**4. ReactJS-HOL**

**Posts.js**

// 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,

      errorMessage: ''

    };

  }

  loadPosts = () => {

  const samplePosts = [

    {

      id: 1,

      title: "Welcome to the Blog",

      body: "This is the first blog post of our application. Stay tuned for more updates!"

    },

    {

      id: 2,

      title: "React is Awesome",

      body: "React lets you build interactive user interfaces with ease. Learn it to build modern apps."

    },

    {

      id: 3,

      title: "Why Use Components",

      body: "Components let you split the UI into independent, reusable pieces for better code management."

    }

  ];

  this.setState({ posts: samplePosts });

};

   componentDidMount() {

    this.loadPosts();

  }

  componentDidCatch(error, info) {

    alert(`An error occurred: ${error.toString()}`);

    this.setState({ hasError: true });

  }

  render() {

    if (this.state.hasError) {

      return <h3 style={{ color: 'red' }}>Something went wrong!</h3>;

    }

    return (

      <div>

        <h1>Blog Posts</h1>

        {this.state.posts.map(post => (

          <Post key={post.id} title={post.title} body={post.body} />

        ))}

      </div>

    );

  }

}

export default Posts;

**Post.js**

// src/Post.js

import React from 'react';

class Post extends React.Component {

  render() {

    const { title, body } = this.props;

    return (

      <div style={{ border: '1px solid #ccc', margin: '1rem', padding: '1rem' }}>

        <h2>{title}</h2>

        <p>{body}</p>

      </div>

    );

  }

}

export default Post;

**App.js**

import React from 'react';

import './App.css';

import Posts from './Posts';

function App() {

  return (

    <div className="App">

      <Posts />

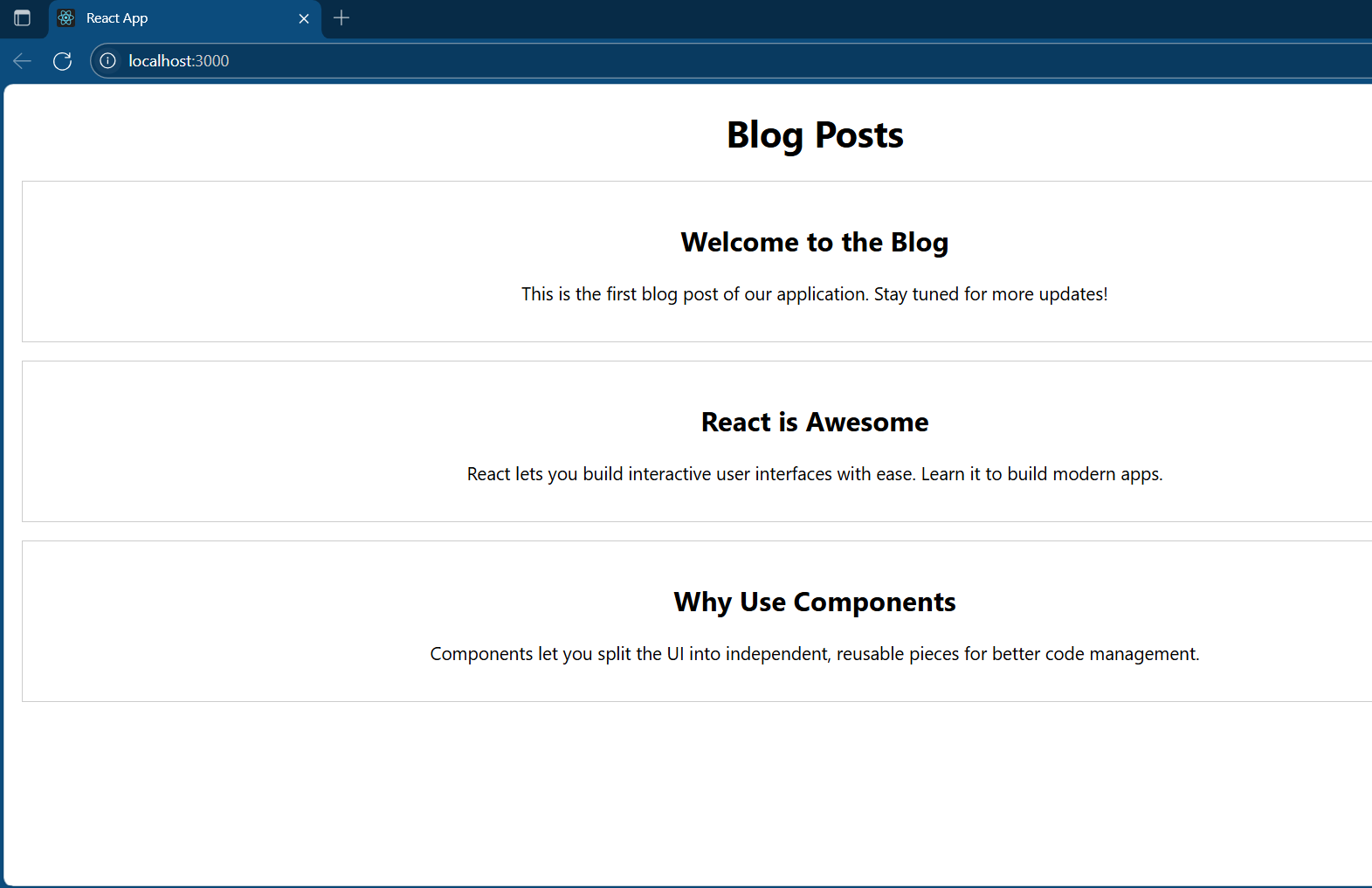
    </div>

  );

}

export default App;

**OUTPUT:**

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