**Week 7**

**React**

**1.Program**

import React from "react";

const ListofPlayers = () => {

const players = [

{ name: "Virat Kohli", score: 92 },

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

{ name: "Shubman Gill", score: 68 },

{ name: "KL Rahul", score: 74 },

{ name: "Hardik Pandya", score: 61 },

{ name: "Ravindra Jadeja", score: 49 },

{ name: "Shreyas Iyer", score: 72 },

{ name: "Suryakumar Yadav", score: 80 },

{ name: "Jasprit Bumrah", score: 30 },

{ name: "Mohammed Shami", score: 45 },

{ name: "Kuldeep Yadav", score: 70 },

];

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

return (

<div>

<h2>All Players</h2>

<ul>

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

<li key={index}>

{player.name} - {player.score}

</li>

))}

</ul>

<h3>Players with score below 70</h3>

<ul>

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

<li key={index}>

{player.name} - {player.score}

</li>

))}

</ul>

</div>

);

};

export default ListofPlayers;

**IndianPlayers.js**

import React from "react";

const IndianPlayers = () => {

const oddTeam = ["Virat", "KL Rahul", "Hardik", "Bumrah", "Iyer"];

const evenTeam = ["Rohit", "Gill", "Jadeja", "Shami", "Kuldeep", "SKY"];

const [player1, player2, ...restOdd] = oddTeam;

const [even1, even2, ...restEven] = evenTeam;

const T20players = ["Rohit", "Virat", "Gill", "SKY"];

const RanjiTrophyPlayers = ["Sarfaraz", "Rajat Patidar", "Abhimanyu Easwaran"];

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

return (

<div>

<h2>Odd Team Players</h2>

<ul>

<li>{player1}</li>

<li>{player2}</li>

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

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

))}

</ul>

<h2>Even Team Players</h2>

<ul>

<li>{even1}</li>

<li>{even2}</li>

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

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

))}

</ul>

<h2>Merged T20 & Ranji Trophy Players</h2>

<ul>

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

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

))}

</ul>

</div>

);

};

export default IndianPlayers;

**App.js**

import React from "react";

import ListofPlayers from "./components/ListofPlayers";

import IndianPlayers from "./components/IndianPlayers";

function App() {

const flag = true

return (

<div className="App">

<h1> Cricket App</h1>

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

</div>

);

}

export default App;

**2.Program**

import React from "react";

import "./OfficeList.css"; // Optional: for custom styling

const OfficeList = () => {

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

const officeImage = (

<img

src="https://images.unsplash.com/photo-1596496053956-b186769c15a6"

alt="Office Space"

width="500"

style={{ borderRadius: "10px", marginBottom: "20px" }}

/>

);

const offices = [

{

name: "Tech Tower",

rent: 55000,

address: "123 Silicon Avenue, Bangalore",

},

{

name: "Startup Hub",

rent: 75000,

address: "45 Innovation Street, Hyderabad",

},

{

name: "Prime Workspace",

rent: 60000,

address: "7 Business Bay, Chennai",

},

{

name: "Elite Space",

rent: 90000,

address: "12th Floor, Corporate Heights, Mumbai",

},

];

return (

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

{heading}

{officeImage}

{offices.map((office, index) => (

<div

key={index}

style={{

border: "1px solid #ddd",

borderRadius: "10px",

margin: "10px auto",

padding: "15px",

width: "60%",

backgroundColor: "#f9f9f9",

textAlign: "left",

}}

>

<h3>{office.name}</h3>

<p>

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

</p>

<p>

<strong>Rent: </strong>

<span

style={{

color: office.rent < 60000 ? "red" : "green",

fontWeight: "bold",

}}

>

₹{office.rent}

</span>

</p>

</div>

))}

</div>

);

};

export default OfficeList;

**App.js**

import React from "react";

import OfficeList from "./OfficeList";

function App() {

return (

<div className="App">

<OfficeList />

</div>

);

export default App;

**3.Program**

import React, { useState } from "react";

const Counter = () => {

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

const handleIncrement = () => {

incrementValue();

sayHello();

};

const incrementValue = () => {

setCount(count + 1);

};

const sayHello = () => {

alert("Hello! You've clicked the increment button.");

};

const handleDecrement = () => {

setCount(count - 1);

};

const sayWelcome = (message) => {

alert(message);

};

const handleClick = (e) => {

alert("I was clicked");

};

return (

<div style={{ marginBottom: "40px" }}>

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

<button onClick={handleIncrement}>Increment</button>&nbsp;

<button onClick={handleDecrement}>Decrement</button>&nbsp;

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

Say Welcome

</button>&nbsp;

<button onClick={handleClick}>OnPress</button>

</div>

);

};

export default Counter;

**CurrencyCounter.js**

import React, { useState } from "react";

const CurrencyConvertor = () => {

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

const [euro, setEuro] = useState("");

const handleSubmit = () => {

const conversionRate = 90;

const result = (rupees / conversionRate).toFixed(2);

setEuro(result);

};

return (

<div>

<h2>Currency Convertor (INR to Euro)</h2>

<input

type="number"

placeholder="Enter Rupees"

value={rupees}

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

/>

&nbsp;

<button onClick={handleSubmit}>Convert</button>

<p>Equivalent Euro: {euro}</p>

</div>

);

};

export default CurrencyConvertor;

**App.js**

import React from "react";

import Counter from "./Components/Counter";

import CurrencyConvertor from "./Components/CurrencyConvertor";

function App() {

return (

<div className="App" style={{ padding: "20px" }}>

<h1>Event Examples App</h1>

<Counter />

<CurrencyConvertor />

</div>

);

}

export default App;

**4.Program**

import React from "react";

import FlightDetails from "./FlightDetails";

const GuestPage = () => {

return (

<div>

<h2>Welcome Guest</h2>

<p>Please log in to book tickets.</p>

<FlightDetails />

</div>

);

};

export default GuestPage;

**UserPage.js**

import React from "react";

import FlightDetails from "./FlightDetails";

const UserPage = () => {

return (

<div>

<h2>Welcome User</h2>

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

<FlightDetails allowBooking={true} />

</div>

);

};

export default UserPage;

**FlightDetails.js**

import React from "react";

const flights = [

{ id: 1, name: "Indigo", from: "Chennai", to: "Delhi", price: 4200 },

{ id: 2, name: "Air India", from: "Mumbai", to: "Bangalore", price: 5500 },

{ id: 3, name: "SpiceJet", from: "Hyderabad", to: "Kolkata", price: 4800 },

];

const FlightDetails = ({ allowBooking }) => {

return (

<div>

<h3>Flight Details</h3>

<ul>

{flights.map((flight) => (

<li key={flight.id}>

{flight.name} | {flight.from} ➡ {flight.to} | ₹{flight.price}{" "}

{allowBooking && (

<button onClick={() => alert("Ticket booked!")}>Book</button>

)}

</li>

))}

</ul>

</div>

);

};

export default FlightDetails;

**App.js**

import React, { useState } from "react";

import GuestPage from "./Components/GuestPage";

import UserPage from "./Components/UserPage";

function App() {

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

const handleLoginLogout = () => {

setIsLoggedIn((prev) => !prev);

};

return (

<div className="App" style={{ padding: "20px" }}>

<h1>✈️ Ticket Booking App</h1>

<button onClick={handleLoginLogout}>

{isLoggedIn ? "Logout" : "Login"}

</button>

<hr />

{isLoggedIn ? <UserPage /> : <GuestPage />}

</div>

);

}

export default App;

**5.Program**

**BookDetails.js**

jsx

CopyEdit

const BookDetails = () => {

return <h3>Book Details Component</h3>;

};

export default BookDetails;

**BlogDetails.js**

jsx

CopyEdit

const BlogDetails = () => {

return <h3>Blog Details Component</h3>;

};

export default BlogDetails;

**CourseDetails.js**

jsx

CopyEdit

const CourseDetails = () => {

return <h3>Course Details Component</h3>;

};

export default CourseDetails;

**App.js**

jsx

CopyEdit

import React, { useState } from "react";

import BookDetails from "./Components/BookDetails";

import BlogDetails from "./Components/BlogDetails";

import CourseDetails from "./Components/CourseDetails";

function App() {

const [componentToShow, setComponentToShow] = useState("none");

const renderComponentIfElse = () => {

if (componentToShow === "book") return <BookDetails />;

else if (componentToShow === "blog") return <BlogDetails />;

else if (componentToShow === "course") return <CourseDetails />;

else return <p>Please select an option.</p>;

};

return (

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

<h1>BloggerApp</h1>

<div style={{ marginBottom: "20px" }}>

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

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

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

<button onClick={() => setComponentToShow("none")}>Clear</button>

</div>

<h2>1. IF-ELSE Rendering</h2>

{renderComponentIfElse()}

<hr />

<h2> 2. Ternary Operator</h2>

{componentToShow === "book" ? (

<BookDetails />

) : componentToShow === "blog" ? (

<BlogDetails />

) : componentToShow === "course" ? (

<CourseDetails />

) : (

<p>No component selected.</p>

)}

<hr />

<h2>3. Logical AND Rendering</h2>

{componentToShow === "book" && <BookDetails />}

{componentToShow === "blog" && <BlogDetails />}

{componentToShow === "course" && <CourseDetails />}

</div>

);

}

export default App;