

13.ReactJS-Handson

Initializing and creating npm-app

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

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

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

added 1324 packages in 1m

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

Initialized a git repository.

Installing template dependencies using npm...

added 17 packages, and changed 1 package in 9s

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

removed 1 package, and audited 1341 packages in 6s

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 bloggerapp at C:\Users\KIIT\bloggerapp
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 bloggerapp
  npm start

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

Code in src/Components/BookDetails.js

```
src > components > JS BookDetails.js > ...
1  import React from "react";
2
3  function BookDetails({ books }) {
4    return (
5      <div>
6        <h2>📖 Book List</h2>
7        <ul>
8          {books.map((book, index) => (
9            <li key={index}>
10              <strong>{book.title}</strong> by {book.author}
11            </li>
12          ))}
13        </ul>
14      </div>
15    );
16  }
17
18  export default BookDetails;
```

Code in src/Components/BlogDetails.js

```
src > components > JS BlogDetails.js > ...
1  import React from "react";
2
3  function BlogDetails({ blogs }) {
4    return (
5      <div>
6        <h2>📝 Blog Posts</h2>
7        <ul>
8          {blogs.map((blog, index) => (
9            <li key={index}>
10              <strong>{blog.title}</strong> 🏷️ {blog.category}
11            </li>
12          ))}
13        </ul>
14      </div>
15    );
16  }
17
18  export default BlogDetails;
```


Code in src/Components/CourseDetails.js

```
src > components > JS CourseDetails.js > ...
1  import React from "react";
2
3  function CourseDetails({ courses }) {
4    return (
5      <div>
6        <h2>📚 Courses</h2>
7        <ul>
8          {courses.map((course, index) => (
9            <li key={index}>
10              {course.name} 💰 ₹{course.price}
11            </li>
12          ))}
13        </ul>
14      </div>
15    );
16  }
17
18  export default CourseDetails;
```

Code in App.js

```
src > JS App.js > ...
1  import React, { useState } from "react";
2  import BookDetails from "../components/BookDetails";
3  import BlogDetails from "../components/BlogDetails";
4  import CourseDetails from "../components/CourseDetails";
5
6  function App() {
7    const [view, setView] = useState("book"); // can be: book, blog, course
8    const [showCourses, setShowCourses] = useState(true); // for && rendering
9    const books = [
10     { title: "Clean Code", author: "Robert C. Martin" },
11     { title: "You Don't Know JS", author: "Kyle Simpson" },
12   ];
13   const blogs = [
14     { title: "React Basics", category: "React" },
15     { title: "Understanding State", category: "React" },
16   ];
17   const courses = [
18     { name: "React Mastery", price: 5999 },
19     { name: "JS Fundamentals", price: 3999 },
20   ];
21   // Element variable approach
22   let content;
23   if (view === "book") {
24     content = <BookDetails books={books} />;
25   } else if (view === "blog") {
26     content = <BlogDetails blogs={blogs} />;
27   } else {
28     content = <CourseDetails courses={courses} />;
29   }
30   return (
31     <div style={{ padding: "20px", fontFamily: "Arial" }}>
32       <h1>👤 Blogger App</h1>
33       </* Conditional Rendering with Ternary */>
34       <div>
35         <button onClick={() => setView("book")}>Show Books</button>
36         <button onClick={() => setView("blog")}>Show Blogs</button>
37         <button onClick={() => setView("course")}>Show Courses</button>
38       </div>
39       <hr />
40       </* Element Variable Rendering */>
41       {content}
42       </* && Rendering */>
43       <hr />
44       <button onClick={() => setShowCourses(!showCourses)}>
45         Toggle Courses Section (&& example)
46       </button>
47       {showCourses && <CourseDetails courses={courses} />}
48       </* Prevent Component Rendering using conditional return */>
49       <hr />
50       {view === "none" ? null : <p>Currently viewing: {view}</p>}
51     </div>
52   );
53 }
54 export default App;
```


Output:

 **Blogger App**

Show Books


Show Blogs

Show Courses

 **Book List**


- **Clean Code** by Robert C. Martin
- **You Don't Know JS** by Kyle Simpson

Toggle Courses Section (&& example)

 **Courses**

- React Mastery – ₹5999
- JS Fundamentals – ₹3999

Currently viewing: book

 **Blogger App**

Show Books


Show Blogs

Show Courses

 **Blog Posts**


- **React Basics** – React
- **Understanding State** – React

Toggle Courses Section (&& example)

 **Courses**

- React Mastery – ₹5999
- JS Fundamentals – ₹3999

Currently viewing: blog

 **Blogger App**

Show Books


Show Blogs

Show Courses

 **Courses**

- React Mastery – ₹5999
- JS Fundamentals – ₹3999

Toggle Courses Section (&& example)

 **Courses**

- React Mastery – ₹5999
- JS Fundamentals – ₹3999


Currently viewing: course

 **Blogger App**

Show Books

Show Blogs

Show Courses

 **Courses**

- React Mastery – ₹5999
- JS Fundamentals – ₹3999

Toggle Courses Section (&& example)

Currently viewing: course