**WEEK 7**

**13. ReactJS-HOL**

**Rendering Multiple Components**

<>

<Header />

<Body />

<Footer />

</>

**Extracting Components with Keys**

Break down list items into child components:

function Book({ book }) {

return (

<div key={book.id}>

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

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

</div>

);

}

**Hands-on Lab Implementation**

**App Setup**

npx create-react-app bloggerapp

cd bloggerapp

npm start

**Component 1: BookDetails.jsx**

// src/components/BookDetails.jsx

import React from 'react';

function BookDetails({ books }) {

return (

<div>

<h2> Book Details</h2>

<ul>

{books.map((book) => (

<div key={book.id}>

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

<h4>Price: ₹{book.price}</h4>

</div>

))}

</ul>

</div>

);

}

export default BookDetails;

**Component 2: BlogDetails.jsx**

// src/components/BlogDetails.jsx

import React from 'react';

function BlogDetails({ blogs }) {

return (

<div>

<h2>Blog Details</h2>

{blogs.map((blog) => (

<div key={blog.id}>

<h3>{blog.title}</h3>

<h4>Author: {blog.author}</h4>

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

</div>

))}

</div>

);

}

export default BlogDetails;

**Component 3: CourseDetails.jsx**

// src/components/CourseDetails.jsx

import React from 'react';

function CourseDetails({ courses }) {

return (

<div>

<h2> Course Details</h2>

<ul>

{courses.map((course) => (

<li key={course.id}>

{course.name} — {course.date}

</li>

))}

</ul>

</div>

);

}

export default CourseDetails;

**App.js – Conditional Rendering Examples**

// src/App.js

import React, { useState } from 'react';

import BookDetails from './components/BookDetails';

import BlogDetails from './components/BlogDetails';

import CourseDetails from './components/CourseDetails';

function App() {

const [view, setView] = useState('book'); // 'book' | 'blog' | 'course'

// Sample data

const books = [

{ id: 1, bname: 'Master React', price: 670 },

{ id: 2, bname: 'Deep Dive into Angular 11', price: 800 },

{ id: 3, bname: 'Mongo Essentials', price: 450 },

];

const blogs = [

{ id: 1, title: 'React Learning', author: 'Stephen Bir', content: 'Welcome to learning React!' },

{ id: 2, title: 'Installation', author: 'Schewzdenier', content: 'You can install React from npm.' },

];

const courses = [

{ id: 1, name: 'Angular', date: '04/05/2021' },

{ id: 2, name: 'React', date: '06/03/2021' },

];

let content;

// Element variable conditional rendering

if (view === 'book') {

content = <BookDetails books={books} />;

} else if (view === 'blog') {

content = <BlogDetails blogs={blogs} />;

} else {

content = <CourseDetails courses={courses} />;

}

return (

<div style={{ padding: '20px', fontFamily: 'Arial' }}>

<h1>📖 Blogger App</h1>

<div>

<button onClick={() => setView('book')}>Show Books</button>

<button onClick={() => setView('blog')}>Show Blogs</button>

<button onClick={() => setView('course')}>Show Courses</button>

</div>

<hr />

{/\* Render selected content \*/}

{content}

{/\* Conditional rendering using ternary \*/}

<hr />

{books.length === 0 ? <p>No books available</p> : <p>Books loaded: {books.length}</p>}

{/\* Conditional rendering using && \*/}

{courses.length > 0 && <p>Total courses: {courses.length}</p>}

</div>

);

}

export default App;