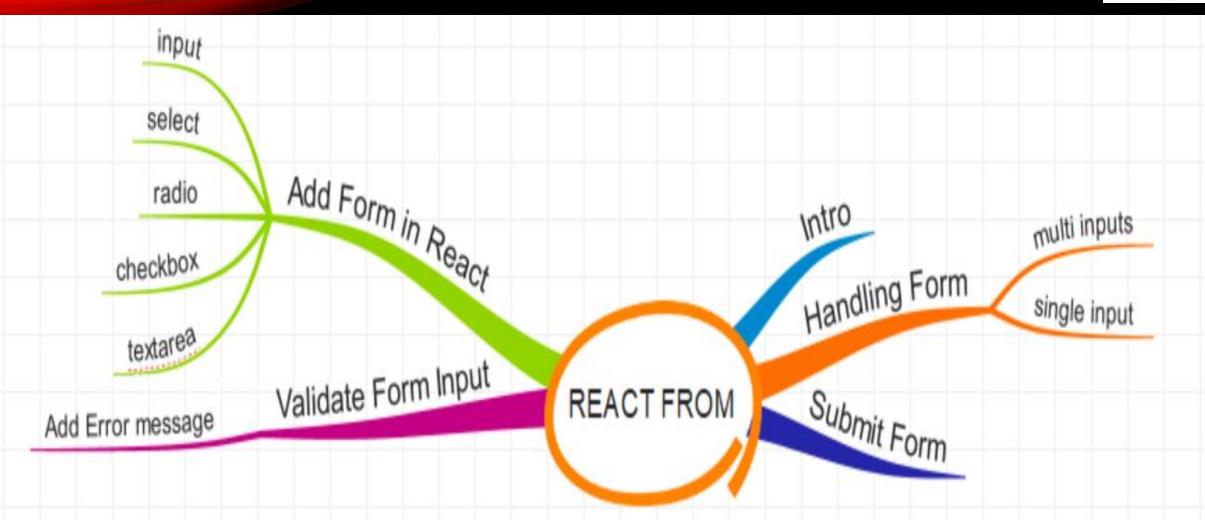




Alliance with FPT Education



#### INTRO



- Just like in HTML, React uses forms to allow users to interact with the web page.
- Forms are integral to any modern application. They serve as a basic medium for users to interact with your app.
- In this session, we will learn how to use forms in React.
- Developers rely on forms for everything: securely logging in the user, searching and filtering the product list, booking a product, and building a cart, etc.

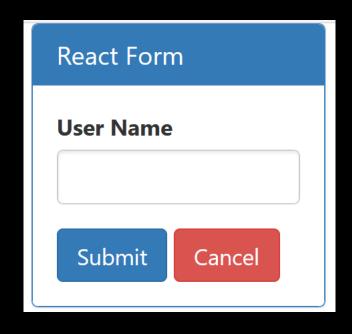
#### INTRO

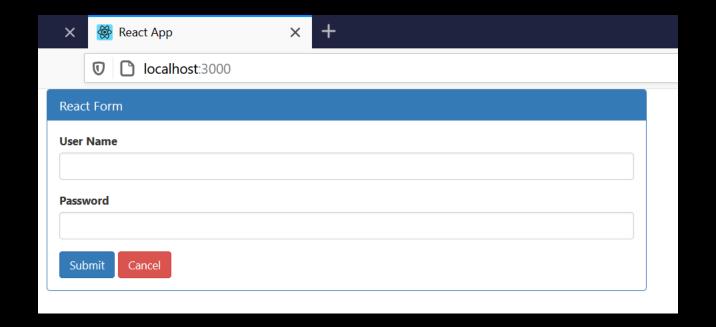


 Forms are very useful in any web application. Unlike with Angular and AngularJS, which give you form validation out of the box, you have to handle forms yourself in React. This brings about many complications, like how to get form values, how to manage form state, and how to validate a form on the fly and show validation messages.

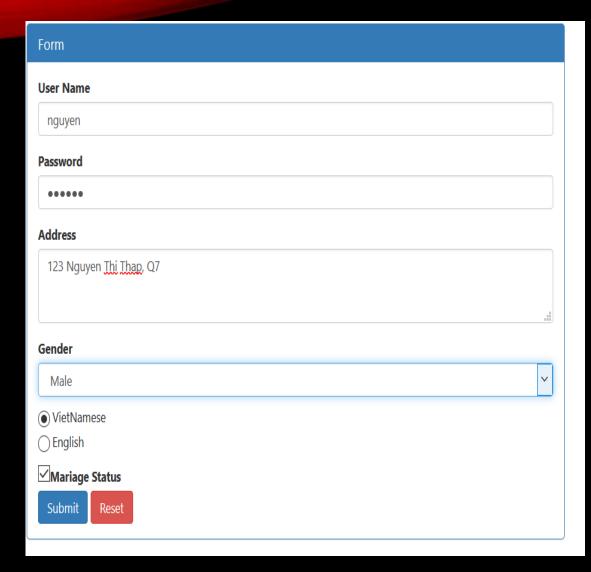
# SOME REACT FORM











Enter your name		
Age		
Enter your age		
Gender		
Select Gender		~
Skills		
☐ Programming ☐ Develo	opment Design Testing	
About you.		
About you.	ence and skills	



 There are two types of form input in React. We have the uncontrolled input and the controlled input. The uncontrolled input are like traditional HTML form inputs, in that they remember what you typed. We will use ref to get the form values.



- There are two main ways of handling forms in React, which differ on a fundamental level: how data is managed.
- if the data is handled by the DOM, we call them uncontrolled components
- if the data is handled by the components we call them controlled components

### REACT FORM - EXAMPLE



```
class Form extends React.Component {
  constructor(props) {
    super(props)
   this.state =
                   username:
 handleChange(event) {}
 render() {
    return (
      <form>
        Username:
        <input
          type="text"
          value={this.state.username}
          onChange={this.handleChange}
      </form>
```

### REACT FORM - EXAMPLE



 With class components, in order to set the new state, we must bind this to the handleChange method, otherwise this is not accessible from within that method:

```
class Form extends React.Component {
  constructor(props) {
    super(props)
    this.state = { username: '' }
    this.handleChange = this.handleChange.bind(this)
  handleChange(event) {
    this.setState({ username: event.target.value })
  render() {
    return (
      <form>
        <input</pre>
          type="text"
          value={this.state.username}
          onChange={this.handleChange}
      </form>
```

### REACT FORM - EXAMPLE



```
class Form extends React.Component {
 constructor(props) {
   super(props)
   this.state = { username: ''
   this.handleChange = this.handleChange.bind(this)
   this.handleSubmit = this.handleSubmit.bind(this)
 handleChange(event) {
   this.setState({ username: event.target.value })
 handleSubmit(event) {
   alert(this.state.username)
   event.preventDefault()
```

```
render() {
 return
    <form onSubmit={this.handleSubmit}>
      <input</pre>
        type="text"
        value={this.state.username}
        onChange={this.handleChange}
      <input type="submit" value="Submit" />
    </form>
```

• Similarly, we use the onSubmit attribute on the form to call the handleSubmit method when the form is submitted:

### REACT FORM - HOOKS

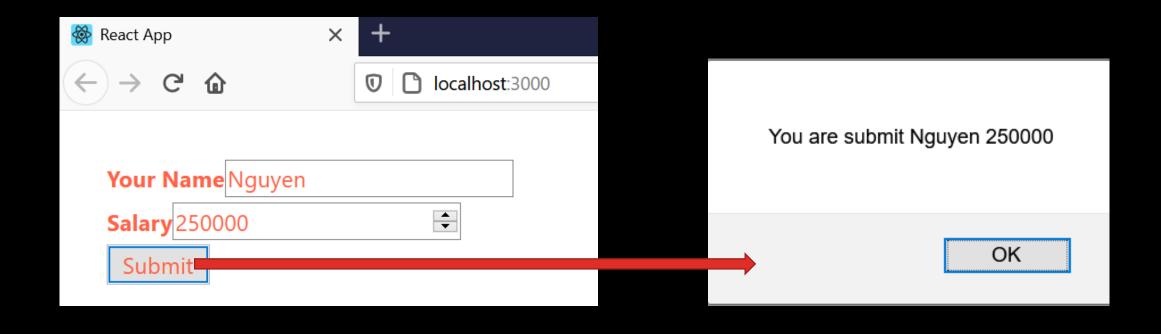
```
const Form = props => {
  const [username, setUsername] = useState()
 const handleChangeUsername = e => {
    setUsername(e.target.value)
  const handleSubmit = event => {
    alert(username)
    event.preventDefault()
  render() {
    return
      <form onSubmit={handleSubmit}>
        Username:
        <input
          type="text"
          value={username}
          onChange={handleChangeUsername}
      </form>
```



# USING <u>HOOKS</u> IT'S ALL MUCH <u>SIMPLER</u>:

# ACTIVITY





#### SOLUTION



```
Js index.js > ...
  You, a few seconds ago | 1 author (You)
  import React from 'react';
                                  You, 3 days ago • Initialize project using Create
  import ReactDOM from 'react-dom';
  import './index.css';
 You, a few seconds ago | 1 author (You)
  class FormComponent extends React.Component
    constructor(props) {
      super(props);
      this.state = {
       username: '',
        salary: 0
    handleChange = (event) => {
      this.setState(
          [event.target.name]: [event.target.value]
        });
   handleSubmit = (event) => {
      alert("You are submit " + this.state.username +" " + this.state.salary);
      event.preventDefault();
```

```
us index.js X
> 🗾 index.js 🗦 ધ FormComponent 🗦 🗘 render
    render()
       return
         <form className="fr" onSubmit={this.handleSubmit} >
           <label>Your Name</label>
           <input type="text" name="username" value={this.state.txtData} onChange={this.handleChange} />
           <br />
           <label>Salary</label>
           <input type="number" name="salary"</pre>
             value={this.state.salary}
             onChange={this.handleChange}
           <br />
           <input type="submit"</pre>
             value="Submit" />
         </form>
   ReactDOM.render(
    <FormComponent/>,
    document.getElementById('root'
```

#### SOLUTION



```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
You, a few seconds ago | 1 author (You)
class FormComponent extends React.Component
  constructor(props) {
    super(props);
    this.state = {
      username:
      salary: 0
                      You, a few seconds ago • Uncommitted changes
  handleChange = (event) => {
   this.setState(
        [event.target.name]: [event.target.value]
      });
  handleSubmit = (event) => {
    alert("You are submit " + this.state.username +" " + this.state.salary);
    event.preventDefault();
```

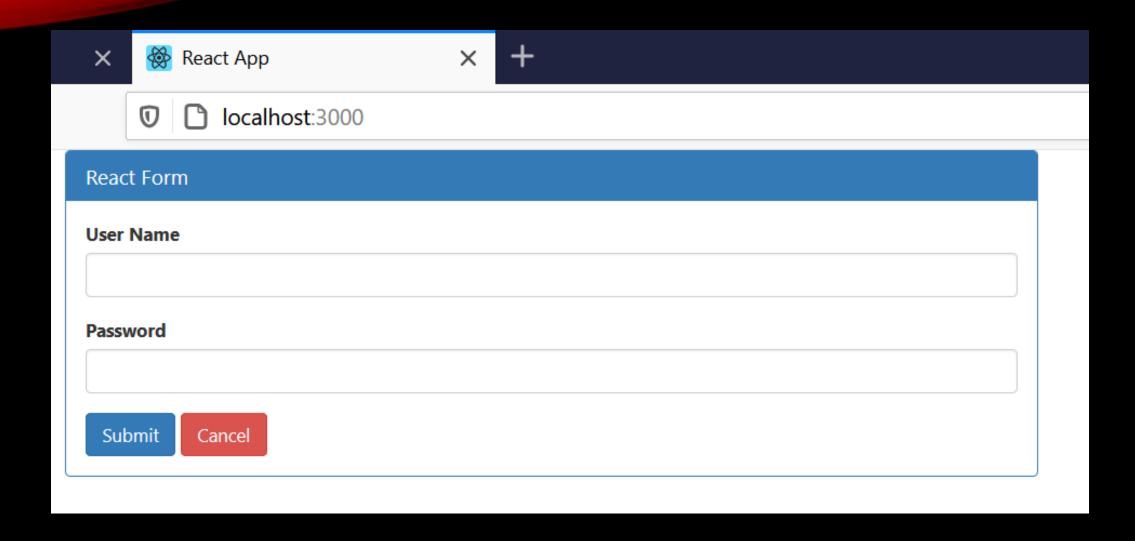
#### SOLUTION



```
render() {
    return
      <form className="fr" onSubmit={this.handleSubmit} >
        <label>Your Name</label>
        <input type="text" name="username" value={this.state.txtData} onChange={this.handleChange} />
        <br />
        <label>Salary</label>
        <input type="number" name="salary"</pre>
          value={this.state.salary}
          onChange={this.handleChange}
        <br />
        <input type="submit"</pre>
          value="Submit" />
      </form>
ReactDOM.render(
  <FormComponent/>,
  document.getElementById('root'
```

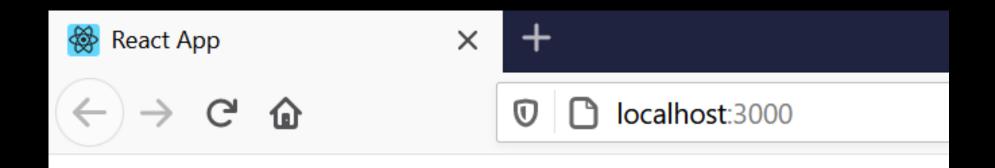
# DEMO





#### DEMO



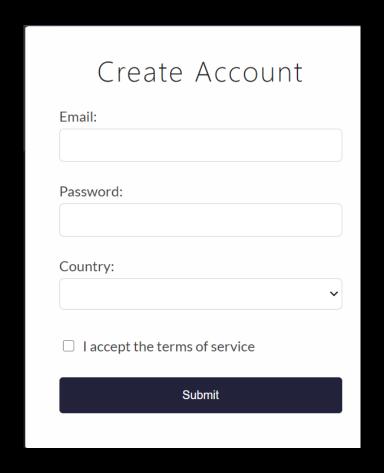


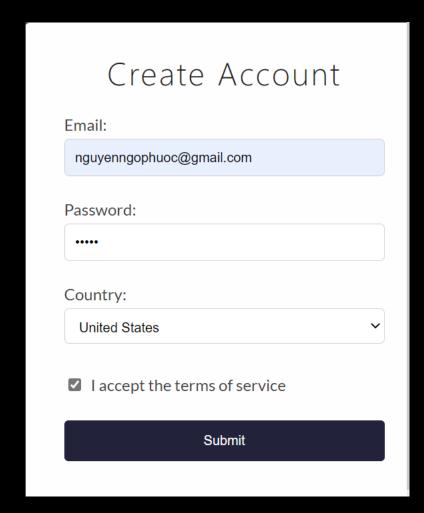
### Welcome, Nguyen Ngo Phuoc

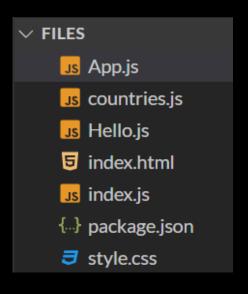
Enter your name:

Nguyen Ngo Phuoc











```
= m
Js App.js
          ×
                                                                                       return
                                                                                         <form onSubmit={handleSubmit}</pre>
         import React, { Component } from "react";
                                                                                           <h1>Create Account</h1>
         import countries from "./countries";
         export default function App()
                                                                                             Email:
                                                                               26
          const [email, setEmail] = React.useState("");
          const [password, setPassword] = React.useState("");
                                                                                               name="email"
           const [country, setCountry] = React.useState("");
                                                                                               type="email"
          const [acceptedTerms, setAcceptedTerms] = React.useState(false);
                                                                                               value={email}
                                                                                               onChange={e => setEmail(e.target.value)}
           const handleSubmit = (event) => {
                                                                                               required />
             console.log(
               Email: ${email}
               Password: ${password}
               Country: ${country}
                                                                                             Password:
              Accepted Terms: ${acceptedTerms}
             `);
                                                                                               name="password"
                                                                                               type="password"
             event.preventDefault();
                                                                                               value={password}
                                                                                               onChange={e => setPassword(e.target.value)}
                                                                                               required />
```



```
44
46
             Country:
47
             <select
               name="country"
               value={country}
49
               onChange={e => setCountry(e.target.value)}
               required>
               <option key=""></option>
               {countries.map(country => (
                 <option key={country}>{country}</option>(
               ))]
               name="acceptedTerms"
               type="checkbox"
               onChange={e => setAcceptedTerms(e.target.value)}
               required />
             I accept the terms of service
           <button>Submit
         </form>
       );
```

```
us countries.js ×
          export default [
            'Albania',
            'Andorra',
            'Armenia',
            'Austria',
            'Azerbaijan',
            'Belarus',
            'Belgium',
            'Bosnia & Herzegovina',
            'Bulgaria',
            'Croatia',
            'Cyprus',
            'Czech Republic',
            'Denmark',
            'Estonia',
            'Finland'.
            'France',
            'Georgia',
            'Germany',
            'Greece',
```



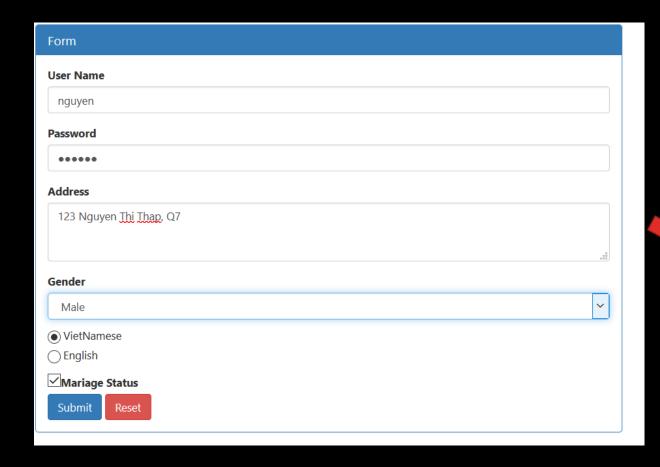
```
₃ index.js ×
```

```
import React from "react";
import ReactDOM from "react-dom";
import App from "./App";
```

```
ReactDOM.render(<App />, document.getElementById("root"));
```

### DEMO





# THE END