

## **React Forms**

- You need to Design Forms to handle the User Input.
- Forms (User Input) can be Handle in Two Ways
  - 1. Controlled Components
  - 2. Uncontrolled Components

#### 1) Controlled Components

- An input form element whose value is controlled by React in this way is called a "controlled component".
- With a controlled component, the input's value is always driven by the React state.

#### 2) **Uncontrolled Components**

- In most cases, It is recommend using controlled components to implement forms.
- In a controlled component, form data is handled by a React component.
- The alternative is uncontrolled components, where form data is handled by the DOM itself.
- To write an uncontrolled component, instead of writing an event handler for every state update, you can use a ref to get form values from the DOM.

## <u>Lab21: Forms Example using Controlled Components</u> <u>Lab21: Files Required:</u>

1. index.html	2. index.js
3. index.css	4. App.js
5. LoginForm.js	

- 1. index.html
- 2. index.js
- 3. index.css
- 4. <u>App.js</u>

```
import React, { Component } from 'react';
import 'bootstrap/dist/css/bootstrap.min.css';
import LoginForm from './LoginForm';

class App extends Component {
   render() {
    return (
        <div className="card">
        <div className="card-header">
        <h2 className="text-center">Welcome to Java Learning Center</h2>
        </div>
    </div>
```



```
<div className="card-body">
      <LoginForm/>
     </div>
     </div>
    );
    }
   export default App;
5. LoginForm.js
   import React, { Component } from 'react';
   class LoginForm extends Component {
     state = {
       username: ",
       password:"
    }
     mychangeHandler = (myevent) => {
       myevent.preventDefault();
       console.log("mychangeHandler");
      this.setState({
         [myevent.target.name]: myevent.target.value,
      })
      };
     myclickHandler = (myevent) => {
       myevent.preventDefault();
       console.log("myclickHandler");
      console.log(this.state);
      };
      mysubmitHanlder = (myevent) => {
       myevent.preventDefault();
       console.log("mysubmitHanlder");
       console.log(this.state);
       //Do the Validations
       //Make API Calls
      //Reset the Form
      };
```



```
render() {
  return (
 <div className="container col-md-6">
<h2 className="text-center">Login Form</h2>
<form onSubmit={this.mysubmitHanlder}>
 <label htmlFor="username"> Username </label>
   <input type="text"
    id="username"
    name="username"
    className="form-control form-control-lg"
    placeholder="Enter Username..."
    value={this.state.username}
    <label htmlFor="password"> Password </label>
  <input type="password"
    id="password"
    name="password"
    className="form-control form-control-lg"
    placeholder="Enter Password..."
    value={this.state.password}
    onChange={this.mychangeHandler} />
                                   <button type="submit"
    onClick={this.myclickHandler}
    className="btn btn-primary btn-lg" > <h2>Login Now</h2> </button>
  </form>
</div>
  );
}
```

export default **LoginForm**;



## <u>Lab22: Forms Example using UN-Controlled Components</u> <u>Lab22: Files Required:</u>

1. index.html	2. index.js
3. index.css	4. App.js
5. LoginForm.js	

- 1. index.html
- 2. index.js
- 3. index.css
- 4. <u>App.js</u>

```
import React, { Component } from 'react';
import 'bootstrap/dist/css/bootstrap.min.css';
import LoginForm from './LoginForm';
class App extends Component {
 render() {
 return (
 <div className="card">
 <div className="card-header">
  <h2 className="text-center">Welcome to Java Learning Center</h2>
 </div>
 <div className="card-body">
   <LoginForm/>
 </div>
 </div>
 );
export default App;
```

## 5. <u>LoginForm.js</u>

```
import React, { Component } from 'react';
class LoginForm extends Component {
  static defaultProps = {
    username: "Srinivas",
    password: "Hello123",
  };
```



```
constructor(props) {
super(props);
this.usernameInput = React.createRef(); //300
this.passwordInput = React.createRef(); //500
}
 myclickHandler = (myevent) => {
  myevent.preventDefault();
  console.log("myclickHandler");
  console.log("UN: ",this.usernameInput.current.value);
  console.log("PW: ",this.passwordInput.current.value);
 };
 mysubmitHanlder = (myevent) => {
  myevent.preventDefault();
  console.log("mysubmitHanlder");
  console.log("UN: ",this.usernameInput.current.value);
  console.log("PW: ",this.passwordInput.current.value);
  //Do the Validations
  //Make API Calls
  //Reset the Form
 };
render() {
 return (
<div className="container col-md-6">
<h2 className="text-center">Login Form</h2>
<form onSubmit={this.mysubmitHanlder}>
<label htmlFor="username"> Username </label>
  <input type="text"
    id="username"
    name="username"
    className="form-control form-control-lg"
    placeholder="Enter Username..."
    defaultValue={this.props.username}
    ref={this.usernameInput} />
```



```
<label htmlFor="password"> Password </label>
   <input type="text"
    id="password"
    name="password"
    className="form-control form-control-lg"
    placeholder="Enter Password..."
    defaultValue={this.props.password}
    ref={this.passwordInput} />
   <button type="submit"
    onClick={this.myclickHandler}
    className="btn btn-primary btn-lg" >
    <h2>Login Now</h2>
   </button>
   Welcome to {this.props.username}
</form>
</div>
  );
}
export default LoginForm;
```



# <u>Lab23: Forms Example using Controlled Components</u>

### **Lab23: Files Required:**

1. index.html	2. index.js
3. index.css	4. App.js
5. AddBook.js	

### 1. index.html

#### 2. index.css

## 3. index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import 'bootstrap/dist/css/bootstrap.min.css';
import './index.css';
import App from './App';
ReactDOM.render(<App />, document.getElementById('myroot'));
```

### 4. App.is

export default App;



## 5. AddBook.js

```
import React, { Component } from 'react';
import classnames from 'classnames';
class AddBook extends Component {
state = {
bookId: ",
bookName:",
author: ",
price:",
pub: ",
myerrors:{}
}
mychangeHandler = (myevent) => {
myevent.preventDefault();
console.log("mychangeHandler");
this.setState({
[myevent.target.name]: myevent.target.value,
})
};
mysubmitHanlder = (myevent) => {
myevent.preventDefault();
console.log("mysubmitHanlder");
//1.Do the Validations
if(this.validateBookForm()){
//2.Make API Calls
console.log("Before Reset",this.state);
//3.Reset the Form
this.setState({
bookId: ",
bookName:",
author: ",
price: ",
pub: ",
```



```
myerrors: {}
});
console.log("After Reset",this.state);
}
};
validateBookForm(){
console.log("validateBookForm");
const {bookId,bookName,author,price,pub} = this.state;
let isValid = true;
let errors= { }; //Errors here temporarly
if(bookId===null || bookId.length===0){
isValid=false;
errors["mybookId"] ="BookId is Required";//
}else if(bookId.length<=4){</pre>
isValid=false;
errors["mybookId"] ="BookId minlength is 5";//
}else if(bookId.length>=8){
isValid=false;
errors["mybookId"] = "BookId maxlength is 7";//
}
if(bookName===null || bookName.length===0){
isValid=false;
errors["mybookName"] = "BookName is Required";//
}else if(bookName.length<=5){</pre>
isValid=false;
errors["mybookName"] = "BookName minlength is 5";//
}else if(bookName.length>=11){
isValid=false;
errors["mybookName"] = "BookName maxlength is 7";//
}
```



```
if(author===null || author.length===0){
isValid=false;
errors["myauthor"] ="Author is Required";//
}else if(author.length<=5){</pre>
isValid=false;
errors["myauthor"] ="Author minlength is 5";//
}else if(author.length>=11){
isValid=false;
errors["myauthor"] ="Author maxlength is 7";//
}
if(price===null || price.length===0){
isValid=false;
errors["myprice"] = "Price is Required";//
}
if(pub===null || pub.length===0){
isValid=false;
errors["mypub"] ="Pub is Required";//
}
this.setState({
myerrors: errors
});
return isValid;
} //end of Function
render() {
const {bookId,bookName,author,price,pub} = this.state;
return (
<div className="container col-md-6">
<h2 className="text-center">AddBook Form</h2>
<form onSubmit={this.mysubmitHanlder}>
```



```
<div className="form-group">
<label htmlFor="bookId" > Book Id </label>
      <input type="text"
            name="bookId"
            className={classnames("form-control form-control-lg",
                   {"is-invalid":this.state.myerrors.mybookId,"
                   is-valid":!this.state.myerrors.mybookId})}
            placeholder="Enter BookId..."
            value={bookId}
            onChange={this.mychangeHandler}/>
<div className="text-danger"> {this.state.myerrors.mybookId} </div>
</div>
<div className="form-group">
<label htmlFor="bookName" > Book Name </label>
      <input type="text"
            name="bookName"
            className={classnames("form-control form-control-lg",
                          {"is-invalid":this.state.myerrors.mybookName,"
                         is-valid":!this.state.myerrors.mybookName})}
            placeholder="Enter Book Name..."
            value={bookName}
            onChange={this.mychangeHandler}/>
<div className="text-danger"> {this.state.myerrors.mybookName} </div>
</div>
<div className="form-group">
<label htmlFor="author" > Author </label>
      <input type="text"
            name="author"
            className={classnames("form-control form-control-lg",
                   {"is-invalid":this.state.myerrors.myauthor,
                   "is-valid":!this.state.myerrors.myauthor})}
            placeholder="Enter Author..."
            value={author}
            onChange={this.mychangeHandler}/>
<div className="text-danger"> {this.state.myerrors.myauthor} </div>
</div>
```



```
<div className="form-group">
<label htmlFor="price" > Price </label>
      <input type="text"
             name="price"
             className={classnames("form-control form-control-lg",
                    {"is-invalid":this.state.myerrors.myprice,
                    "is-valid":!this.state.myerrors.myprice})}
             placeholder="Enter Price..."
             value={price}
             onChange={this.mychangeHandler}/>
<div className="text-danger"> {this.state.myerrors.myprice} </div>
</div>
<div className="form-group">
<label htmlFor="pub" > Publiccations </label>
      <input type="text"
             name="pub"
             className={classnames("form-control form-control-lg",
                   {"is-invalid":this.state.myerrors.mypub,
                   "is-valid":!this.state.myerrors.mypub})}
             placeholder="Enter Pub..."
             value={pub}
             onChange={this.mychangeHandler}/>
<div className="text-danger"> {this.state.myerrors.mypub} </div>
</div>
<input type="submit" value="Add Book" className="btn btn-primary btn-lg"/>
</form>
</div>
);
}
}
export default AddBook;
```



## <u>Lab24: Forms Example using Controlled Components</u> <u>Lab24: Files Required:</u>

1. index.html	2. index.js
3. index.css	4. App.js
5. AddBook.js	6. MyTextInput1.js
7. MyTextInput.js	

#### 1. index.html

### 2. index.css

#### 3. index.is

```
import React from 'react';
import ReactDOM from 'react-dom';

import 'bootstrap/dist/css/bootstrap.min.css';
import './index.css';

import App from './App';

ReactDOM.render(<App />, document.getElementById('myroot'));
```

## 4. **App.is**

export default **App**;



```
5. AddBook.js
import React, { Component } from 'react';
import MyTextInput from '../mycomponents/MyTextInput';
import MyTextInput1 from '../mycomponents/MyTextInput1';
class AddBook extends Component {
  state = {
   bookId: ",
   bookName:",
   author: ",
   price: ",
   pub: ",
   myerrors:{ }
 }
 mychangeHandler = (myevent) => {
   myevent.preventDefault();
   console.log("mychangeHandler");
   this.setState({
     [myevent.target.name]: myevent.target.value,
   })
  };
  mysubmitHanlder = (myevent) => {
   myevent.preventDefault();
   console.log("mysubmitHanlder");
   //1.Do the Validations
   if(this.validateBookForm()){
   //2.Make API Calls
   console.log("Before Reset",this.state);
   //3.Reset the Form
    this.setState({
    bookId:",
    bookName: ",
    author: ",
    price: ",
```



```
pub: ",
    myerrors: {}
  });
  console.log("After Reset",this.state);
};
  validateBookForm(){
   console.log("validateBookForm");
   const {bookId,bookName,author,price,pub} = this.state;
   let isValid = true;
   let errors= { }; //Errors here temporarly
if(bookId===null || bookId.length===0){
 isValid=false;
 errors["mybookId"] = "BookId is Required";//
}else if(bookId.length<=4){</pre>
 isValid=false;
 errors["mybookId"] ="BookId minlength is 5";//
}else if(bookId.length>=8){
 isValid=false;
 errors["mybookId"] = "BookId maxlength is 7";//
}
if(bookName===null || bookName.length===0){
 isValid=false;
 errors["mybookName"] = "BookName is Required";//
}else if(bookName.length<=5){</pre>
 isValid=false;
 errors["mybookName"] = "BookName minlength is 5";//
}else if(bookName.length>=11){
 isValid=false;
 errors["mybookName"] = "BookName maxlength is 7";//
}
```



```
if(author===null || author.length===0){
 isValid=false;
 errors["myauthor"] ="Author is Required";//
}else if(author.length<=5){</pre>
 isValid=false;
 errors["myauthor"] ="Author minlength is 5";//
}else if(author.length>=11){
 isValid=false;
 errors["myauthor"] ="Author maxlength is 7";//
}
if(price===null || price.length===0){
 isValid=false;
 errors["myprice"] = "Price is Required";//
}
if(pub===null || pub.length===0){
 isValid=false;
 errors["mypub"] ="Pub is Required";//
}
this.setState({
 myerrors: errors
});
return isValid;
} //end of Function
render() {
const {bookId,bookName,author,price,pub} = this.state;
return (
 <div className="container col-md-6">
<h2 className="text-center">AddBook Form</h2>
<form onSubmit={this.mysubmitHanlder}>
```



### <MyTextInput

```
myname="bookId"
mylabel="Book Id"
myvalue={bookId}
myonChange={this.mychangeHandler}
myerror={this.state.myerrors.mybookId} />
```

#### <MyTextInput

```
mytype="password"
myname="bookName"
mylabel="Book Name"
myplacehodler="Enter Book Name"
myvalue={bookName}
myonChange={this.mychangeHandler}
myerror={this.state.myerrors.mybookName} />
```

#### <MyTextInput

```
mytype="text"
myname="author"
mylabel="Author"
myplacehodler="Enter Author"
myvalue={author}
myonChange={this.mychangeHandler}
myerror={this.state.myerrors.myauthor} />
```

#### <MyTextInput1

```
mytype="text"
myname="price"
mylabel="Price"
myplacehodler="Enter Price"
myvalue={price}
myonChange={this.mychangeHandler}
myerror={this.state.myerrors.myprice} />
```

#### <MyTextInput1

```
mytype="text"
myname="pub"
mylabel="Publications"
```



```
myplacehodler="Enter Pub"
    myvalue={pub}
    myonChange={this.mychangeHandler}
    myerror={this.state.myerrors.mypub} />
    <input type="submit" value="Add Book" className="btn btn-primary btn-lg"/>
    </form>
    </div>
 );
}
export default AddBook;
6. MyTextInput1.js
import React from 'react';
import classnames from 'classnames';
import propTypes from 'prop-types';
const MyTextInput1 = (
 {myname,mylabel,mytype,myvalue,myplaceholder,myonChange,myerror}
 ) => {
return(
 <div className="container">
   <div className="form-group">
    <label htmlFor= {myname} > {mylabel} </label>
    <input type= {mytype}</pre>
       name= {myname}
       placeholder= {myplaceholder}
       value= {myvalue}
       onChange= {myonChange}
       className={ classnames("form-control form-control-lg",
         {"is-invalid":myerror, "is-valid":!myerror}) }
         />
    <div className="text-danger"> {myerror} </div>
    </div>
 </div>
) }
```



```
MyTextInput1.propTypes = {
 mylabel: propTypes.string.isRequired,
 myname: propTypes.string.isRequired,
 myvalue: propTypes.string.isRequired,
 myonChange: propTypes.func.isRequired,
}
MyTextInput1.defaultProps = {
 mytext: 'text',
 myerror:",
export default MyTextInput1;
7. MyTextInput.js
import React from 'react';
import classnames from 'classnames';
import propTypes from 'prop-types';
const MyTextInput = (props) => {
return(
 <div className="container">
   <div className="form-group">
    <label htmlFor= {props.myname} > {props.mylabel} </label>
    <input type= {props.mytype}</pre>
       name= {props.myname}
       placeholder= {props.myplaceholder}
       value= {props.myvalue}
       onChange= {props.myonChange}
       className={ classnames("form-control form-control-lg",
         {"is-invalid":props.myerror, "is-valid":!props.myerror}) }
       />
    <div className="text-danger"> {props.myerror} </div>
    </div>
 </div>
)
}
```



```
MyTextInput.propTypes = {
    mylabel : propTypes.string.isRequired,
    myname : propTypes.string.isRequired,
    myvalue : propTypes.string.isRequired,
    myonChange : propTypes.func.isRequired,
}

MyTextInput.defaultProps = {
    mytext:'text',
    myerror:'',
}
```

export default MyTextInput;



## **Lab25: Customizing and Using Form Elements**

#### **Lab25: Files Required:**

1. index.html	2. index.js
3. index.css	4. App.js
5. MyButton.js	
6. MyTextInput.js	7. TextInputDemo.js
8. MyTextArea.js	9. TextAreaDemo.js
10. MySelectBox.js	11. SelectBoxDemo.js
12. MyRadioButton.js	13. RadioButtonDemo.js
14. MyCheckBox.js	15. CheckBoxDemo.js

- 1. index.html
- 2. index.js
- 3. index.css
- 4. App.js

```
import React, { Component } from 'react';
import 'bootstrap/dist/css/bootstrap.min.css';
import TextInputDemo from './mydemos/TextInputDemo';
import TextAreaDemo from './mydemos/TextAreaDemo';
import SelectBoxDemo from './mydemos/SelectBoxDemo';
import RadioButtonDemo from './mydemos/RadioButtonDemo';
import CheckBoxDemo from './mydemos/CheckBoxDemo';
class App extends Component {
 render() {
 return (
 <div className="card">
  <div className="card-header">
  <h2 className="text-center">Welcome to Java Learning Center</h2>
  </div>
  <div className="card-body">
   <TextInputDemo />
   <TextAreaDemo />
   <SelectBoxDemo />
   <RadioButtonDemo />
   <CheckBoxDemo/>
  </div>
 </div>
 );
}
```

export default **App**;



## 5. MyButton.js

```
import React from 'react';
import propTypes from 'prop-types';
const MyButton = (props) => {
return(
  <div className="container">
   <div className="form-group">
    <input type={props.mytype}</pre>
       value={props.myvalue}
       className="btn btn-primary btn-lg"
       />
     </div>
 </div>
)
}
MyButton.propTypes = {
 myvalue: propTypes.string.isRequired,
}
MyButton.defaultProps = {
 mytype: 'submit',
}
export default MyButton;
```

## 6. MyTextInput.js

```
import React from 'react';
import propTypes from 'prop-types';
const MyTextInput = (props) => {
return(
 <div className="container">
   <div className="form-group">
    <label htmlFor={props.myname} > {props.mylabel} </label>
    <input type={props.mytype}</pre>
       name={props.myname}
       placeholder={props.myplaceholder}
       value={props.myvalue}
       onChange={props.myOnChange}
       className="form-control form-control-lg"
       />
    </div>
 </div>
```



} MyTextInput.propTypes = { mylabel: propTypes.string.isRequired, myname: propTypes.string.isRequired, myvalue: propTypes.string.isRequired, myOnChange: propTypes.func.isRequired, } MyTextInput.defaultProps = { mytype: 'text', } export default MyTextInput; 7. TextInputDemo.js import React, { Component } from "react"; import MyButton from "../mycomponents/MyButton"; import MyTextInput from "../mycomponents/MyTextInput"; class TextInputDemo extends Component { state = { username: "sd", password: "sd" **}**; onChangeHandler = (event) => { console.log("onChangeHandler"); this.setState({ [event.target.name]: event.target.value, }); **}**; onSubmitHandler = (event) => { event.preventDefault(); console.log("onSubmitHandler"); const { username,password } = this.state;

console.log(username);
console.log(password);
//Do the Validations



```
//Make Call to Server
 //Form Reset
 this.setState({
   username: "",
   password: ""
 });
};
render() {
 const { username,password } = this.state;
 return (
  <div className="card-body container col-md-6">
   <h3 className="text-center"> InputTextDemo </h3>
   <form onSubmit={this.onSubmitHandler}>
    <MyTextInput
     myname="username"
     mylabel="Username"
     myvalue={username}
     myOnChange={this.onChangeHandler}/>
    <MyTextInput
     mytype="password"
     myname="password"
     mylabel="Password"
     myvalue={password}
     myOnChange={this.onChangeHandler}/>
   <MyButton myvalue="Submit Now"/>
    </form>
  </div>
 );
}
export default TextInputDemo;
```



## 8. MyTextArea.js

```
import React from "react";
import propTypes from "prop-types";
const MyTextArea = (props) => {
return (
 <div className="form-group">
  <h3>
         <label> {props.mylabel} </label> </h3>
  <textarea
   value={props.myvalue}
   onChange={props.myOnChange}
   placeholder={props.myplaceholder}
   rows={props.myrows}
   cols={props.mycols}
   className="form-control form-control-lg"
  />
 </div>
);
};
MyTextArea.propTypes = {
mylabel: propTypes.string.isRequired,
myvalue: propTypes.string.isRequired,
myOnChange: propTypes.func.isRequired,
};
MyTextArea.defaultProps = {
myplaceholder: "",
myrows: 5,
mycols:25
};
export default MyTextArea;
```

### 9. <u>TextAreaDemo.js</u>

```
import React, { Component } from "react";
import MyButton from "../mycomponents/MyButton";
import MyTextArea from "../mycomponents/MyTextArea";

class TextAreaDemo extends Component {
  constructor(props) {
    super(props);
    this.state = {
        remarks: "",
    }
}
```



```
this.onChangeHandler = this.onChangeHandler.bind(this);
 this.onSubmitHandler = this.onSubmitHandler.bind(this);
}
onChangeHandler = (event) => {
 console.log("onChangeHandler");
 this.setState({
 remarks: event.target.value,
});
};
onSubmitHandler = (event) => {
 event.preventDefault();
 console.log("onSubmitHandler");
 console.info(this.state.remarks);
 //Do the Validations
 //Make Call to Server
 //Form Reset
 this.setState({
  remarks: "",
});
};
render() {
 const { remarks } = this.state;
 return (
  <div className="card-body container col-md-6">
   <h3 className="text-center"> TextAreaDemo </h3>
   <form onSubmit={this.onSubmitHandler}>
    <MyTextArea
     mylabel="Remarks"
    myvalue={remarks}
     myOnChange={this.onChangeHandler}/>
   <MyButton myvalue="Submit Now"/>
   </form>
  </div>
 );
} }
```

export default TextAreaDemo;



### 10. MySelectBox.js

```
import React from "react";
import propTypes from "prop-types";
const MySelectBox = (props) => {
return (
  <div className="form-group">
  <h3> <label> {props.mylabel} </label>
    <select className="form-control form-control-lg"</pre>
          name={props.myname}
          onChange={props.myOnChange} >
    {props.myoptions.map((myoption, myindex) => {
     return (
      <option key={myindex} value={myoption}>
       {myoption}
      </option>
     );
    })}
   </select>
  </h3>
  </div>
);
};
MySelectBox.propTypes = {
mylabel: propTypes.string.isRequired,
myname: propTypes.string.isRequired,
myoptions: propTypes.array.isRequired,
myOnChange: propTypes.func.isRequired,
};
export default MySelectBox;
SelectBoxDemo.js
import React from "react";
import MyButton from "../mycomponents/MyButton";
import MySelectBox from "../mycomponents/MySelectBox";
class SelectBoxDemo extends React.Component {
 constructor() {
  super();
```

11.



```
this.state = {
  timings: null,
 };
 this.onChangeHandler = this.onChangeHandler.bind(this);
 this.onSubmitHandler = this.onSubmitHandler.bind(this);
}
onChangeHandler(event) {
 console.log("onChangeHandler");
 this.setState({
  timings: event.target.value,
});
}
onSubmitHandler = (event) => {
 event.preventDefault();
 console.log("onSubmitHandler");
 console.info(this.state.timings);
 //Do the Validations
 //Make Call to Server
 //Form Reset
 this.setState({
 timings: null,
});
};
render() {
 const tmingsOptions = ["Select Timings", "WeekDays", "WeekEnds"];
 return (
  <div className="card-body container col-md-6">
   <h3 className="text-center"> SelectBoxDemo </h3>
   <form onSubmit={this.onSubmitHandler}>
    <MySelectBox
     mylabel="Tmings"
     myname="timings"
     myOnChange={this.onChangeHandler}
     myoptions={tmingsOptions}/>
     <MyButton myvalue="Submit Now"/>
```



```
</form>
  </div>
 );
}
}
export default SelectBoxDemo;
MyRadioButton.js
import React from "react";
import propTypes from "prop-types";
const MyRadioButton = (props) => {
return (
 <span>
  <h3>
   <input
    type={props.mytype}
    name={props.myname}
    checked={props.mychecked}
    value={props.myvalue}
    onChange={props.myOnChange}
   />
      
   <label> {props.mylabel} </label>
  </h3>
 </span>
);
};
MyRadioButton.propTypes = {
mylabel: propTypes.string.isRequired,
myname: propTypes.string.isRequired,
myvalue: propTypes.string.isRequired,
mychecked: propTypes.bool.isRequired,
myOnChange: propTypes.func.isRequired,
};
MyRadioButton.defaultProps = {
mytype: "radio",
```

**12.** 

export default MyRadioButton;



## 13. RadioButtonDemo.js

```
import React, { Component } from "react";
import MyButton from "../mycomponents/MyButton";
import MyRadioButton from "../mycomponents/MyRadioButton";
class RadioButtonDemo extends Component {
 state = {
  gender: "",
 };
 onChangeHandler = (event) => {
 console.log("onChangeHandler");
 this.setState({
  gender: event.target.value,
 });
};
onSubmitHandler = (event) => {
 event.preventDefault();
 console.log("onSubmitHandler");
 console.log(this.state.gender);
};
render() {
 return (
  <div className="card-body container col-md-6">
    <h3 className="text-center"> RadioButton Demo </h3>
    <form onSubmit={this.onSubmitHandler}>
    <div className="radio">
      <MyRadioButton
      mylabel="Male"
      myvalue="Male"
      myname="gender"
      mychecked={this.state.gender === "Male"}
      myOnChange={this.onChangeHandler}
     />
```



```
<\!MyRadioButton
```

```
mylabel="Female"
myvalue="Female"
myname="gender"
mychecked={this.state.gender === "Female"}
myOnChange={this.onChangeHandler} />
</div>
</myButton myvalue="Submit Now"/>
</form>
</div>
);
}
export default RadioButtonDemo;
```

## 14. MyCheckBox.js

```
import React from "react";
import propTypes from "prop-types";
```

## const MyCheckBox = (props) => {

#### MyCheckBox.propTypes = {

mylabel: propTypes.string.isRequired, myvalue: propTypes.string.isRequired, mychecked: propTypes.bool.isRequired, myOnChange: propTypes.func.isRequired,



```
MyCheckBox.defaultProps = {
        mytype: "checkbox",
       export default MyCheckBox;
15.
       CheckBoxDemo.js
       import React from "react";
       import MyButton from "../mycomponents/MyButton";
       import MyCheckBox from "../mycomponents/MyCheckBox";
       class CheckBoxDemo extends React.Component {
          state = {
          mycourses: [
           { id: 1, value: "React JS", isChecked: true },
           { id: 2, value: "Angular ", isChecked: false },
           { id: 3, value: "Spring Boot", isChecked: true },
           { id: 4, value: "MicroServices", isChecked: false },
           { id: 5, value: "DevOps", isChecked: false },
          ],
        };
        onChangeHandler = (event) => {
         console.log("onChangeHandler");
         let mycourses = this.state.mycourses;
         mycourses.forEach((mycourse) => {
          if (mycourse.value === event.target.value)
           mycourse.isChecked = event.target.checked;
         });
         this.setState({ mycourses: mycourses });
        };
        onSubmitHandler = (event) => {
         event.preventDefault();
         console.log("onSubmitHandler");
         console.log(this.state.mycourses);
         let courseList = [];
         this.state.mycourses.forEach((mycourse) => {
          if (mycourse.isChecked === true) {
           courseList.push(mycourse.value);
```



```
}
  });
  console.log("Selected Courses : ", courseList);
  //reset
  this.setState({
  mycourses: [
   { id: 1, value: "React JS", isChecked: false },
   { id: 2, value: "Angular ", isChecked: false },
    { id: 3, value: "Spring Boot", isChecked: false },
   { id: 4, value: "MicroServices", isChecked: false },
   { id: 5, value: "Java FSD", isChecked: false },
  ],
 });
};
render() {
  return (
  <div className="card-body container col-md-6">
    <h3 className="text-center"> CheckBoxDemo </h3>
    <form onSubmit={this.onSubmitHandler}>
     <div className="checkbox">
      {this.state.mycourses.map((mycourse) => {
       return (
        <MyCheckBox
         key={mycourse.id}
         mylabel={mycourse.value}
         myvalue={mycourse.value}
         mychecked={mycourse.isChecked}
         myOnChange={this.onChangeHandler}/>
       );
     })}
     </div>
      <MyButton myvalue="Submit Now"/>
    </form>
  </div>
 );
}
}
```

export default CheckBoxDemo;