Lab31 : Making Async Calls to Access REST API

Lab31: Files Required:

1. index.html	2. index.js
3. index.css	4. App.js
5. CourseList.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 CourseList from "./CourseList";

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

        <CourseList />
       </div>
     );
    }
   }

   export default App;
   ```

5. **CourseList.js**

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

   import axios from 'axios';

   class CourseList extends Component {
    state={
     mycourses:[ ]
    }

    componentDidMount(){
     console.log("CourseList - componentDidMount");
     const URL="https://www.coursecube.com/jlc-rest-api/mini-courses";
   ```

```
 axios.get(URL)
 .then(myresponse => {
 console.log("1",myresponse.data);
 console.log("2",myresponse.headers);
 console.log("3"," - inside then()");
 this.setState({
  mycourses:myresponse.data
 });
 console.log("4"," - inside then()");
 });
 console.log("5"," - continue work");
 console.log("6"," - continue work");
 console.log("7"," - continue work");
 }
render() {
 const mycourseList= this.state.mycourses.map(
  mycourse => {
   return (
    <tr key={mycourse.courseId}>
     <td> {mycourse.courseId} </td>
     <td> {mycourse.courseName} </td>
     <td> {mycourse.duration} </td>
     <td> {mycourse.trainer} </td>
     <td> {mycourse.enrollments} </td>
     <td>
     <button className="btn btn-success"> View Details </button>
     </td>
    </tr>
   );
  }
 );
 return (
  <div className="container">
   <br />
   <table className="table">
    <thead>
     <tr>
      <th> Course ID</th>
      <th> Course Name</th>
      <th> Duration</th>
      <th> Trainer</th>
```

```
        <th> Enrollments</th>
        <th> </th>
      </tr>
      </thead>
      <tbody>
        {mycourseList}
      </tbody>
    </table>
  </div>
 );
}
}
export default CourseList;
```

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1. index.html	2. index.js
3. index.css	4. App.js
5. JLCHeader.js	6. JLCBody.js
7. CourseList.js	8. MyCourseDetails.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, { 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-center">
     <li className="nav-item">
      <NavLink to="/" className="nav-link" exact>    Home    </NavLink>
     </li>
    </ul>
   </div>
  );
 }
}
export default JLCHeader;
```

6. JLCBody.js

```
import React, { Component } from "react";
import { Route } from "react-router-dom";
import CourseList from "./CourseList";
import MyCourseDetails from "./MyCourseDetails";

class JLCBody extends Component {
 render() {
  return (
   <div className="card">
    <Route path="/" component={CourseList} exact />
    <Route path="/mycourse-info/:couId" exact component={MyCourseDetails} />
   </div>
  );
 }
}
export default JLCBody;
```

7. CourseList.js

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

class CourseList extends Component {
 state = {
  mycourses: [],
 };
 componentDidMount() {
  console.log("Ok");
  axios .get("https://coursecube.com/jlc-rest-api/mini-courses")
   .then((response) => {
    this.setState({ mycourses: response.data });
    console.log(response);
   });
 }
 render() {
  const courseList = this.state.mycourses.map((mycourse) => {
   return (
    <tr key={mycourse.courseId}>
     <td> {mycourse.courseId} </td>
     <td> {mycourse.courseName} </td>
     <td> {mycourse.trainer} </td>
     <td> {mycourse.duration} </td>
     <td> {mycourse.enrollments} </td>
     <td>
      <Link to={"/mycourse-info/" + mycourse.courseId}>View Details</Link>
     </td>
    </tr>
   );
  });
  return (
   <div className="container">
    <br />
    <table className="table">
     <thead>
      <tr>
       <th> Course Id</th>
       <th> Course Name</th>
       <th> Trainer</th>
```

```
        <th> Duration</th>
        <th> Enrollments </th>
        <th> </th>
      </tr>
    </thead>
    <tbody>{courseList}</tbody>
  </table>
 </div>
);
 }
}
export default CourseList;
```

8. MyCourseDetails.js

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

class MyCourseDetails extends Component {
state = {
coursesDetails: [],
};
componentDidMount() {
const URL = `https://coursecube.com/jlc-rest-
api/mycourse/${this.props.match.params.couId}`;
console.log(URL);
axios.get(URL).then((response) => {
this.setState({ coursesDetails: response.data });
console.log(response);
});
}
render() {
return (
<div className="container">
<table className="table">
<tbody>
<tr>
<td> Course Id </td>
<td> {this.state.coursesDetails.courseId} </td>
<td> CourseName </td>
<td> {this.state.coursesDetails.courseName} </td>
</tr>
```

```
<tr>
<td> Trainer </td>
<td> {this.state.coursesDetails.trainer} </td>
<td> Duration </td>
<td> {this.state.coursesDetails.duration} </td>
</tr>
<tr>
<td> Enrollments </td>
<td> {this.state.coursesDetails.enrollments} </td>
<td> Price </td>
<td> Rs.{this.state.coursesDetails.price} </td>
</tr>
<tr>
<td> Discount </td>
<td> {this.state.coursesDetails.discount}% </td>
<td> Offer Price </td>
<td> Rs.{this.state.coursesDetails.offerPrice} </td>
</tr>
<tr>
<td>Training Model</td>
<td colspan="3" align="left">
{this.state.coursesDetails.trainingModel}
</td>
</tr>
<tr>
<td> Who can Learn this? </td>
<td colspan="3" align="left">
{this.state.coursesDetails.description1}
</td>
</tr>
<tr>
<td> Timings </td>
<td colspan="3" align="left">
{this.state.coursesDetails.description2}
</td>
</tr>
</tbody>  </table>   </div>
);
}
}
export default MyCourseDetails;
```