# React App: bloggerapp - Conditional Rendering Lab

## 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

## Lab Goals

In this hands-on lab, you will learn how to implement conditional rendering in React applications.

## Prerequisites

- Node.js  
- NPM  
- Visual Studio Code

## Estimated Completion Time

60 minutes

## Steps to Create the React App

1. Create the app:

npx create-react-app bloggerapp

cd bloggerapp

npm start

2. Project Structure:

/src  
 ── App.js  
 ── components/  
 ── BookDetails.js  
 ── BlogDetails.js  
 ── CourseDetails.js  
 ── data/  
 ── books.js  
 ── blogs.js  
 ── courses.js

## App.js Code

import React from 'react';  
import BookDetails from './components/BookDetails';  
import BlogDetails from './components/BlogDetails';  
import CourseDetails from './components/CourseDetails';  
import { books } from './data/books';  
import { blogs } from './data/blogs';  
import { courses } from './data/courses';  
  
function App() {  
 const showBooks = true;  
 const showBlogs = true;  
 const showCourses = true;  
  
 return (  
 <div className="container" style={{ display: 'flex', justifyContent: 'space-around' }}>  
 {showCourses && <CourseDetails courses={courses} />}  
 {showBooks ? <BookDetails books={books} /> : <p>No Book Section</p>}  
 {showBlogs && <BlogDetails blogs={blogs} />}  
 </div>  
 );  
}  
  
export default App;

## Component: BookDetails.js

import React from 'react';  
  
const BookDetails = ({ books }) => {  
 if (!books || books.length === 0) {  
 return <p>No Books Available</p>;  
 }  
  
 return (  
 <div className="st2">  
 <h1>Book Details</h1>  
 <ul>  
 {books.map((book) =>  
 book.price > 500 ? (  
 <div key={book.id}>  
 <h3>{book.bname}</h3>  
 <h4>{book.price}</h4>  
 </div>  
 ) : null  
 )}  
 </ul>  
 </div>  
 );  
};  
  
export default BookDetails;

## Component: BlogDetails.js

import React from 'react';  
  
const BlogDetails = ({ blogs }) => {  
 return (  
 <div className="v1">  
 <h1>Blog Details</h1>  
 {blogs.map((blog) => (  
 <div key={blog.id}>  
 <h2>{blog.title}</h2>  
 <h4><i>{blog.author}</i></h4>  
 <p>{blog.content}</p>  
 </div>  
 ))}  
 </div>  
 );  
};  
  
export default BlogDetails;

## Component: CourseDetails.js

import React from 'react';  
  
const CourseDetails = ({ courses }) => {  
 return (  
 <div className="mystyle1">  
 <h1>Course Details</h1>  
 {courses.map((course) => (  
 <div key={course.id}>  
 <h2>{course.name}</h2>  
 <p>{course.date}</p>  
 </div>  
 ))}  
 </div>  
 );  
};  
  
export default CourseDetails;

## Data File: books.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 },  
];

## Data File: blogs.js

export const blogs = [  
 {  
 id: 1,  
 title: 'React Learning',  
 author: 'Stephen Biz',  
 content: 'Welcome to learning React!',  
 },  
 {  
 id: 2,  
 title: 'Installation',  
 author: 'Schewzdenier',  
 content: 'You can install React from npm.',  
 },  
];

## Data File: courses.js

export const courses = [  
 { id: 1, name: 'Angular', date: '4/5/2021' },  
 { id: 2, name: 'React', date: '6/3/20201' },  
];

output:

