

Lab27 : Example using Routers

Lab27: Files Required:

1. index.html	2. index.js
3. index.css	4. App.js
5. JLCHeader.js	6. JLCFooter.js
7. JLCBody.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 { BrowserRouter } from 'react-router-dom';
import JLCHeader from './JLCHeader';
import JLCFooter from './JLCFooter';
import JLCBody from './JLCBody';

class App extends Component {

  render() {
    return (
      <BrowserRouter>
        <div className="card">
          <JLCHeader />
          <br/>
          <JLCBody/>
          <br/><br/><br/>
          <JLCFooter/>
        </div>
      </BrowserRouter>
    );
  }
}

export default App;
```

5. JLCHeader.js

```
import React from 'react';

const JLCHeader = (props) => {

  return (
    <div>
      <h3> Welcome to CourseCube!!! </h3>
      <ul className="nav justify-content-end">

        <li className="nav-item">
          <h4> <a className="nav-link" href="/">Home</a> </h4>
        </li>

        <li className="nav-item">
          <h4> <a className="nav-link" href="/courses">Courses</a></h4>
        </li>

        <li className="nav-item">
          <h4> <a className="nav-link" href="/about">About US</a></h4>
        </li>

        <li className="nav-item">
          <h4> <a className="nav-link" href="/contact">Contact US</a></h4>
        </li>

      </ul>
    </div>
  );
}

export default JLCHeader;
```

6. JLCFooter.js

```
import React from 'react';

const JLCFooter = (props) => {
  return (
    <div>
      <h3> CourseCube-All Rights Reserved-2021 </h3>
    </div>
  );
}

export default JLCFooter;
```



7. JLCBody.js

```
import React,{ Component}from 'react';
import { Route } from "react-router-dom";

class JLCBody extends Component {
  render(){
    return (
      <div className="conatiner">

        <Route path="/" render={() => <h1> Home page displays -1</h1>} exact />
        <Route path="/" render={() => <h1> Home page displays -2</h1>} exact />

        <Route path="/courses" render={() => <h1> Courses page Here</h1>} />
        <Route path="/courses" render={() => <h1> Courses page Here</h1>} />

        <Route path="/about" render={() => <h1> About page Here</h1>} />
        <Route path="/about" render={() => <h1> About page Here</h1>} />

        <Route path="/contact" render={() => <h1> Contact page Here</h1>} />
        <Route path="/contact" render={() => <h1> Contact page Here</h1>} />
      </div>
    );
  }
}

export default JLCBody;
```

Lab28 : Example using Routers

Lab28: Files Required:

1. index.html	2. index.js
3. index.css	4. App.js
5. JLCHeader.js	6. JLCHeader1.js
7. JLCBody.js	8. Home.js
9. Courses.js	10. About.js
11. Contact.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 JLCHeader from './JLCHeader';
import JLCBody from './JLCBody';
import { BrowserRouter } from "react-router-dom";
```

```
class App extends Component {
  render(){
    return (
      <BrowserRouter>
        <div className="card">
          <JLCHeader />
          <JLCBody />
        </div>
      </BrowserRouter>
    );
  }
}
export default App;
```

5. JLCHeader1.js

```
import React,{ Component}from 'react';
import {Link} from 'react-router-dom';

class JLCHeader1 extends Component {
  render(){
    return (
      <div>
        <h1> Welcome to CourseCube!!!</h1>
        <ul className="nav justify-content-end">
          <li className="nav-item">
            <Link to="/" className="nav-link"> Home </Link>
          </li>
        </ul>
      </div>
    );
  }
}
```



```
<li className="nav-item">
  <Link to="/courses" className="nav-link"> Courses </Link>
</li>
<li className="nav-item">
  <Link to="/about" className="nav-link"> About US </Link>
</li>
<li className="nav-item">
  <Link to="/contact" className="nav-link"> Contact Us </Link>
</li>
</ul>
</div>
);
}
}
export default JLCHeader1;
```

6. JLCHeader.js

```
import React,{ Component}from 'react';
import {NavLink} from 'react-router-dom';

class JLCHeader extends Component {

  render(){
    return (
      <div>
        <h1> Welcome to CourseCube!!!</h1>
        <ul className="nav justify-content-end">
          <li className="nav-item">

            <NavLink to="/"  className="nav-link"  exact
              activeClassName="myactive"
              activeStyle={{
                textDecoration: "underline",
                fontSize:"1.2em"
              }} > Home </NavLink>

          </li>

          <li className="nav-item">
            <NavLink to="/courses"  className="nav-link"
              activeClassName="myactive"
```

```

    activeStyle={{ textDecoration: "underline",  fontSize:"1.2em" }}> Courses </NavLink>
  </li>
  <li className="nav-item">
    <NavLink to="/about"  className="nav-link"
    activeClassName="myactive"> About US </NavLink>
  </li>
  <li className="nav-item">
    <NavLink to="/contact"  className="nav-link"
    activeClassName="myactive"> Contact Us </NavLink>
  </li>
</ul>
</div>
);
} }
export default JLCHeader;

```

7. JLCBody.js

```

import React,{ Component}from 'react';
import { Route } from "react-router-dom";
import Home from "./Home";
import Courses from "./Courses";
import About from "./About";
import Contact from "./Contact";

class JLCBody extends Component {
  render(){
    return (
      <div className="card">
        <Route path="/"  component={Home}  exact  />
        <Route path="/courses"  component={Courses}  />
        <Route path="/about"  component={About}  />
        <Route path="/contact"  component={Contact}  />
      </div>
    );
  } }
export default JLCBody;

```



8. Home.js

```
import React,{ Component}from 'react';

class Home extends Component {
  componentDidMount(){
    console.log("Home - ",this.props);
  }
  render(){
    return (
      <div>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
      </div>
    );
  }
}

export default Home;
```

9. Courses.js

```
import React,{ Component}from 'react';

class Courses extends Component {
  componentDidMount(){
    console.log("Courses - ",this.props);
  }
  render(){
    return (
      <div>
        <h2> This is Courses page </h2>
        <h2> This is Courses page </h2>
        <h2> This is Courses page </h2>
        <h2> This is Courses page </h2>
      </div>
    );
  }
}

export default Courses;
```

10. About.js

```
import React,{ Component}from 'react';
```

```
class About extends Component {  
  render(){  
    return (  
      <div>  
        <h2> This is About page </h2>  
        <h2> This is About page </h2>  
        <h2> This is About page </h2>  
        <h2> This is About page </h2>  
      </div>  
    );  
  }  
}
```

```
export default About;
```

11. Contact.js

```
import React,{ Component}from 'react';
```

```
class Contact extends Component {  
  render(){  
    return (  
      <div>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
      </div>  
    );  
  }  
}
```

```
export default Contact;
```


Lab29 : Example using Routers

Lab29: Files Required:

1. index.html	2. index.js
3. index.css	4. App.js
5. JLCHeader.js	6. JLCBody.js
7. Courses.js	8. CourseList.js
9. MyCourseInfo.js	10. Home.js
11. About.js	12. Contact.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 JLCHeader from './JLCHader';
import JLCBody from './JLCBody';
import { BrowserRouter } from "react-router-dom";

class App extends Component {
  componentDidMount(){
    console.log("App - DidMount- ",this.props);
  }
  componentWillUnmount(){
    console.log("App - WillUnmount- ",this.props);
  }

  render(){
    return (
      <BrowserRouter>
      <div className="card">
      <JLCHeader />
      <JLCBody />
      </div>
      </BrowserRouter>
    );
  }
}

export default App;

```



5. JLCHheader.js

```
import React,{ Component}from 'react';
import {NavLink} from 'react-router-dom';

class JLCHheader extends Component {
  componentDidMount(){
    console.log("JLCHheader - DidMount- ",this.props);
  }
  componentWillUnmount(){
    console.log("JLCHheader - WillUnmount- ",this.props);
  }
  render(){
    return (
      <div>
        <h1> Welcome to CourseCube!!!</h1>
        <ul className="nav justify-content-end">
          <li className="nav-item">
            <NavLink to="/" className="nav-link" exact
              activeClassName="myactive"
              activeStyle={{ { textDecoration: "underline", fontSize:"1.2em" } } } > Home </NavLink>

          </li>
          <li className="nav-item">
            <NavLink to={{pathname: "/courses",hash: "#Hello",search: "?name=JLC",}}
              className="nav-link" activeClassName="myactive"
              activeStyle={{textDecoration: "underline",fontSize:"1.2em"}}> Courses </NavLink>
          </li>
          <li className="nav-item">
            <NavLink to="/about" className="nav-link"
              activeClassName="myactive"> About US </NavLink>
          </li>
          <li className="nav-item">
            <NavLink to="/contact " className="nav-link"
              activeClassName="myactive"> Contact Us </NavLink>
          </li>
        </ul>
      </div>
    );
  }
}
export default JLCHheader;
```



6. JLCBody.js

```
import React,{ Component}from 'react';
import { Route } from "react-router-dom";
import Home from "./Home";
import Courses from "./Courses";
import About from "./About";
import Contact from "./Contact";
import MyCourseInfo from './MyCourseInfo';

class JLCBody extends Component {
  componentDidMount(){
    console.log("JLCBody - DidMount- ",this.props);
  }
  componentWillUnmount(){
    console.log("JLCBody - WillUnmount- ",this.props);
  }
  render(){
    return (
      <div className="card">
        <Route path="/" component={Home} exact />
        <Route path="/courses" exact component={Courses} />
        <Route path="/mycourses/:could/:couName" exact component={MyCourseInfo} />
        <Route path="/about" component={About} />
        <Route path="/contact" component={Contact} />
      </div>
    );
  }
}
export default JLCBody;
```

7. Courses.js

```
import React,{ Component}from 'react';
import CourseList from './CourseList';

class Courses extends Component {
  componentDidMount(){
    console.log("Courses - DidMount- ",this.props);
    console.log("1. ",this.props.location.hash);
    console.log("2. ",this.props.location.pathname);
    console.log("3. ",this.props.location.search);
    console.log("4. ",this.props.match.path);
    console.log("5. ",this.props.match.params);
```



```
}  
componentWillUnmount(){  
  console.log("Courses - WillUnmount- ",this.props);  
}  
render() {  
  return <CourseList />;  
} }  
export default Courses;
```

8. CourseList.js

```
import React, { Component } from "react";  
import { withRouter, Link } from "react-router-dom";  
  
class CourseList extends Component {  
  state = {  
    courseInfo: [  
      { courseId: 101, courseName: "React Course" },  
      { courseId: 102, courseName: "Angular Course" },  
      { courseId: 103, courseName: "Spring Boot Course" },  
      { courseId: 104, courseName: "MicroServices Course" },  
      { courseId: 105, courseName: "Java Full Stack Course" },  
    ],  
  };  
  componentDidMount() {  
    console.log("CourseList - DidMount- Props", this.props);  
  }  
  componentWillUnmount() {  
    console.log("CourseList - WillUnmount- Props", this.props);  
  }  
  render() {  
    const mycourses = this.state.courseInfo.map(  
      (mycourse) => {  
        return (  
          <Link  
            to={"/mycourses/" + mycourse.courseId + "/" + mycourse.courseName}  
            key={mycourse.courseId} >  
            {mycourse.courseName} <br />  
          </Link>  
        );  
      });  
  }
```

```

return (
  <div className="jumbotron jumbotron-fluid">
    <div className="container">
      <h1 className="display-4">Courses List</h1>
      <p className="lead">{mycourses}</p>
    </div>
  </div>
);
}
}
export default withRouter(CourseList);

```

9. MyCourseInfo.js

```

import React, { Component } from "react";
import { NavLink } from "react-router-dom";

class MyCourseInfo extends Component {
  componentDidMount() {
    console.log("MyCourseInfo -DidMount- Props", this.props);
  }
  componentWillUnmount() {
    console.log("MyCourseInfo - WillUnmount- Props", this.props);
  }
  render() {
    return (
      <div className="jumbotron jumbotron-fluid">
        <div className="container">
          <h1 className="display-4">
            Info about {this.props.match.params.couName}
          </h1>
          <p className="lead">
            Course Id : {this.props.match.params.couId} <br />
            MyCourse Info Here MyCourse Info Here <br />
            MyCourse Info Here MyCourse Info Here <br />
            MyCourse Info Here MyCourse Info Here <br />
            MyCourse Info Here MyCourse Info Here <br />
          </p>
          <br />
          <NavLink className="nav-link" to="/courses">
            Courses
          </NavLink>

```



```
</div>
</div>
);
}
}
export default MyCourseInfo;
```

10. Home.js

```
import React,{ Component}from 'react';

class Home extends Component {
  componentDidMount(){
    console.log("Home - DidMount- ",this.props);
  }
  componentWillUnmount(){
    console.log("Home - WillUnmount- ",this.props);
  }
  render(){
    return (
      <div>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
        <h2> This is Home page </h2>
      </div>
    );
  }
}

export default Home;
```

11. About.js

```
import React,{ Component}from 'react';

class About extends Component {
  componentDidMount(){
    console.log("About - DidMount- ",this.props);
  }
  componentWillUnmount(){
    console.log("About - WillUnmount- ",this.props);
  }
}
```



```
render(){  
  return (  
    <div>  
      <h2> This is About page </h2>  
      <h2> This is About page </h2>  
      <h2> This is About page </h2>  
      <h2> This is About page </h2>  
    </div>  
  );  
}
```

```
export default About;
```

12. **Contact.js**

```
import React,{ Component}from 'react';
```

```
class Contact extends Component {  
  componentDidMount(){  
    console.log("Contact - DidMount- ",this.props);  
  }  
  componentWillUnmount(){  
    console.log("Contact - WillUnmount- ",this.props);  
  }  
  render(){  
    return (  
  
      <div>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
        <h2> This is Contact page </h2>  
      </div>  
    );  
  }  
}
```

```
export default Contact;
```

Lab30 : Example using Routers

Lab30: Files Required:

1. index.html	2. index.js
3. index.css	4. App.js
5. JLCHeader.js	6. JLCBody.js
7. Courses.js	8. Login.js
9. MyInputText.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 JLCHeader from "./JLCHeader";
import JLCBody from "./JLCBody";

import { BrowserRouter } from "react-router-dom";

class App extends Component {
  render() {
    return (
      <BrowserRouter>
        <div className="card">
          <JLCHeader />
          <JLCBody />
        </div>
      </BrowserRouter>
    );
  }
}
export default App;
```

5. JLCHeader.js

```
import React from "react";

const JLCHeader = () => {
  return (
    <div className="card-header">
      <h1 className="text-center"> Welcome to CourseCube!!!</h1>
    </div>
  );
};
export default JLCHeader;
```


6. JLCBody.js

```
import React, { Component, Suspense } from "react";

import { Route, Switch, Redirect } from "react-router-dom";
import Login from "./Login";

const Courses = React.lazy(() => import("./Courses"));
//import Courses from "./Courses";

class JLCBody extends Component {
  render() {
    return (
      <div>
        <Switch>
          <Route path="/courses"
            render={() => (
              <Suspense fallback={<div> Loading....</div>}>
                <Courses />
              </Suspense>
            )}
          />
          <Route path="/" exact component={Login} />
          <Redirect from="/login" to="/" />
        </Switch>
        <Redirect to="/" />
      </div>
    );
  }
}

export default JLCBody;
```

7. Courses.js

```
import React, { Component } from "react";

class Courses extends Component {
  render() {
    return (
      <div className="container">
        <br /> <br /> <br />
        <h3> React Course </h3>
        <h3> Angular Course </h3>
      </div>
    );
  }
}
```

```
<h3> Spring Boot Course </h3>
<h3> Spring MicroServices Course </h3>
<h3> Java Full Stack Course </h3>
</div>
);
}
}
export default Courses;
```

8. Login.js

```
import React, { Component } from "react";

import "bootstrap/dist/css/bootstrap.min.css";
import MyInputText from "./MyInputText";

class Login extends Component {
  state = {
    username: "",
    password: "",
  };

  onChangeHandler = (event) => {
    console.log("onChangeHandler");
    this.setState({
      [event.target.name]: event.target.value,
    });
  };

  onSubmitHandler = (event) => {
    event.preventDefault();
    const { username, password } = this.state;
    console.log("onSubmitHandler");

    console.log(username);
    console.log(password);

    //Do the Validations
    //Make Call to Server
```

```
if (username === password) {  
  //this.props.history.push("/courses");  
  this.props.history.replace("/courses");  
} else {  
  this.props.history.replace("/login");  
}  
};  
  
render() {  
  const { username, password } = this.state;  
  
  return (  
    <div className="card-body container col-md-6">  
      <h3 className="text-center"> Login Form </h3>  
      <form onSubmit={this.onSubmitHandler}>  
        <MyInputText  
          myname="username"  
          mylabel="Username"  
          myvalue={username}  
          myOnChange={this.onChangeHandler} />  
  
        <MyInputText  
          mytype="password"  
          myname="password"  
          mylabel="Password"  
          myvalue={password}  
          myOnChange={this.onChangeHandler} />  
  
        <input type="submit" value="Login Now"  
          className="btn btn-primary btn-lg" />  
      </form>  
    </div>  
  );  
}  
}  
  
export default Login;
```



9. MyInputText.js

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

const MyInputText = ({
  mylabel,
  mytype,
  myname,
  myvalue,
  myplaceholder,
  myOnChange,
}) => {
  return (
    <div className="form-group">
      <h3>
        <label> {mylabel} </label>
      </h3>
      <input
        type={mytype}
        name={myname}
        className="form-control form-control-lg"
        placeholder={myplaceholder}
        value={myvalue}
        onChange={myOnChange}
      />
    </div>
  );
};

MyInputText.propTypes = {
  mylabel: propTypes.string.isRequired,
  myname: propTypes.string.isRequired,
  myvalue: propTypes.string.isRequired,
  myOnChange: propTypes.func.isRequired,
};

MyInputText.defaultProps = {
  mytype: "text",
  myplaceholder: "",
};

export default MyInputText;
```