"Ms. Ashley Lee","suite":"Suite 789","city":"Ms. Ashley Lee","zipcode":"01234-5678","geo":{"lat":"01.2345","lng":"67.8901"},"phone":"456-789-0123","website":"Ms. Ashley Lee.com","company":{"name":"Ms. Ashley Lee LLC","catchPhrase":"Ms. Ashley Lee LLC","bs":"Ms. Ashley Lee LLC"}}, {"id":74,"name":"Mr. Joshua King","username":"Mr. Joshua King","email":"Mr. Joshua King@Mr. Joshua King.com","address":{"street":"Mr. Joshua King","suite":"Suite 012","city":"Mr. Joshua King","zipcode":"90123-4567","geo":{"lat":"90.1234","lng":"56.7890"},"phone":"321-098-7654","website":"Mr. Joshua King.com","company":{"name":"Mr. Joshua King Inc","catchPhrase":"Mr. Joshua King Inc","bs":"Mr. Joshua King Inc"}}, {"id":75,"name":"Mrs. Kaitlyn Green","username":"Mrs. Kaitlyn Green","email":"Mrs. Kaitlyn Green@Mrs. Kaitlyn Green.com","address":{"street":"Mrs. Kaitlyn Green","suite":"Suite 345","city":"Mrs. Kaitlyn Green","zipcode":"89012-3456","geo":{"lat":"89.0123","lng":"45.6789"},"phone":"210-987-6543","website":"Mrs. Kaitlyn Green.com","company":{"name":"Mrs. Kaitlyn Green Corp","catchPhrase":"Mrs. Kaitlyn Green Corp","bs":"Mrs. Kaitlyn Green Corp"}}, {"id":76,"name":"Dr. Christopher White","username":"Dr. Christopher White","email":"Dr. Christopher White@Dr. Christopher White.com","address":{"street":"Dr. Christopher White","suite":"Suite 678","city":"Dr. Christopher White","zipcode":"78901-2345","geo":{"lat":"78.9012","lng":"34.5678"},"phone":"098-765-4321","website":"Dr. Christopher White.com","company":{"name":"Dr. Christopher White MD","catchPhrase":"Dr. Christopher White MD","bs":"Dr. Christopher White MD"}}, {"id":77,"name":"Prof. Benjamin Hall","username":"Prof. Benjamin Hall","email":"Prof. Benjamin Hall@Prof. Benjamin Hall.com","address":{"street":"Prof. Benjamin Hall","suite":"Suite 901","city":"Prof. Benjamin Hall","zipcode":"67890-1234","geo":{"lat":"67.8901","lng":"23.4567"},"phone":"987-654-3210","website":"Prof. Benjamin Hall.com","company":{"name":"Prof. Benjamin Hall PhD","catchPhrase":"Prof. Benjamin Hall PhD","bs":"Prof. Benjamin Hall PhD"}}, {"id":78,"name":"Mr. Matthew King","username":"Mr. Matthew King","email":"Mr. Matthew King@Mr. Matthew King.com","address":{"street":"Mr. Matthew King","suite":"Suite 234","city":"Mr. Matthew King","zipcode":"56789-0123","geo":{"lat":"56.7890","lng":"12.3456"},"phone":"456-789-0123","website":"Mr. Matthew King.com","company":{"name":"Mr. Matthew King Esq","catchPhrase":"Mr. Matthew King Esq","bs":"Mr. Matthew King Esq"}}, {"id":79,"name":"Ms. Ashley Lee","username":"Ms. Ashley Lee","email":"Ms. Ashley Lee@Ms. Ashley Lee.com","address":{"street":"Ms. Ashley Lee","suite":"Suite 567","city":"Ms. Ashley Lee","zipcode":"45678-9012","geo":{"lat":"45.6789","lng":"01.2345"},"phone":"321-098-7654","website":"Ms. Ashley Lee.com","company":{"name":"Ms. Ashley Lee LLC","catchPhrase":"Ms. Ashley Lee LLC","bs":"Ms. Ashley Lee LLC"}}, {"id":80,"name":"Mr. Joshua King","username":"Mr. Joshua King","email":"Mr. Joshua King@Mr. Joshua King.com","address":{"street":"Mr. Joshua King","suite":"Suite 890","city":"Mr. Joshua King","zipcode":"34567-8901","geo":{"lat":"34.5678","lng":"90.1234"},"phone":"210-987-6543","website":"Mr. Joshua King.com","company":{"name":"Mr. Joshua King 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{"id":83,"name":"Prof. Benjamin Hall","username":"Prof. Benjamin Hall","email":"Prof. Benjamin Hall@Prof. Benjamin Hall.com","address":{"street":"Prof. Benjamin Hall","suite":"Suite 789","city":"Prof. Benjamin Hall","zipcode":"01234-5678","geo":{"lat":"01.2345","lng":"67.8901"},"phone":"456-789-0123","website":"Prof. Benjamin Hall.com","company":{"name":"Prof. Benjamin Hall PhD","catchPhrase":"Prof. Benjamin Hall PhD","bs":"Prof. Benjamin Hall PhD"}}, {"id":84,"name
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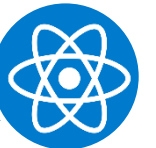
JSON Api Parsing

```
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;
```



Api Call

- Name : Leanne Graham | Email :Sincere@april.biz
- Name : Ervin Howell | Email :Shanna@melissa.tv
- Name : Clementine Bauch | Email :Nathan@yesenia.net
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- Name : Glenna Reichert | Email :Chaim_McDermott@dana.io
- Name : Clementina DuBuque | Email :Rey.Padberg@karina.biz




```

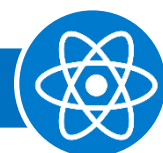
JS App.js M X
src > JS App.js > App > constructor
1 import React from 'react';
2 class App extends React.Component {
3   constructor(props) {
4     super(props);
5     this.state = {
6       items: [],
7       isLoading: false
8     }
9   }
10  componentDidMount() {
11    fetch('https://jsonplaceholder.typicode.com/users')
12      .then(res => res.json())
13      .then(json => {
14        this.setState({
15          isLoading: true,
16          items: json
17        })
18      });
19  }
20  render() {
21    var { isLoading, items } = this.state;
22    if (!isLoading) {
23      return <div>Loading...</div>;
24    }
25    return (
26      <div classname="App">
27        <ul>
28          {items.map(item => (
29            <li key="{item.id}">
30              Name: {item.name} | Email: {item.email}
31            </li>
32          ))}
33        </ul>
34      </div>
35    );
36  }
37 }
38 export default App;

```

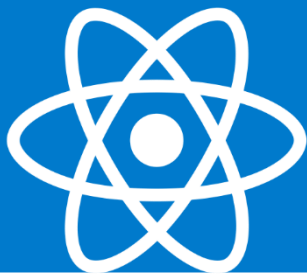
React App

localhost:3000

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- Name: Clementine Bauch | Email: Nathan@yesenia.net
- Name: Patricia Lebsack | Email: Julianne.OConner@kory.org
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- Name: Mrs. Dennis Schulist | Email: Karley_Dach@jasper.info
- Name: Kurtis Weissnat | Email: Telly.Hoeger@billy.biz
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- Name: Glenna Reichert | Email: Chaim_McDermott@dana.io
- Name: Clementina DuBuque | Email: Rey.Padberg@karina.biz

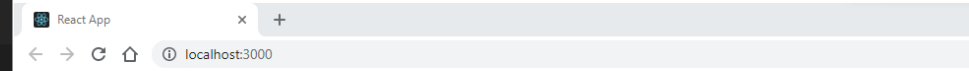


| Hooks

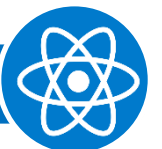


Function Component

```
App.js M X
src > App.js > DataLoader
1 import React, { useState, useEffect } from "react";
2
3 export default function DataLoader() {
4   const [data, setData] = useState([]);
5
6   useEffect(() => {
7     fetch("https://jsonplaceholder.typicode.com/posts")
8       .then(response => response.json())
9       .then(data => setData(data));
10
11   });
12
13   return (
14     <div>
15       <ul>
16         {data.map(mydata => (
17           <li key={mydata.id}>{mydata.title}</li>
18         ))}
19       </ul>
20     </div>
21   );
22 }
```



- sunt aut facere repellat provident occaecati excepturi optio repr
- qui est esse
- ea molestias quasi exercitationem repellat qui ipsa sit aut
- eum et est occaecati
- nesciunt quas odio
- dolorem eum magni eos aperiam quia
- magnam facilis autem
- dolorem dolere est incam

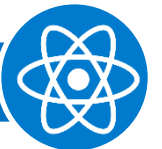


```
import React, { useState, useEffect } from "react";

export default function DataLoader() {
  const [data, setData] = useState([]);

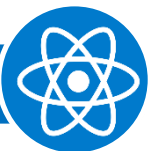
  useEffect(() => {
    fetch("https://jsonplaceholder.typicode.com/posts")
      .then(response => response.json())
      .then(data => setData(data));
  });

  return (
    <div>
      <ul>
        {data.map(mydata => (
          <li key={mydata.id}>{mydata.title}</li>
        ))}
      </ul>
    </div>
  );
}
```



Task

- Print API Response in HTML Table.
 - <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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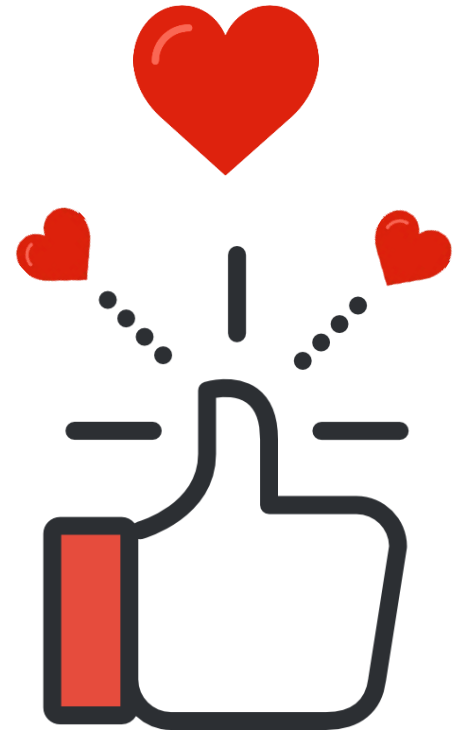
Just Dial

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



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