

## 4.ReactJS-Handson

Install create-react-app and creating the React app and navigating into the app folder:

```
PS C:\Users\KIIT> npx create-react-app blogapp

Creating a new React app in C:\Users\KIIT\blogapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1324 packages in 50s

269 packages are looking for funding
  run 'npm fund' for details

Initialized a git repository.

Installing template dependencies using npm...

added 18 packages, and changed 1 package in 7s

269 packages are looking for funding
  run 'npm fund' for details
Removing template package using npm...

removed 1 package, and audited 1342 packages in 8s

269 packages are looking for funding
  run 'npm fund' for details

9 vulnerabilities (3 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.

Created git commit.

Success! Created blogapp at C:\Users\KIIT\blogapp
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd blogapp
  npm start

Happy hacking!
PS C:\Users\KIIT> cd blogapp
PS C:\Users\KIIT\blogapp> code .
```

## Code in src/Post.js

```
src > JS Post.js > ...
1  import React from 'react';
2
3  class Post extends React.Component {
4    render() {
5      return (
6        <div style={{ border: "1px solid #ccc", padding: "15px", marginBottom: "10px" }}>
7          <h3>{this.props.title}</h3>
8          <p>{this.props.body}</p>
9        </div>
10     );
11   }
12 }
13
14 export default Post;
```

## Code in src/Posts.js

```
src > JS Posts.js > Posts > loadPosts > then() callback
1  import React from 'react';
2  import Post from './Post';
3
4  class Posts extends React.Component {
5    constructor(props) {
6      super(props);
7      this.state = {
8        posts: [],
9        hasError: false
10     };
11   }
12
13   componentDidMount() {
14     this.loadPosts();
15   }
16
17   loadPosts() {
18     fetch('https://jsonplaceholder.typicode.com/posts')
19       .then(response => response.json())
20       .then(data => {
21         this.setState({ posts: data.slice(0, 10) }); // only show first 10 posts
22       })
23       .catch(error => {
24         this.setState({ hasError: true });
25         console.error('Fetch error:', error);
26       });
27   }
28
29   componentDidCatch(error, info) {
30     this.setState({ hasError: true });
31     alert("An error occurred while rendering posts.");
32     console.error("Error caught in componentDidCatch:", error, info);
33   }
34
35   render() {
36     if (this.state.hasError) {
37       return <h2 style={{ color: 'red' }}>Something went wrong while displaying the posts.</h2>;
38     }
39
40     return (
41       <div style={{ padding: "20px" }}>
42         <h2>Blog Posts</h2>
43         {this.state.posts.map(post => (
44           <Post key={post.id} title={post.title} body={post.body} />
45         ))}
46       </div>
47     );
48   }
49 }
50
51 export default Posts;
```

## Code in App.js

```
src / JS App.js / ...
1  import React from 'react';
2  import './App.css';
3  import Posts from './Posts';
4
5  function App() {
6    return (
7      <div className="App">
8        <h1>Welcome to Blog App</h1>
9        <Posts />
10     </div>
11   );
12 }
13
14 export default App;
15
```

## Output

Welcome to Blog App

Blog Posts

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