

Hands-on 13

Objectives

- Explain various ways of conditional rendering
- Explain how to render multiple components
- Define list component
- Explain about keys in React applications
- Explain how to extract components with keys
- Explain React Map, map() function

In this hands-on lab, you will learn how to:

- Implement conditional rendering in React applications

Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

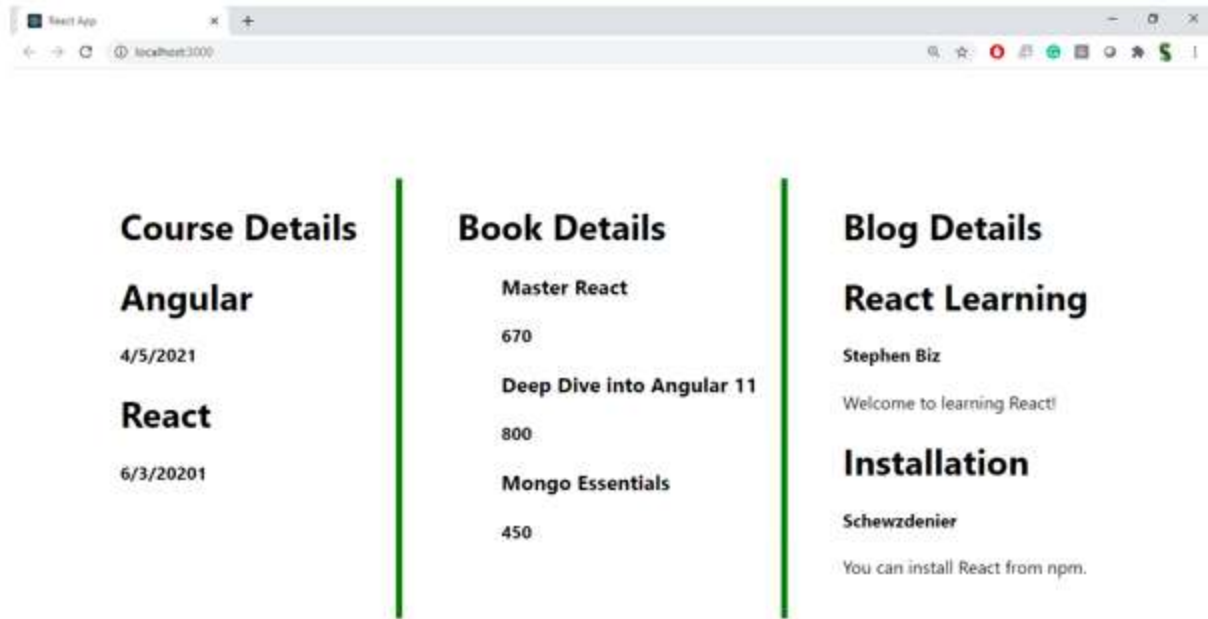
Notes

Estimated time to complete this lab: **60 minutes.**

Create a React App named “bloggerapp” in with 3 components.

1. Book Details
2. Blog Details
3. Course Details

Implement this with as many ways possible of Conditional Rendering.



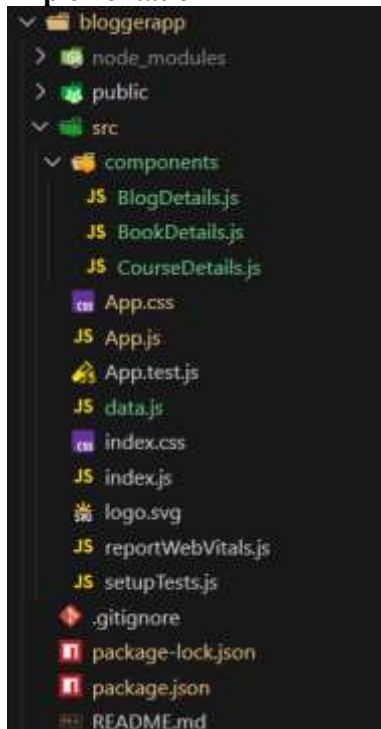
Hint:

```
const bookdet = (  
  <ul>  
    {props.books.map((book) =>  
      <div key={book.id}>  
        <h3> {book.bname}</h3>  
        <h4>{book.price}</h4>  
      </div>  
    )}  
  </ul>  
);
```

```
return (  
  <div>  
    <div>  
      <div className="st2">  
        <h1> Book Details</h1>  
        {bookdet}  
      </div>  
      <div className="v1">  
        <h1> Blog Details</h1>  
        {content}  
      </div>  
      <div className="mystyle1">  
        <h1> Course Details</h1>  
        {coursedet}  
      </div>  
    </div>  
  );  
}
```

```
export const books=[  
  {id:101,bname:'Master React',price:670},  
  {id:102,bname:'Deep Dive into Angular 11 ',price:800},  
  {id:103,bname:'Mongo Essentials',price:450},  
];
```

Implementation



App.js

```
import React, { useState } from 'react';
import BookDetails from './components/BookDetails';
import BlogDetails from './components/BlogDetails';
import CourseDetails from './components/CourseDetails';
import { books, blogs, courses } from './data';

import './App.css';

function App() {
  const [showBooks, setShowBooks] = useState(true);
  const [showBlogs, setShowBlogs] = useState(true);
  const [showCourses, setShowCourses] = useState(true);

  return (
    <div className="container">
      <div className="buttons">
        <button onClick={() => setShowBooks(!showBooks)}>Toggle Books</button>
        <button onClick={() => setShowBlogs(!showBlogs)}>Toggle Blogs</button>
        <button onClick={() => setShowCourses(!showCourses)}>Toggle Courses</button>
      </div>

      <div className="box">
        {showBooks && (
          <div className="section">
            <BookDetails books={books} />
          </div>
        )}
      </div>
    </div>
  );
}
```

```

    })
    {showBlogs && (
      <div className="section">
        <BlogDetails blogs={blogs} />
      </div>
    })
    {showCourses && (
      <div className="section">
        <CourseDetails courses={courses} />
      </div>
    })
  </div>
</div>
);
}

```

export default App;

App.css

```

.container {
  padding: 20px;
  font-family: Arial, sans-serif;
}

```

```

.buttons {
  margin-bottom: 20px;
}

```

```

button {
  margin-right: 10px;
  padding: 8px 12px;
  cursor: pointer;
  background-color: #2d7dd2;
  color: white;
  border: none;
  border-radius: 4px;
}

```

```

.box {
  display: flex;
  justify-content: space-around;
  border: 2px solid #ccc;
  padding: 20px;
  border-radius: 10px;
  background-color: #f7f7f7;
}

```

```

.section {
  width: 30%;
}

```

BlogDetails.js

```
function BlogDetails({ blogs }) {  
  return (  
    <div>  
      <h2>Blog Details</h2>  
      {blogs.map((blog) => (  
        <div key={blog.id}>  
          <h4>{blog.title}</h4>  
          <p>{blog.content}</p>  
        </div>  
      ))}  
    </div>  
  );  
}  
  
export default BlogDetails;
```

BookDetails.js

```
import React from 'react';  
  
function BookDetails({ books }) {  
  return (  
    <div>  
      <h2>Book Details</h2>  
      {books.map((book) => (  
        <div key={book.id}>  
          <h4>{book.bname}</h4>  
          <p>Price: ₹ {book.price}</p>  
        </div>  
      ))}  
    </div>  
  );  
}  
  
export default BookDetails;
```

CourseDetails.js

```
import React from 'react';  
  
function CourseDetails({ courses }) {  
  return (  
    <div>  
      <h2>Course Details</h2>  
      {courses.map((course) => (  
        <div key={course.id}>  
          <h4>{course.name}</h4>  
          <p>Duration: {course.duration}</p>  
        </div>  
      ))}  
    </div>  
  );  
}
```

```
    </div>
  );
}

export default CourseDetails;
```

Data.js

```
// src/data.js
export const books = [
  { id: 101, bname: 'Master React', price: 670 },
  { id: 102, bname: 'Deep Dive into Angular 11', price: 800 },
  { id: 103, bname: 'Mongo Essentials', price: 450 },
];

export const blogs = [
  { id: 1, title: "React vs Angular", content: "React is more flexible..." },
  { id: 2, title: "Why MongoDB?", content: "MongoDB is schema-less..." },
];

export const courses = [
  { id: 1, cname: "React Basics", duration: "3 weeks" },
  { id: 2, cname: "Advanced Angular", duration: "4 weeks" },
];
```

Output:

