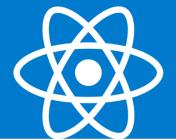# React JS

# FormData API

# FormData

- FormData is simply a data structure that can be used to store key-value pairs.

- you can use it with JavaScript to <u>build an object that corresponds to an HTML form.</u>

- It's mostly useful when you need to send form data to RESTful API endpoints,

# FormData

- You can create a FormData object by instantiating the FormData interface using the new operator as follows:

- **const formData = new FormData()**

# methods

- **append() :**
  - used to append a key-value pair to the object. If the key already exists, the value is appended to the original value for that key,

- **delete():**
  - used to deletes a key-value pair,

- **entries():**
  - returns an Iterator object that you can use to loop through the list the key value pairs in the object,

- **get():**
  - used to return the value for a key. If multiple values are appended, it returns the first value,

- **getAll():**
  - used to return all the values for a specified key,

# has():
- used to check if there's a key,

# keys():
- returns an Iterator object which you can use to list the available keys in the object,

# set():
- used to add a value to the object, with the specified key. This is going to relace the value if a key already exists,

# values():
- returns an Iterator object for the values of the FormData object

# append() method

- The append() method appends a new value onto an existing key inside a FormData object or adds the key if it does not exist.

- The append() method has two forms:

- **FormData.append(name, value)**

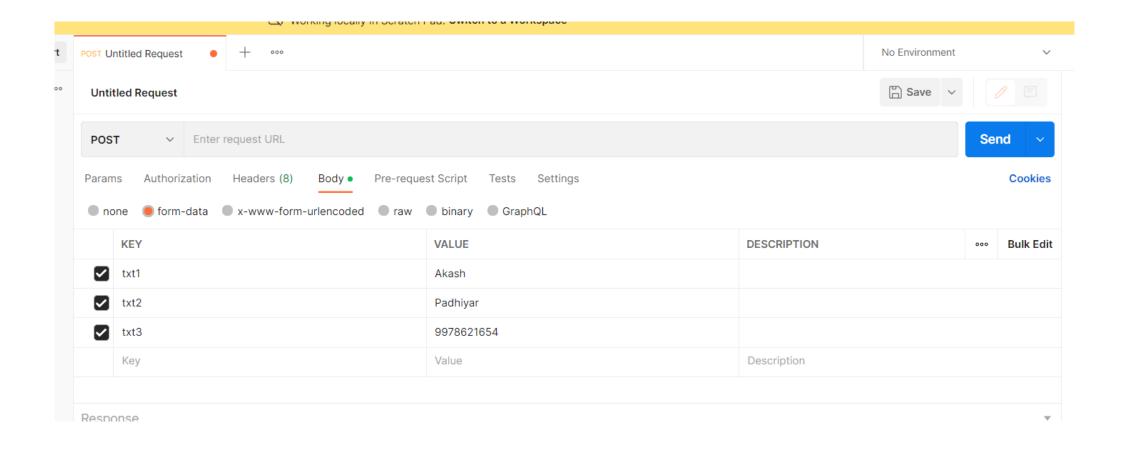- **FormData.append(name, value, file)**

# delete() method

- The delete() method deletes a key/value pair by the name of the key from the FormData object.

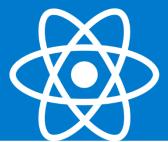- **FormData.delete(name);**

# API as Form Data Key, Value

```js
const formData = new FormData()

formData.append("txt1", "Akash");
formData.append("txt2", "Padhiyar");
formData.append("txt3", 9978621654);

console.log(formData);
```

PROBLEMS    OUTPUT    DEBUG CONSOLE    **TERMINAL**    COMMENTS

```
D:\code\javascript_code\batch1>node demo.js
FormData {
  [Symbol(state)]: [
    { name: 'txt1', value: 'Akash' },
    { name: 'txt2', value: 'Padhiyar' },
    { name: 'txt3', value: '9978621654' }
  ]
}
```

Akash Technolabs                    www.akashsir.com
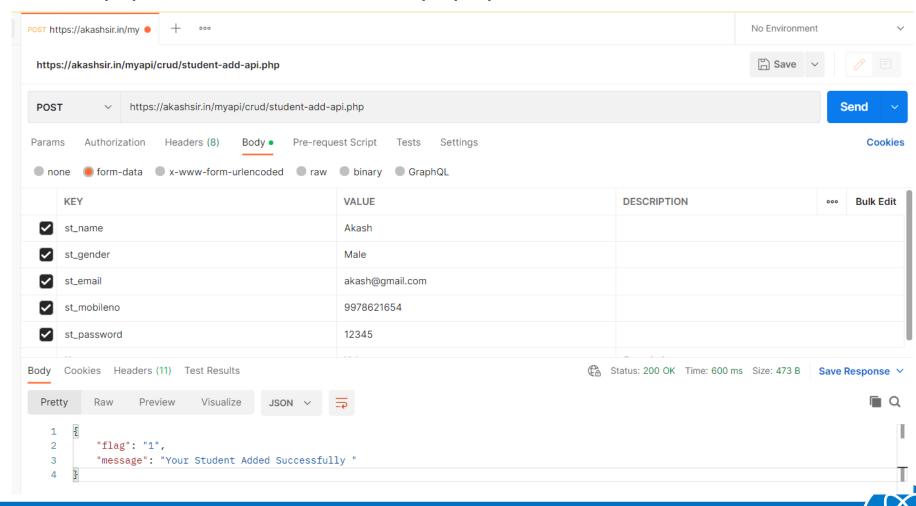
# Submit the FormData using API

# Test this API in PostMan

- URL : https://akashsir.in/myapi/crud/student-add-api.php

- Method : Post

- Parameter:
  - st_name
  - st_gender
  - st_email
  - st_mobileno
  - st_password

# Response

- Check Api Response

Body   Cookies   Headers (11)   Test Results

| Pretty | Raw | Preview | Visualize | JSON ∨ |

```
1   {
2       "flag": "1",
3       "message": "Your Student Added Successfully "
4   }
```

# Create FormData for Passing API Response
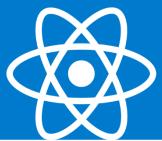
```
const formData = new FormData()

formData.append("apiFieldName", "HtmlFormValue");
```

# Submit Button

Akash Technolabs          www.akashsir.com

# Post Static Data API On Button Click

```js
class App extends React.Component {

  myProcess(event) {
    event.preventDefault();
    var myformdata = new FormData();
      myformdata.append("st_name","Akash");
      myformdata.append("st_gender","Male");
      myformdata.append("st_email","akash@gmail.com");
      myformdata.append("st_mobileno","9978621654");
      myformdata.append("st_password","9978621654");
      //Post API Request
      axios.post("https://akashsir.in/myapi/crud/student-add-api.php",myformdata)
      .then(function(response){
        console.log(response);
      });
  }
  render() {
    return (
      <>
      <h1>Add Record</h1>
        <input type="button" value="Click Me" onClick={this.myProcess.bind(this)} />
      </>
    );
  }
}
export default App;
```
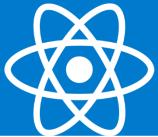
```js
import React from 'react';
import axios from 'axios';
class App extends React.Component {

  myProcess(event) {
    event.preventDefault();
    var myformdata = new FormData();
      myformdata.append("st_name","Akash");
      myformdata.append("st_gender","Male");
      myformdata.append("st_email","akash@gmail.com");
      myformdata.append("st_mobileno","9978621654");
      myformdata.append("st_password","9978621654");
      //Post API Request
      axios.post("https://akashsir.in/myapi/crud/student-add-api.php",myformdata)
      .then(function(response){
        console.log(response);
      });
  }
  render() {
    return (
      <>
      <h1>Add Record</h1>
        <input type="button" value="Click Me" onClick={this.myProcess.bind(this)} />
      </>
    );
  }
}
export default App;
```

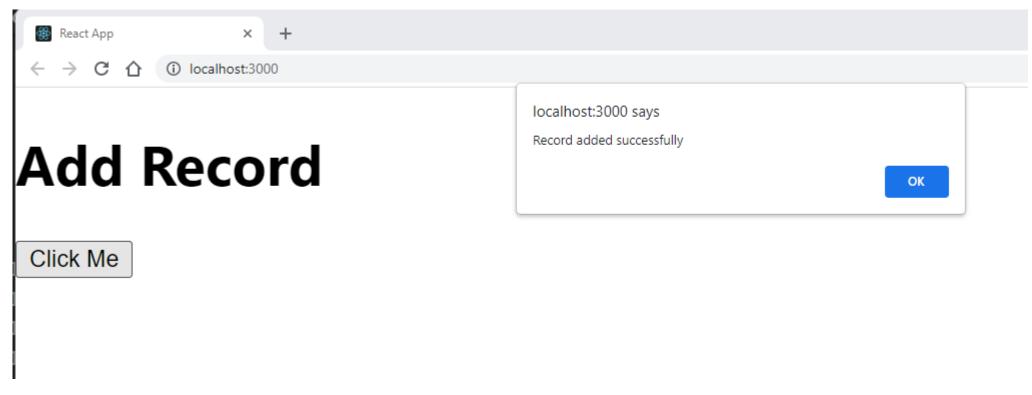# Submit Button 2

# Conditional Based Add Record

```js
JS App.js 1, M  ✕

src > JS App.js > ⚛ App
  1   import React from 'react';
  2   import axios from 'axios';
  3   class App extends React.Component {
  4
  5     myProcess(event) {
  6       event.preventDefault();
  7       var myformdata = new FormData();
  8         myformdata.append("st_name","Akash");
  9         myformdata.append("st_gender","Male");
 10         myformdata.append("st_email","akash@gmail.com");
 11         myformdata.append("st_mobileno","9978621654");
 12         myformdata.append("st_password","9978621654");
 13         //Post API Request
 14         axios.post("https://akashsir.in/myapi/crud/student-add-api.php",myformdata)
 15         .then(function(response){
 16           console.log(response);
 17           if(response.data.flag == '1')
 18           {
 19             alert("Record added successfully");
 20           }
 21         });
 22     }
 23     render() {
 24       return (
 25         <>
 26         <h1>Add Record</h1>
 27           <input type="button" value="Click Me" onClick={this.myProcess.bind(this)} />
 28         </>
 29       );
 30     }
 31   }
 32   export default App;
```
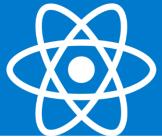
Akash Technolabs          www.akashsir.com

# Condition Based Alert

# Dynamic
# Value Pass Submit

# Method 1

```js
import React from 'react';
import axios from 'axios';

class App extends React.Component
{
    state = {name : '',gender : '',email : '',mobileno : ''}

    handleChange = (event) => {
        this.setState({[event.target.name]: event.target.value});
    }

    handleSubmit = (event) => {
        event.preventDefault();

        let formData = new FormData();
        formData.append('st_name', this.state.name)
        formData.append('st_gender', this.state.gender)
        formData.append('st_email', this.state.email)
        formData.append('st_mobileno', this.state.mobileno)

        axios.post('https://akashsir.in/myapi/crud/student-add-api.php',formData)
        .then(function (response) {
            //handle success
            console.log(response)
            if(response.data.flag == 1)
            {
                var msg = response.data.message;
                console.log('Record Added'+ msg)
            }
        }).catch(function (response) {
            //handle error
            console.log(response)
        });
    };
```
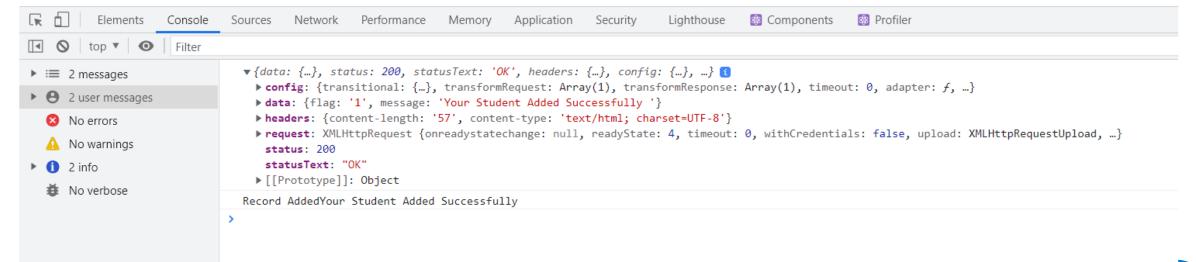
# Method 2

```js
import React from 'react';
import axios from 'axios';
class App extends React.Component
{
    state = {name : '',gender : '',email : '',mobileno : ''}

    handleChange = (event) => {
        this.setState({[event.target.name]: event.target.value});
    }

    handleSubmit = (event) => {
        event.preventDefault();

        let formData = new FormData();
        formData.append('st_name', this.state.name)
        formData.append('st_gender', this.state.gender)
        formData.append('st_email', this.state.email)
        formData.append('st_mobileno', this.state.mobileno)

        axios({
            method: "post",
            url: "https://akashsir.in/myapi/crud/student-add-api.php",
            data: formData,
            headers: { "Content-Type": "multipart/form-data" },
        }).then(function (response) {
            //handle success
            console.log(response)
            if(response.data.flag == 1)
            {
                var msg = response.data.message;
                console.log('Record Added'+ msg)
            }
        }).catch(function (response) {
            //handle error
            console.log(response)
        });
    };
```

```js
    render()
    {
        return(
            <div>
                <form onSubmit={this.handleSubmit}>
                    Name:<input type="text" name="name" onChange={this.handleChange}/>
                    Gender:<input type="text" name="gender" onChange={this.handleChange}/>
                    Email:<input type="text" name="email" onChange={this.handleChange}/>
                    Contact:<input type="text" name="mobileno" onChange={this.handleChange}/>
                    <input type="submit"/>
                </form>
            </div>
        )
    }
}
export default App;
```
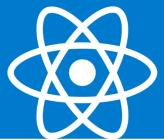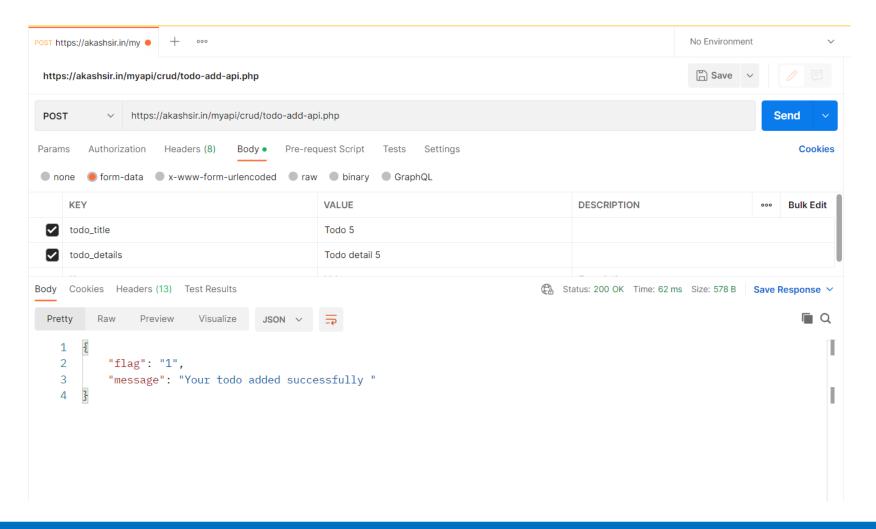
# Testing

# FormData POST API

# FormData POST

# Form Data Post API

```js
import React from 'react';
import axios from 'axios';
class Add extends React.Component {
    constructor(props) {
        super(props);
        this.state = { txt1: '', txt2: '' };
    }
    onChangeControl(event) {
        this.setState({ [event.target.name]: [event.target.value] });
    }
    onSubmitProcess(event) {
        event.preventDefault();
        var myformdata = new FormData();
        myformdata.append('todo_title', this.state.txt1);
        myformdata.append('todo_details', this.state.txt2);
        //API Call
        axios.post("https://akashsir.in/myapi/crud/todo-add-api.php", myformdata)
            .then(function (response) {
                console.warn(response);
                //Check response condition
                if (response.data.flag == "1") {
                    alert("Record Added " + response.data.message);
                } else {
                    alert(response.data.message);
                }
            }).catch(function (response) {
                console.error(response);
            });
    }
```

# Form Data Post API

```js
        render() {
            return (
                <>
                    <h2>Add</h2>
                    <form onSubmit={this.onSubmitProcess.bind(this)}>
                        Title : <input type="text" name="txt1" onChange={this.onChangeControl.bind(this)} /><br />
                        Details : <input type="text" onChange={this.onChangeControl.bind(this)} name="txt2" /><br />
                        <input type="submit" />
                    </form>
                </>
            );
        }
    }
export default Add;
```
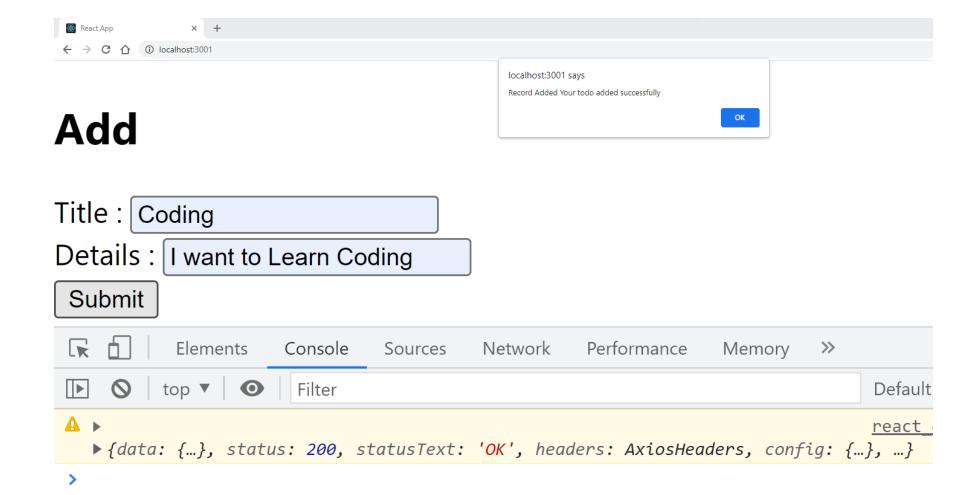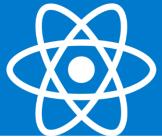
# Code

```
render() {
    return (
        <>
            <h2>Add</h2>
            <form onSubmit={this.onSubmitProcess.bind(this)}>
                Title : <input type="text" name="txt1" onChange={this.onChangeControl.bind(this)} /><br />
                Details : <input type="text" onChange={this.onChangeControl.bind(this)} name="txt2" /><br />
                <input type="submit" />
            </form>
        </>
    );
}
}
export default Add;
```

# Hooks

# Code

- Create State with Blank Object

```js
import React from 'react';
import axios from 'axios';
function App() {
  //Blank Object
  const [myData, myDataUpdate] = React.useState({});

  const onChangeEvent = (e) => {
    myDataUpdate((myData) => ({
      ...myData,
      [e.target.name]: e.target.value
    }));
  }
```

# Code

```js
const submitValue = (event) => {
    event.preventDefault();
    //FormData Key Value
    var myformdata = new FormData();
    myformdata.append("st_name",myData.txt1);
    myformdata.append("st_gender",myData.txt2);
    myformdata.append("st_email",myData.txt3);
    myformdata.append("st_mobileno",myData.txt4);
    myformdata.append("st_password",myData.txt5);
     //Post API Request
     axios.post("https://akashsir.in/myapi/crud/student-add-api.php",myformdata)
     .then(function(response){
       console.log(response);
     });
  }
```

```jsx
    return (
      <div>
        <form onSubmit={submitValue}>
          Name : <input type="text" name='txt1' onChange={onChangeEvent} /> <br/>
          Gender : <input type="text" name='txt2' onChange={onChangeEvent} /><br/>
          Email : <input type="text" name='txt3' onChange={onChangeEvent} /><br/>
          Mobile No : <input type="text" name='txt4' onChange={onChangeEvent} /><br/>
          Password: <input type="text" name='txt5' onChange={onChangeEvent} /><br/>
          <input type="submit" />
        </form>
      </div>
    );
}
export default App;
```

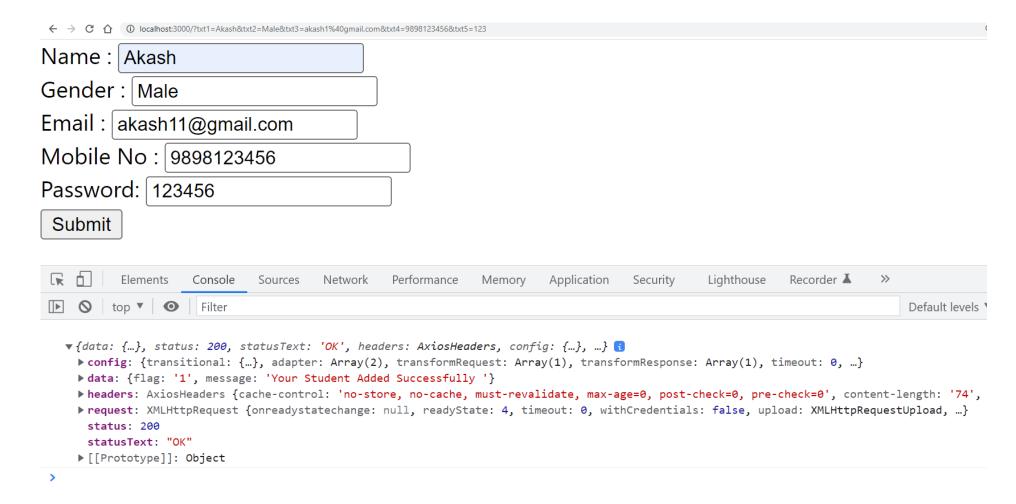Akash Technolabs          www.akashsir.com

# Value Stores as Object

# Console Message

# Get Exclusive
# Video Tutorials

www.aptutorials.com
https://www.youtube.com/user/Akashtips

Get More Details

www.akashsir.com
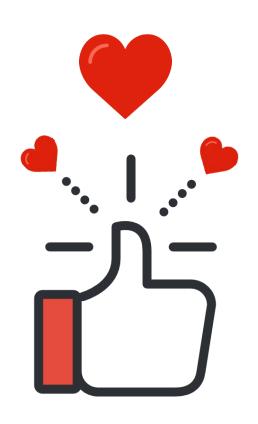
# If You Liked It !
## Rating Us Now

**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

# Connect With Me

# # Social Info

**Akash Padhiyar**
#AkashSir

Akash.padhiyar

Akashpadhiyar

Akash_padhiyar

+91 99786-21654

www.akashsir.com
www.akashtechnolabs.com
www.akashpadhiyar.com
www.aptutorials.com

#Akashpadhiyar
#aptutorials