ReactJS HOL4 - Solution

# 1. Create React App

Use the following command to create a new React application named blogapp:

npx create-react-app blogapp

# 2. Create Post.js

Inside the 'src' folder, create a file named Post.js and define a basic class:

class Post {  
 constructor(userId, id, title, body) {  
 this.userId = userId;  
 this.id = id;  
 this.title = title;  
 this.body = body;  
 }  
}  
  
export default Post;

# 3. Create Posts.js

In the 'src' folder, create a new file named Posts.js and add the following code:

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

# 4. Edit App.js

Update App.js to render the Posts component:

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

# 5. Run the Application

Navigate to the blogapp directory and start the server using the following command:

npm start

This will launch the app in your browser at http://localhost:3000.