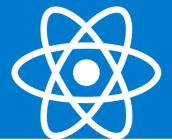


# React JS

# Validation



# Create Component

Create Class Component

```
Js App.js M X
src > Js App.js > [∅] default
       import React from 'react';
       class App extends React.Component {
         constructor(props) {
           super(props);
           this.state = { };
   6
         render() {
   8
           return (
   9
              <h2>React Validation</h2>
  10
           );
  11
  12
  13
       export default App;
```



# **Design State**

State Value will be Display in Textbox

```
Js App.js M X
src > Js App.js > 🝘 default
      import React from 'react';
       class App extends React.Component {
        constructor(props) {
          super(props);
          this.state = {
          username : "",
           password : "",};
        render() {
           const { username, password} = this.state;
           return (
            <React.Fragment>
             <h2>React Validation</h2>
             <form onSubmit={this.onSubmit}>
             Name :<input type="text" name="username" value={username} />
             Password :<input type="text" name="password" value={password} />
             <br/>
             <input type="submit" value="Login"/>
             </form>
             </React.Fragment>
      export default App;
```





# OnChange and OnSubmit

```
Js App.js M X
src > Js App.js > 😭 App
        import React from 'react';
                                                             Js App.js M X
         class App extends React.Component {
                                                             src > Js App.js > ધ App
                                                                     render() {
           constructor(props) {
                                                                       const { username, password} = this.state;
              super(props);
                                                                       return (
                                                                        <React.Fragment>
             this.state = {
                                                                        <h2>React Validation</h2>
             username : "",
                                                                        <form onSubmit={this.onSubmit}>
                                                                        Name :<input type="text" name="username" value={username} onChange={this.onChange.bind(this)} />
              password : "",};
                                                                         <br/>
                                                                        Password :<input type="text" name="password" value={password} onChange={this.onChange.bind(this)} />
   9
           onChange= (e) => {
                                                                        <input type="submit" value="Login"/>
              this.setState({
  10
                                                                        </form>
                                                                        </React.Fragment>
                 [e.target.name]: e.target.value
  11
  12
              });
  13
                                                                   export default App;
  14
           onSubmit = (e) \Rightarrow {
  15
              e.preventDefault();
  16
              console.log("onSubmit",this.state);
  17
```





# Basic Form is Ready with OnChange and Submit ©





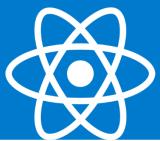
#### **React Validation**

Name : Akash	
Password: 123	
Login	
Elements Console Sources Network Performance Memory Application	
onSubmit ▼Object i  password: "123"  username: "Akash"  ▶ [[Prototype]]: Object	





# Validation Process



# Define Error Object in State

Create Blank Error Object which will stores all error in Object

```
this.state = {
   username: "".
   password: "",
   errors: {}
formValidation = () => {
  const { username, password } = this.state; //Desctucting Assignment
  let isValid = true;
  const errors = {}; //Blank Object
  if (!username) {
   errors.username = "Enter Username";
   isValid = false;
  if (!password) {
   errors.password = "Enter Password";
  isValid = false;
  this.setState({ errors }); //Append Error Object in State
  return is Valid; //Function Return
```



```
src > Js App.js > ⁴ App > ♦ constructor
      import React from 'react';
      class App extends React.Component {
        constructor(props) {
          super(props);
          this.state = {
          username : "",
          password: "",
          errors: {}
        onChange= (e) => {
          this.setState({
            [e.target.name]: e.target.value
        formValidation = () => {
          const { username, password } = this.state; //Desctucting Assignment
          let isValid = true;
          const errors = {}; //Blank Object
          if (!username) {
            errors.username = "Enter Username";
            isValid = false;
          if (!password) {
            errors.password = "Enter Password";
            isValid = false;
          this.setState({ errors }); //Append Error Object in State
          return isValid; //Function Return
```

## Statement

- First we will create blank object in State
  - errors:{}
- Create One Validation Functions which will return Boolean value.(True/False)
- First Define Boolean variable for validating Data.
- Extract /assign state data in variable
- Write if Condition to check state value is present or not
  - If state value is not present then return false in variable and Store Error message in Error Object.
  - So on.....
- At last Error Object data assign to Error State and Return Boolean value.



- If Data is validation Boolean value will return True and Error Object will return blank.
- Create Submit Event on Submit Print Error Value in Console





## OnSubmit Call Validation

```
onSubmit = (e) =>{
  e.preventDefault();
  const isValid = this.formValidation(); //get Valid
  console.log("onSubmit",this.state);
}
```

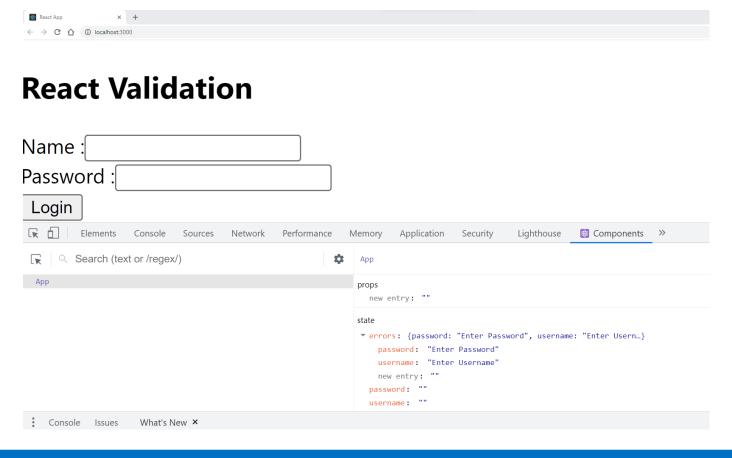
```
us App.js 1, M X
src > Js App.js > 😭 App > \beta onSubmit
       //Validation
 17
         formValidation = () => {
           const { username, password } = this.state; //Desctucting Assignment
          let isValid = true;
           const errors = {}; //Blank Object
           if (!username) {
             errors.username = "Enter Username";
            isValid = false;
           if (!password) {
             errors.password = "Enter Password";
             isValid = false;
           this.setState({ errors }); //Append Error Object in State
           return isValid; //Function Return
         onSubmit = (e) =>{
           e.preventDefault();
           const isValid = this.formValidation(); //get Validation
          console.log("onSubmit",this.state);
 38
```





# **OnSubmit**

 OnSubmit Error Message will Append in Errors Object and we can access from React Developer Tool

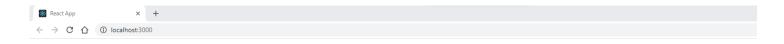




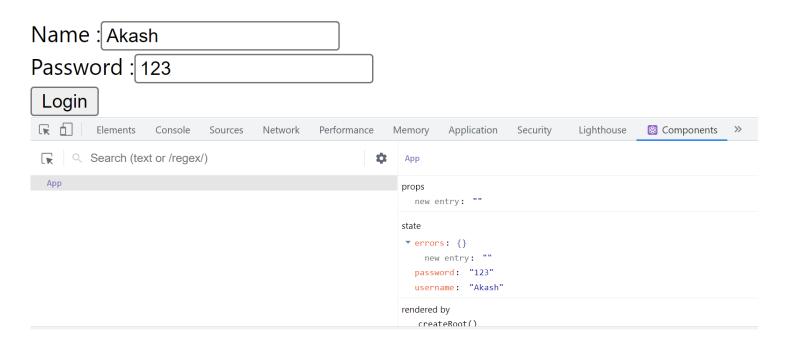


### Validate Data

On Valid Details Error Message will Hide



#### **React Validation**







# Print Error Using Map

```
Js App.js 1, M X
src > Js App.js > ♣ App > ♠ render
        render() {
           const { username, password,errors } = this.state;
          return (
            <React.Fragment>
            <h2>React Validation</h2>
            <form onSubmit={this.onSubmit}>
 46
             {Object.keys(errors).map((key) => {
                return <div style={{ color: 'red' }} key={key}>{errors[key]}</div>
              })}
            Name :<input type="text" name="username" value={username} onChange={this.onChange.bind(this)} />
             <br/>
             Password :<input type="text" name="password" value={password} onChange={this.onChange.bind(this)} />
            <input type="submit" value="Login"/>
            </form>
            </React.Fragment>
 61 export default App;
```





# **Error Display**



#### **React Validation**

Enter Username Enter Password Name: Password: Login		
Elements Console Sources Network Performance	Memory Ap	pplication Security Lighthouse Recorder 🛦 🧑 Components 🔞 Profiler
Search (text or /regex/)	*	Арр
Арр		props new entry: ""
		state  ▼ errors: {password: "Enter Password", username: "Enter Usern}  password: "Enter Password"  username: "Enter Username"  new entry: ""  password: ""  username: ""

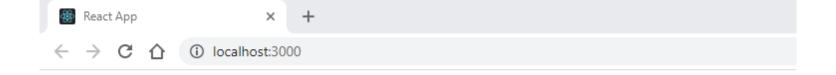




### **OnSubmit Print Data and Clear State**

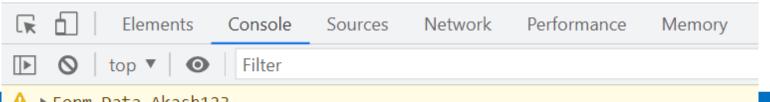
```
Js App.js M X
src > Js App.js > 😭 App
  33
         onSubmit = (e) \Rightarrow {
           e.preventDefault();
           const isValid = this.formValidation(); //get Validation
           if (isValid) {
             console.warn("Form Data "+ this.state.username + this.state.password); // Print State Value
             this.setState({ username: "", password: "", errors: {} }); // Remove State Value and Assign Blank
  41
  42
  43
         render() {
           const { username, password,errors } = this.state;
           return (
  47
             <React.Fragment>
             <h2>React Validation</h2>
             <form onSubmit={this.onSubmit}>
  51
             {Object.keys(errors).map((key) => {
  52
                 return <div style={{ color: 'red' }} key={key}>{errors[key]}</div>
               })}
             Name :<input type="text" name="username" value={username} onChange={this.onChange.bind(this)} />
              <br/>
```





# **React Validation**

Name:		
Passwo	ord :	
Login		







# Example

<span style={{color: "red"}} >{this.state.errors.username}</span>

```
Js App.js 1 X
src > 👊 App.js > 🙉 default
        render() {
          const { username, password, errors } = this.state;
          return
            <React.Fragment>
              <h2>React Validation</h2>
              <form onSubmit={this.onSubmit}>
               Name :<input type="text" name="username" value={username} onChange={this.onChange.bind(this)} />
               <span style={{color: "red"}} >{this.state.errors.username}</span>
               Password :<input type="text" name="password" value={password} onChange={this.onChange.bind(this)} />
               <span style={{color: "red"}} >{this.state.errors.password}</span>
                                                                                                     <input type="submit" value="Login" />
              </form>
            </React.Fragment>
                                                                                                    React Validation
      export default App;
                                                                                                    Name :
                                                                                                                                           Enter Username
                                                                                                    Password:
                                                                                                                                               Enter Password
                                                                                                     Login
```





```
import React from 'react';
class App extends React.Component {
 constructor(props) {
  super(props);
  this.state = {
  username: "",
  password: "",
  errors: {}
 onChange= (e) => {
  this.setState({
   [e.target.name]: e.target.value
//Validation
 formValidation = () => {
  const { username, password } = this.state; //Desctucting Assignment
  let isValid = true;
                                                                                           })}
  const errors = {}; //Blank Object
  if (!username) {
   errors.username = "Enter Username";
   isValid = false;
  if (!password) {
   errors.password = "Enter Password";
   isValid = false;
  this.setState({ errors }); //Append Error Object in State
  return isValid; //Function Return
```

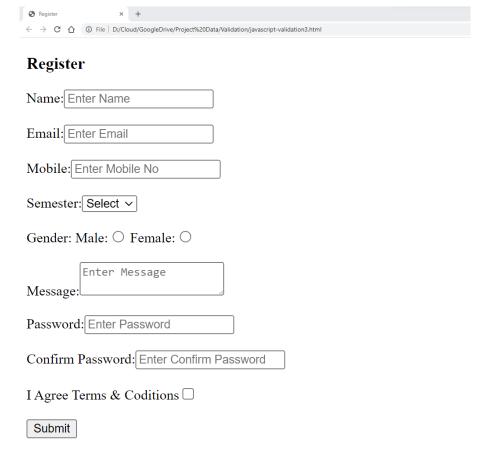
```
onSubmit = (e) => {
  e.preventDefault();
 const isValid = this.formValidation(); //get Validation
  if (isValid) {
   console.warn("Form Data "+ this.state.username + this.state.password); // Print State Value
  this.setState({ username: "", password: "", errors: {} }); // Remove State Value and Assign Blank
 render() {
  const { username, password,errors } = this.state;
  return (
   <React.Fragment>
   <h2>React Validation</h2>
   <form onSubmit={this.onSubmit}>
   {Object.keys(errors).map((key) => {
     return <div style={{ color: 'red' }} key={key}>{errors[key]}</div>
   Name :<input type="text" name="username" value={username} onChange={this.onChange.bind(this)} />
   <br/>
   Password :<input type="text" name="password" value={password} onChange={this.onChange.bind(this)} />
   <input type="submit" value="Login"/>
   </form>
   </React.Fragment>
export default App;
```





# Task

- Make Same Form in Class with Proper Validation
- Create Same program using Hooks







```
if (!values.name) {
       errors.name = 'Name is required';
    } else if (values.name.length > 15) {
      errors.name = 'Must be 15 characters or less';
    if (!values.email) {
       errors.email = 'Email is required';
    } else if (!/^[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-
Z]{2,4}$/i.test(values.email)) {
      errors.email = 'Invalid email address';
```





```
const validateEmployee = empData => {
 const errors = {};
 if (!empData.Name) {
  errors.Name = 'Please Enter Employee Name';
 } else if (empData.Name.length > 20) {
  errors.Name = 'Name cannot exceed 20 characters';
 if (!empData.Location) {
  errors.Location = 'Please Enter Employee Location';
 if (!empData.EmailId) {
  errors.EmailId = 'Please Enter Email ID';
 else if (!/^[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z0-9._]+
Z]{2,4}$/i.test(empData.EmailId)) {
  errors.EmailId = 'Invalid email address';
 return errors;
```





### Validation Rules

- All Fields must be required
- Name must be Character ,
- Minimum 2 Character required in Name and Maximum 10 Characters.
- Email must be Valid Format
- Mobile Number must be == 10 Digits only
- Password and Confirm Password Must be Same.
- Take a Radio, CheckBox and Dropdown Field in Form with Proper Validation.





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