**4. ReactJS-HOL**

# Steps to Complete the Lab

## 1. Create React App

Open terminal and run the following command:

npx create-react-app blogapp

## 2. Open in VS Code

Open the folder 'blogapp' in Visual Studio Code.

## 3. Create Post.js

Inside src folder, create a new file named Post.js with the following content:

// src/Post.js  
import React from 'react';  
  
class Post extends React.Component {  
 render() {  
 return (  
 <div className="post">  
 <h2>{this.props.title}</h2>  
 <p>{this.props.body}</p>  
 </div>  
 );  
 }  
}  
  
export default Post;

## 4. Create Posts.js

Inside src folder, create another file named Posts.js.

Add the following class-based component with state and lifecycle methods:

// src/Posts.js  
import React from 'react';  
import Post from './Post';  
  
class Posts extends React.Component {  
 constructor(props) {  
 super(props);  
 this.state = {  
 posts: [],  
 hasError: false  
 };  
 }  
  
 loadPosts = () => {  
 fetch('https://jsonplaceholder.typicode.com/posts')  
 .then(response => response.json())  
 .then(data => this.setState({ posts: data }))  
 .catch(error => {  
 this.setState({ hasError: true });  
 console.error("Error fetching posts:", error);  
 });  
 };  
  
 componentDidMount() {  
 this.loadPosts();  
 }  
  
 componentDidCatch(error, info) {  
 alert('An error occurred: ' + error);  
 }  
  
 render() {  
 if (this.state.hasError) {  
 return <h2>Something went wrong.</h2>;  
 }  
  
 return (  
 <div>  
 <h1>Blog Posts</h1>  
 {this.state.posts.slice(0, 10).map(post => (  
 <Post key={post.id} title={post.title} body={post.body} />  
 ))}  
 </div>  
 );  
 }  
}  
  
export default Posts;

## 10. Edit App.js to Add Posts

Open App.js and modify it to include the Posts component:

// src/App.js  
import React from 'react';  
import './App.css';  
import Posts from './Posts';  
  
function App() {  
 return (  
 <div className="App">  
 <Posts />  
 </div>  
 );  
}  
  
export default App;

## 11. Run the App

In the terminal, navigate to the project folder and run:

cd blogapp

npm start

Open the browser and navigate to http://localhost:3000