13. ReactJS-HOL

Code:

**App.js**

import React, { Component } from 'react';

import './App.css';

import BookDetails from './components/BookDetails';

import BlogDetails from './components/BlogDetails';

import CourseDetails from './components/CourseDetails';

import { books, blogs, courses } from './data/data';

class App extends Component {

constructor() {

super();

// Data initialized as class fields

this.bookData = books;

this.blogData = blogs;

this.courseData = courses;

this.state = {

showBooks: true,

showBlogs: true,

showCourses: true

};

}

// Book section rendered using a method

renderBookSection() {

if (this.state.showBooks) {

return <BookDetails data={this.bookData} />;

} else {

return <p>No Book Info Available</p>;

}

}

render() {

const { showCourses, showBlogs } = this.state;

return (

<div className="main-container">

{/\* 1. CourseDetails using && \*/}

{showCourses && <CourseDetails data={this.courseData} />}

{/\* 2. BookDetails using method \*/}

{this.renderBookSection()}

{/\* 3. BlogDetails using IIFE \*/}

{(() => {

if (showBlogs) {

return <BlogDetails data={this.blogData} />;

} else {

return <p>No Blogs Present</p>;

}

})()}

</div>

);

}

}

export default App;

**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 = [

{ title: "React Learning", author: "Stephen Biz", content: "Welcome to learning React!" },

{ title: "Installation", author: "Schewzdenier", content: "You can install React from npm." }

];

export const courses = [

{ name: "Angular", date: "4/5/2021" },

{ name: "React", date: "6/3/20201" }

];

**CourseDetails.js**

import React, { Component } from 'react';

class CourseDetails extends Component {

render() {

const courseList = this.props.data;

if (!Array.isArray(courseList)) {

return <p>No course data available</p>;

}

return (

<div className="mystyle1">

<h1>Course Details</h1>

{courseList.map((course, index) => (

<div key={index}>

<h2>{course.name}</h2>

<p>{course.date}</p>

</div>

))}

</div>

);

}

}

CourseDetails.defaultProps = {

data: []

};

export default CourseDetails;

**BookDetails.js**

import React, { Component } from 'react';

class BookDetails extends Component {

render() {

const bookList = this.props.data;

if (!Array.isArray(bookList)) {

return <p>No book data available</p>;

}

return (

<div className="st2">

<h1>Book Details</h1>

{bookList.map((book) => (

<div key={book.id}>

<h3>{book.bname}</h3>

<h4>{book.price}</h4>

</div>

))}

</div>

);

}

}

BookDetails.defaultProps = {

data: []

};

export default BookDetails;

**BlogDetails.js**

import React, { Component } from 'react';

class BlogDetails extends Component {

render() {

const blogList = this.props.data;

if (!Array.isArray(blogList)) {

return <p>No blog data available</p>;

}

return (

<div className="v1">

<h1>Blog Details</h1>

{blogList.map((blog, index) => (

<div key={index}>

<h2>{blog.title}</h2>

<h4><b>{blog.author}</b></h4>

<p>{blog.content}</p>

</div>

))}

</div>

);

}

}

BlogDetails.defaultProps = {

data: []

};

export default BlogDetails;

**Output:**

