WEEK:7

* Explain various ways of conditional rendering

if (isLoggedIn) {

return <UserPage />;

} else {

return <GuestPage />;

}

* Explain how to render multiple components

<>

<Header />

<Main />

<Footer />

</>

* Define list component

const NamesList = () => {

const names = ["Alice", "Bob", "Charlie"];

return (

<ul>

{names.map((name, index) => (

<li key={index}>{name}</li>

))}

</ul>

);

};

* Explain about keys in React applications

{students.map(student => (

<li key={student.id}>{student.name}</li>

))}

* Explain how to extract components with keys

const StudentItem = ({ student }) => {

return <li>{student.name}</li>;

};

const StudentList = () => {

const students = [{ id: 1, name: "John" }, { id: 2, name: "Jane" }];

return (

<ul>

{students.map(student => (

<StudentItem key={student.id} student={student} />

))}

</ul>

);

};

* Explain React Map, map() function

array.map((item, index) => {

return <Component key={index} ... />

});

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.

App.js:

**import React, { useState } from "react";**

**import BookDetails from "./BookDetails";**

**import BlogDetails from "./BlogDetails";**

**import CourseDetails from "./CourseDetails";**

**function App() {**

**const [componentFlag, setComponentFlag] = useState("book"); // can be: 'book', 'blog', 'course'**

**// Using Element Variable**

**let content;**

**if (componentFlag === "book") {**

**content = <BookDetails />;**

**} else if (componentFlag === "blog") {**

**content = <BlogDetails />;**

**} else {**

**content = <CourseDetails />;**

**}**

**return (**

**<div>**

**<h1>Blogger App</h1>**

**<button onClick={() => setComponentFlag("book")}>Show Book</button>**

**<button onClick={() => setComponentFlag("blog")}>Show Blog</button>**

**<button onClick={() => setComponentFlag("course")}>Show Course</button>**

**<hr />**

**{/\* 1. Using Element Variable \*/}**

**{content}**

**{/\* 2. Using Ternary Operator \*/}**

**<div style={{ marginTop: "30px" }}>**

**{componentFlag === "book" ? (**

**<p>Currently viewing Book Details</p>**

**) : componentFlag === "blog" ? (**

**<p>Currently viewing Blog Details</p>**

**) : (**

**<p>Currently viewing Course Details</p>**

**)}**

**</div>**

**{/\* 3. Using Logical AND (&&) \*/}**

**{componentFlag === "course" && (**

**<p style={{ color: "green" }}>Course section is active!</p>**

**)}**

**</div>**

**);**

**}**

**export default App;**

**CourseDetails.js:**

**const CourseDetails = () => {**

**return (**

**<div>**

**<h2>Course Details</h2>**

**<p>Course: Full Stack Development</p>**

**<p>Duration: 3 Months</p>**

**</div>**

**);**

**};**

**export default CourseDetails;**

**BookDetails.js:**

**const BookDetails = () => {**

**return (**

**<div>**

**<h2>Book Details</h2>**

**<p>Title: Learn React</p>**

**<p>Author: Dan Abramov</p>**

**</div>**

**);**

**};**

**export default BookDetails;**

**BlogDetails.js:**

**const BlogDetails = () => {**

**return (**

**<div>**

**<h2>Blog Details</h2>**

**<p>Title: React Conditional Rendering</p>**

**<p>Author: Harshita</p>**

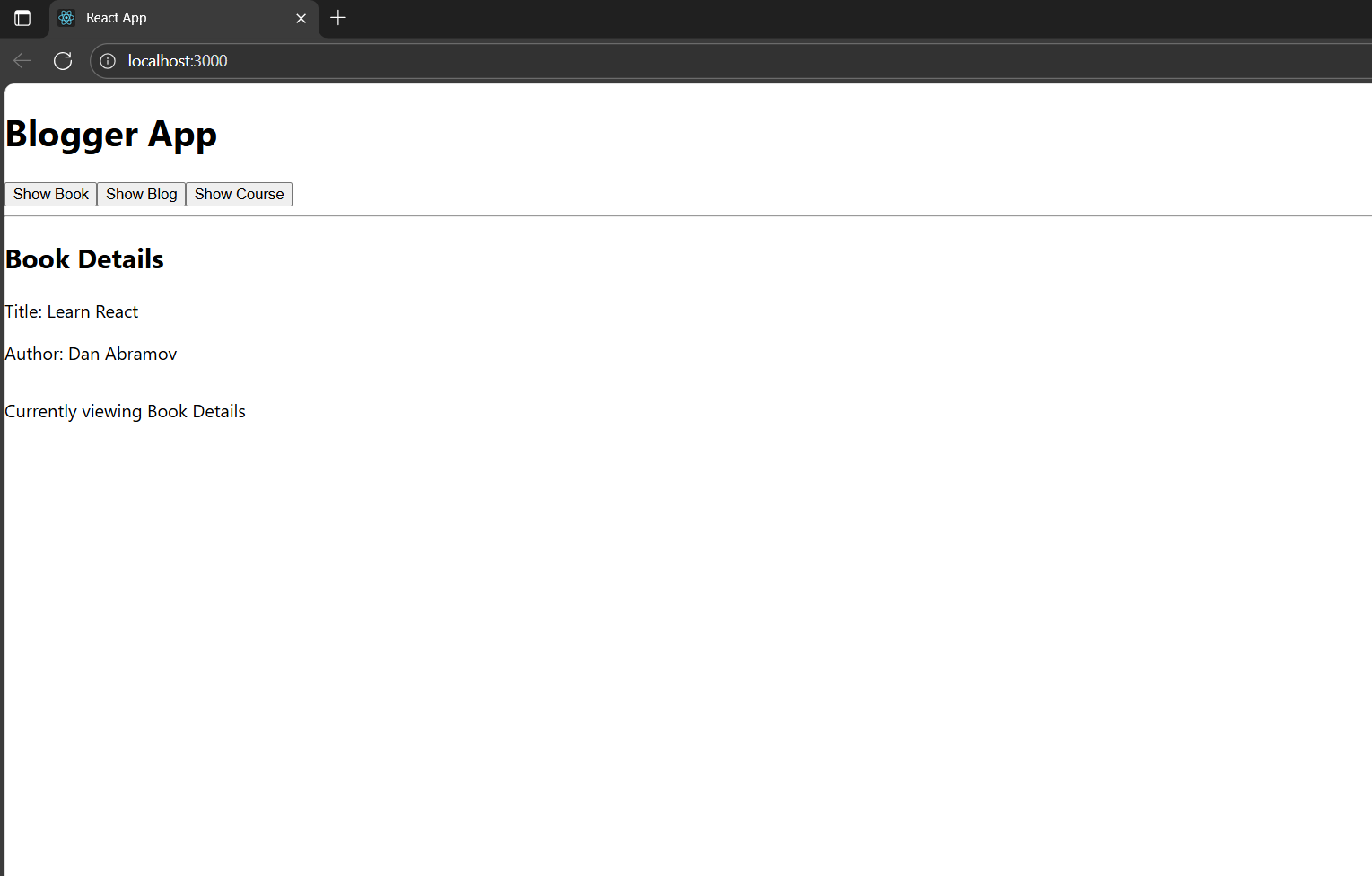
**</div>**

**);**

**};**

**export default BlogDetails;**

**Output:**

****