Week 7 – REACT

9. **CRICKETAPP**

import React from "react";

const IndianPlayers = () => {

const oddTeam = ["Virat", "Bumrah", "Gill", "Dhoni", "Rahul"];

const evenTeam = ["Rohit", "Jadeja", "Hardik", "Shami", "Pant", "Chahal"];

// Destructuring first 2 and rest from each team

const [firstOdd, secondOdd, ...restOdd] = oddTeam;

const [firstEven, secondEven, ...restEven] = evenTeam;

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

const RanjiTrophyPlayers = ["Dhoni", "Rahul"];

// Merging arrays using ES6 spread

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

return (

<div>

<h2>Odd Team Players:</h2>

<p>

{firstOdd}, {secondOdd}, {restOdd.join(", ")}

</p>

<h2>Even Team Players:</h2>

<p>

{firstEven}, {secondEven}, {restEven.join(", ")}

</p>

<h3>Merged T20 + Ranji Players:</h3>

<ul>

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

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

))}

</ul>

</div>

);

};

export default IndianPlayers;

OUTPUT:

**Odd Team Players:**

Virat, Bumrah, Gill, Dhoni, Rahul

**Even Team Players:**

Rohit, Jadeja, Hardik, Shami, Pant, Chahal

**Merged T20 + Ranji Players:**

* Virat
* Rohit
* Gill
* Dhoni
* Rahul

10. **OFFICE SPACE RENTAL APP:**

**App.js**

import React from 'react';

import './App.css';

const App = () => {

// Single office object

const office = {

name: "Sky Tower Office",

rent: 55000,

address: "123 Business Street, Mumbai",

image: "https://via.placeholder.com/400x200?text=Sky+Tower+Office"

};

// List of office spaces

const officeList = [

{

name: "Sky Tower Office",

rent: 55000,

address: "123 Business Street, Mumbai",

image: "https://via.placeholder.com/400x200?text=Sky+Tower+Office"

},

{

name: "Green Valley Workspace",

rent: 72000,

address: "45 Tech Park Road, Pune",

image: "https://via.placeholder.com/400x200?text=Green+Valley"

},

{

name: "Ocean View Corporate",

rent: 85000,

address: "67 Sea Link Blvd, Mumbai",

image: "https://via.placeholder.com/400x200?text=Ocean+View"

},

{

name: "Budget Office Suite",

rent: 40000,

address: "78 Market Area, Delhi",

image: "https://via.placeholder.com/400x200?text=Budget+Office"

}

];

return (

<div className="App">

<h1> Office Space Rental App</h1>

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

<div key={index} className="office-card">

<img src={item.image} alt={item.name} className="office-image" />

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

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

<p>

<strong>Rent:</strong>{" "}

<span

style={{

color: item.rent < 60000 ? "red" : "green"

}}

>

₹{item.rent.toLocaleString()}

</span>

</p>

</div>

))}

</div>

);

};

export default App;

**App.css:**

.App {

text-align: center;

font-family: Arial, sans-serif;

padding: 20px;

}

.office-card {

border: 1px solid #ccc;

margin: 20px auto;

padding: 20px;

width: 80%;

max-width: 500px;

box-shadow: 2px 2px 12px rgba(0,0,0,0.1);

border-radius: 10px;

}

.office-image {

width: 100%;

height: auto;

border-radius: 5px;

}

11. **EVENT EXAMPLE APP**

**App.js:**

import React, { useState } from 'react';

import './App.css';

import CurrencyConverter from './CurrencyConverter';

function App() {

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

// Function to increment counter

const increment = () => {

setCount(count + 1);

sayHello();

};

// Say hello function

const sayHello = () => {

console.log("Hello! The counter was incremented.");

};

// Decrement function

const decrement = () => {

setCount(count - 1);

};

// Welcome function with argument

const sayWelcome = (message) => {

alert(message);

};

// Synthetic event handler

const handleClick = (e) => {

console.log("I was clicked!");

alert("I was clicked!");

};

return (

<div className="App">

<h1> Event Examples App</h1>

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

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

<button onClick={decrement}>Decrement</button>

<hr />

<button onClick={() => sayWelcome("Welcome to the event handler demo!")}>

Say Welcome

</button>

<hr />

<button onClick={handleClick}>Click Me (Synthetic Event)</button>

<hr />

<CurrencyConverter />

</div>

);

}

export default App;

**CurrencyConvertor.js:**

import React, { useState } from 'react';

const CurrencyConverter = () => {

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

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

const handleSubmit = (e) => {

e.preventDefault();

const conversionRate = 0.011; // Example: 1 INR = 0.011 EUR

const result = parseFloat(rupees) \* conversionRate;

setEuros(result.toFixed(2));

};

return (

<div>

<h2> Currency Converter</h2>

<form onSubmit={handleSubmit}>

<input

type="number"

value={rupees}

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

placeholder="Enter INR"

/>

<button type="submit">Convert</button>

</form>

{euros && (

<p>

₹{rupees} = €{euros}

</p>

)}

</div>

);

};

export default CurrencyConverter;

**App.css:**

.App {

text-align: center;

font-family: sans-serif;

padding: 20px;

}

button {

margin: 10px;

padding: 10px 15px;

font-size: 16px;

cursor: pointer;

}

12. **TICKET BOOKING APP**

**App.js**

// src/App.js

import React, { useState } from "react";

import GuestPage from "./GuestPage";

import UserPage from "./UserPage";

function App() {

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

const handleLogin = () => {

setIsLoggedIn(true);

};

const handleLogout = () => {

setIsLoggedIn(false);

};

return (

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

<h1>✈️ Ticket Booking App</h1>

{/\* Login/Logout Buttons \*/}

{!isLoggedIn ? (

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

) : (

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

)}

<hr />

{/\* Conditional Page Rendering \*/}

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

</div>

);

}

export default App;

**GuestPage.js**

// src/GuestPage.js

import React from "react";

const flightDetails = [

{ flight: "IndiGo 6E 203", from: "Delhi", to: "Mumbai", time: "10:30 AM" },

{ flight: "Air India AI 887", from: "Chennai", to: "Bangalore", time: "12:15 PM" },

{ flight: "SpiceJet SG 407", from: "Kolkata", to: "Hyderabad", time: "3:45 PM" },

];

const GuestPage = () => {

return (

<div>

<h2>Welcome, Guest!</h2>

<p>Please login to book tickets.</p>

<h3>Available Flights</h3>

<ul>

{flightDetails.map((flight, index) => (

<li key={index}>

<strong>{flight.flight}</strong> – {flight.from} to {flight.to} at {flight.time}

</li>

))}

</ul>

</div>

);

};

export default GuestPage;

**UserPage.js**

// src/UserPage.js

import React, { useState } from "react";

const flightDetails = [

{ flight: "IndiGo 6E 203", from: "Delhi", to: "Mumbai", time: "10:30 AM" },

{ flight: "Air India AI 887", from: "Chennai", to: "Bangalore", time: "12:15 PM" },

{ flight: "SpiceJet SG 407", from: "Kolkata", to: "Hyderabad", time: "3:45 PM" },

];

const UserPage = () => {

const [message, setMessage] = useState("");

const handleBook = (flightName) => {

setMessage(` Ticket booked for ${flightName}`);

};

return (

<div>

<h2>Welcome, User!</h2>

<p>Select a flight to book your ticket.</p>

<h3>Available Flights</h3>

<ul>

{flightDetails.map((flight, index) => (

<li key={index}>

<strong>{flight.flight}</strong> – {flight.from} to {flight.to} at {flight.time}

<button

style={{ marginLeft: "10px" }}

onClick={() => handleBook(flight.flight)}

>

Book Ticket

</button>

</li>

))}

</ul>

{message && <p style={{ color: "green", fontWeight: "bold" }}>{message}</p>}

</div>

);

};

export default UserPage;

**App.css**

button {

padding: 8px 12px;

margin: 10px 0;

background-color: #1976d2;

color: white;

border: none;

border-radius: 4px;

cursor: pointer;

}

button:hover {

background-color: #145ea8;

}