**9. ReactJS-HOL**

**Step 1: Create React App**

npx create-react-app cricketapp

cd cricketapp

**Step 2: App.js**

import React from 'react';

import ListofPlayers from './ListofPlayers';

import IndianPlayers from './IndianPlayers';

function App() {

const flag = true; // toggle this to false to test the other component

return (

<div className="App">

<h1>🏏 Cricket App</h1>

{flag ? <ListofPlayers /> : <IndianPlayers />}

</div>

);

}

export default App;

**Step 3: ListofPlayers.js**

Create a file ListofPlayers.js:

import React from 'react';

function ListofPlayers() {

const players = [

{ name: "Rohit", score: 85 },

{ name: "Kohli", score: 91 },

{ name: "Rahul", score: 67 },

{ name: "Hardik", score: 78 },

{ name: "Pant", score: 33 },

{ name: "Bumrah", score: 45 },

{ name: "Jadeja", score: 88 },

{ name: "Shami", score: 66 },

{ name: "Ashwin", score: 55 },

{ name: "Gill", score: 94 },

{ name: "Siraj", score: 72 }

];

const filteredPlayers = players.filter(player => player.score < 70);

return (

<div>

<h2>List of All Players</h2>

<ul>

{players.map((player, index) => (

<li key={index}>{player.name} - {player.score}</li>

))}

</ul>

<h3>Filtered Players (Score < 70)</h3>

<ul>

{filteredPlayers.map((player, index) => (

<li key={index}>{player.name} - {player.score}</li>

))}

</ul>

</div>

);

}

export default ListofPlayers;

**Step 4: IndianPlayers.js**

Create a file IndianPlayers.js:

import React from 'react';

function IndianPlayers() {

const allPlayers = ["Rohit", "Kohli", "Rahul", "Hardik", "Pant", "Bumrah", "Jadeja", "Shami", "Ashwin", "Gill", "Siraj"];

// Destructuring into odd and even teams

const oddTeam = allPlayers.filter((\_, i) => i % 2 === 0);

const evenTeam = allPlayers.filter((\_, i) => i % 2 !== 0);

// Merge feature of ES6

const T20players = ["Dhoni", "Yuvraj", "Raina"];

const RanjiTrophyPlayers = ["Pujara", "Rahane"];

const mergedPlayers = [...T20players, ...RanjiTrophyPlayers];

return (

<div>

<h2>Odd Team Players</h2>

<ul>

{oddTeam.map((player, index) => (

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

))}

</ul>

<h2>Even Team Players</h2>

<ul>

{evenTeam.map((player, index) => (

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

))}

</ul>

<h2>Merged T20 and Ranji Players</h2>

<ul>

{mergedPlayers.map((player, index) => (

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

))}

</ul>

</div>

);

}

export default IndianPlayers;

**Step 5: Run the Application**

npm start

**10. ReactJS-HOL**

**Step 1: Create React App**

npx create-react-app officespacerentalapp

cd officespacerentalapp

**Step 2: Replace App.js**

Open src/App.js and replace everything with:

import React from 'react';

function App() {

const heading = <h1>Office Space Rental Listings</h1>;

const officeImage = "https://via.placeholder.com/400x200.png?text=Office+Image";

const office = {

name: "Tech Park",

rent: 55000,

address: "123, IT Highway, Chennai"

};

const officeList = [

{ name: "Tidel Park", rent: 45000, address: "Tharamani, Chennai" },

{ name: "DLF Cyber City", rent: 65000, address: "Mount Poonamallee Rd" },

{ name: "Olympia Tech Park", rent: 72000, address: "Guindy, Chennai" },

{ name: "RMZ Millenia", rent: 58000, address: "Perungudi, Chennai" }

];

const getRentStyle = (rent) => ({

color: rent < 60000 ? 'red' : 'green',

fontWeight: 'bold'

});

return (

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

{heading}

<img src={officeImage} alt="Office Space" style={{ width: '400px', margin: '20px 0' }} />

<h2>Featured Office</h2>

<p><strong>Name:</strong> {office.name}</p>

<p><strong>Address:</strong> {office.address}</p>

<p><strong>Rent:</strong> <span style={getRentStyle(office.rent)}>{office.rent}</span></p>

<h2>All Listings</h2>

<ul>

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

<li key={index} style={{ marginBottom: '15px' }}>

<strong>{item.name}</strong><br />

{item.address}<br />

Rent: <span style={getRentStyle(item.rent)}>{item.rent}</span>

</li>

))}

</ul>

</div>

);

}

export default App;

**Step 3: Run the App**

npm start

**11. ReactJS-HOL**

**Step 1: Create React App**

npx create-react-app eventexamplesapp

cd eventexamplesapp

**Step 2: Replace App.js**

Open src/App.js and replace everything with:

import React, { useState } from 'react';

import CurrencyConverter from './CurrencyConverter';

function App() {

const [count, setCount] = useState(0);

const increment = () => {

setCount(prev => prev + 1);

sayHello();

showMessage();

};

const decrement = () => {

setCount(prev => prev - 1);

};

const sayHello = () => {

alert("Hello!");

};

const showMessage = () => {

alert("This is a static message.");

};

const sayWelcome = (message) => {

alert(message);

};

const handleClick = (event) => {

alert("I was clicked");

console.log("Synthetic Event:", event);

};

return (

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

<h1>React Event Handling App</h1>

<h2>Counter: {count}</h2>

<button onClick={increment}>Increment</button>

<button onClick={decrement} style={{ marginLeft: '10px' }}>Decrement</button>

<hr />

<button onClick={() => sayWelcome("Welcome to React!")}>Say Welcome</button>

<hr />

<button onClick={handleClick}>Synthetic Event Button</button>

<hr />

<CurrencyConverter />

</div>

);

}

export default App;

**Step 3: Create CurrencyConverter.js**

Create a file src/CurrencyConverter.js and add:

import React, { useState } from 'react';

function CurrencyConverter() {

const [rupees, setRupees] = useState('');

const [euros, setEuros] = useState('');

const handleConvert = (e) => {

e.preventDefault();

const result = (parseFloat(rupees) / 90).toFixed(2); // assuming 1 Euro = ₹90

setEuros(result);

};

return (

<div>

<h2>Currency Converter</h2>

<form onSubmit={handleConvert}>

<input

type="number"

value={rupees}

onChange={(e) => setRupees(e.target.value)}

placeholder="Enter amount in ₹"

required

/>

<button type="submit" style={{ marginLeft: '10px' }}>Convert</button>

</form>

{euros && (

<p>€ {euros} Euro</p>

)}

</div>

);

}

export default CurrencyConverter;

**Step 4: Run the App**

npm start

**12. ReactJS-HOL**

**Step 1: Create React App**

npx create-react-app ticketbookingapp

cd ticketbookingapp

**Step 2: Replace App.js**

Open src/App.js and replace everything with:

import React, { useState } from 'react';

function App() {

const [isLoggedIn, setIsLoggedIn] = useState(false);

const handleLogin = () => {

setIsLoggedIn(true);

}

const handleLogout = () => {

setIsLoggedIn(false);

}

let pageContent;

if (isLoggedIn) {

pageContent = (

<div>

<h2>Welcome, User!</h2>

<p>You can now book your flight tickets.</p>

<button onClick={handleLogout}>Logout</button>

</div>

);

} else {

pageContent = (

<div>

<h2>Welcome, Guest!</h2>

<p>You can browse available flight details. Login to book tickets.</p>

<button onClick={handleLogin}>Login</button>

</div>

);

}

return (

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

<h1>✈️ Ticket Booking App</h1>

{pageContent}

</div>

);

}

export default App;

**Step 3: Run the App**

npm start

**13. ReactJS-HOL**

Step 1: Create React App

npx create-react-app bloggerapp

cd bloggerapp

**Step 2: Replace App.js**

Open src/App.js and replace with:

import React, { useState } from 'react';

import BookDetails from './BookDetails';

import BlogDetails from './BlogDetails';

import CourseDetails from './CourseDetails';

function App() {

const [view, setView] = useState("book");

let content;

if (view === "book") {

content = <BookDetails />;

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

content = <BlogDetails />;

} else if (view === "course") {

content = <CourseDetails />;

}

return (

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

<h1>📚 Blogger App</h1>

<button onClick={() => setView("book")}>Book Details</button>

<button onClick={() => setView("blog")} style={{ margin: "0 10px" }}>Blog Details</button>

<button onClick={() => setView("course")}>Course Details</button>

<hr />

{/\* Using element variable \*/}

{content}

{/\* Using ternary operator \*/}

{/\* {view === "book" ? <BookDetails /> : view === "blog" ? <BlogDetails /> : <CourseDetails />} \*/}

{/\* Using short-circuit \*/}

{/\* {view === "book" && <BookDetails />} \*/}

</div>

);

}

export default App;

**Step 3: Create Component Files**

**BookDetails.js**

import React from 'react';

function BookDetails() {

const books = [

{ id: 1, title: "Clean Code", author: "Robert C. Martin" },

{ id: 2, title: "Atomic Habits", author: "James Clear" },

{ id: 3, title: "Deep Work", author: "Cal Newport" }

];

return (

<div>

<h2>Book Details</h2>

<ul>

{books.map(book => (

<li key={book.id}>{book.title} by {book.author}</li>

))}

</ul>

</div>

);

}

export default BookDetails;

**CourseDetails.js**

import React from 'react';

function CourseDetails() {

const courses = [

{ id: 1, name: "React Fundamentals", instructor: "John Doe" },

{ id: 2, name: "Advanced JavaScript", instructor: "Jane Smith" }

];

return (

<div>

<h2>Course Details</h2>

<ul>

{courses.map(course => (

<li key={course.id}>{course.name} by {course.instructor}</li>

))}

</ul>

</div>

);

}

export default CourseDetails;

**Step 4: Run the App**

npm start