**WEEK-7**

**React JS HandsOn**

Create a React Application named “officespacerentalapp” which uses React JSX to create elements, attributes and renders DOM to display the page.

Create an element to display the heading of the page.

Attribute to display the image of the office space

Create an object of office to display the details like Name, Rent and Address.

Create a list of Object and loop through the office space item to display more data.

To apply Css, Display the color of the Rent in Red if it’s below 60000 and in Green if it’s above 60000.

// OfficeCard.js

import React from "react";

const OfficeCard = ({ title, rent, location, isFeatured }) => {

const rentStyle = {

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

fontWeight: 600,

};

return (

<div

style={{

border: isFeatured ? "2px solid #0070f3" : "1px solid #ccc",

borderRadius: 8,

padding: 12,

marginBottom: 16,

background: isFeatured ? "#f0f8ff" : "#fff",

maxWidth: 450,

}}

>

<h3>{title}</h3>

<p>

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

<span style={rentStyle}>₹{rent.toLocaleString()}</span>

</p>

<p>

<strong>Location:</strong> {location}

</p>

</div>

);

};

export default OfficeCard;

// App.js

import React from "react";

import OfficeCard from "./OfficeCard";

function App() {

const featuredSpace = {

title: "Premium Office Space",

rent: 55000,

location: "123 Business Park, Mumbai",

};

const availableSpaces = [

{ title: "Eco Workspace", rent: 45000, location: "Delhi" },

{ title: "Startup Hub", rent: 75000, location: "Bangalore" },

{ title: "Luxury Suite", rent: 90000, location: "Hyderabad" },

{ title: "Budget Office", rent: 30000, location: "Chennai" },

];

return (

<div style={{ padding: 24, fontFamily: "Segoe UI, Arial, sans-serif" }}>

<h1>Office Space Rental Portal</h1>

<div style={{ margin: "20px 0" }}>

<img

src="https://images.unsplash.com/photo-1581091012184-7e0cdfbb6795"

alt="Office interior"

style={{

width: "100%",

maxWidth: 500,

borderRadius: 12,

objectFit: "cover",

}}

/>

</div>

<section>

<h2>Featured Workspace</h2>

<OfficeCard

title={featuredSpace.title}

rent={featuredSpace.rent}

location={featuredSpace.location}

isFeatured

/>

</section>

<section>

<h2>Other Available Offices</h2>

{availableSpaces.map((space, idx) => (

<OfficeCard

key={idx}

title={space.title}

rent={space.rent}

location={space.location}

/>

))}

</section>

</div>

);

}

export default App;

2-Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.

// CurrencyConverter.js

import React, { useState } from "react";

const CurrencyConverter = () => {

const [inr, setInr] = useState("");

const [converted, setConverted] = useState("");

const onSubmit = (e) => {

e.preventDefault();

if (!inr) return;

const euro = parseFloat(inr) / 90;

setConverted(euro.toFixed(2));

};

return (

<div style={{ marginTop: 30 }}>

<h2>Currency Converter</h2>

<form onSubmit={onSubmit}>

<label>

INR:

<input

type="number"

value={inr}

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

required

style={{ marginLeft: 8 }}

/>

</label>

<button type="submit" style={{ marginLeft: 12 }}>

Convert

</button>

</form>

{converted && (

<p style={{ marginTop: 10 }}>

<strong>Euros:</strong> €{converted}

</p>

)}

</div>

);

};

export default CurrencyConverter;

// App.js

import React, { useState } from "react";

import CurrencyConverter from "./CurrencyConverter";

function App() {

const [counter, setCounter] = useState(0);

const increment = () => setCounter((c) => c + 1);

const decrement = () => setCounter((c) => c - 1);

const handleIncrement = () => {

increment();

console.log("Hello! You clicked Increment.");

};

const welcomeUser = (message) => {

alert(`Message: ${message}`);

};

const handleSyntheticClick = (e) => {

console.log("Synthetic Event fired", e);

alert("Button clicked!");

};

return (

<div style={{ padding: 24, fontFamily: "Verdana, sans-serif" }}>

<h1>Event Handling Demo</h1>

<div style={{ margin: "16px 0" }}>

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

<button onClick={handleIncrement} style={{ marginRight: 8 }}>

+ Increment

</button>

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

</div>

<div style={{ marginTop: 16 }}>

<button onClick={() => welcomeUser("Welcome to React events!")}>

Show Welcome

</button>

</div>

<div style={{ marginTop: 16 }}>

<button onClick={handleSyntheticClick}>

Synthetic Event Example

</button>

</div>

<CurrencyConverter />

</div>

);

}

export default App;

3. Create a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.

The Login and Logout buttons should accordingly display different pages. Once the user is logged in the User page should be displayed. When the user clicks on Logout, the Guest page should be displayed.

// components/GuestView.js

import React from "react";

const flightList = [

{ flightNo: "AI101", destination: "New York", time: "10:30 AM" },

{ flightNo: "AI202", destination: "London", time: "2:45 PM" },

{ flightNo: "AI303", destination: "Dubai", time: "6:00 PM" },

];

const GuestView = () => {

return (

<div>

<h2>Welcome, Guest!</h2>

<p>Please log in to book tickets. You can browse available flights below:</p>

<ul>

{flightList.map((f, idx) => (

<li key={idx}>

Flight: {f.flightNo} | Destination: {f.destination} | Time: {f.time}

</li>

))}

</ul>

</div>

);

};

export default GuestView;

// components/UserView.js

import React from "react";

const userFlights = [

{ flightNo: "AI101", destination: "New York", time: "10:30 AM" },

{ flightNo: "AI202", destination: "London", time: "2:45 PM" },

{ flightNo: "AI303", destination: "Dubai", time: "6:00 PM" },

];

const UserView = () => {

const bookTicket = (flightNo) => {

alert(`Successfully booked ticket for ${flightNo}`);

};

return (

<div>

<h2>Welcome Back!</h2>

<p>Choose a flight and book your seat:</p>

<ul>

{userFlights.map((flight, i) => (

<li key={i} style={{ marginBottom: 8 }}>

<span>

{flight.flightNo} → {flight.destination} at {flight.time}

</span>{" "}

<button onClick={() => bookTicket(flight.flightNo)}>

Book

</button>

</li>

))}

</ul>

</div>

);

};

export default UserView;

// App.js

import React, { useState } from "react";

import GuestView from "./components/GuestView";

import UserView from "./components/UserView";

function App() {

const [authenticated, setAuthenticated] = useState(false);

return (

<div style={{ padding: 24, fontFamily: "Tahoma, sans-serif" }}>

<h1>Ticket Booking Portal</h1>

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

{authenticated ? (

<button onClick={() => setAuthenticated(false)}>Logout</button>

) : (

<button onClick={() => setAuthenticated(true)}>Login</button>

)}

</div>

{authenticated ? <UserView /> : <GuestView />}

</div>

);

}

export default App;

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Create a React App named “bloggerapp” in with 3 components.

1. Book Details
2. Blog Details
3. Course Details

// components/BlogInfo.js

import React from "react";

const posts = [

{

title: "Getting Started with React",

author: "Stephen Biz",

summary: "An introduction to building UIs with React.",

},

{

title: "React Setup",

author: "Schewzdenier",

summary: "Steps to install and configure React from npm.",

},

];

const BlogInfo = () => (

<div className="section">

<h2>Blog Posts</h2>

{posts.map((p, i) => (

<div key={i}>

<strong>{p.title}</strong>

<p>

<em>By {p.author}</em>

</p>

<p>{p.summary}</p>

</div>

))}

</div>

);

export default BlogInfo;

// App.js

import React, { useState } from "react";

import BookInfo from "./components/BookInfo";

import BlogInfo from "./components/BlogInfo";

import CourseInfo from "./components/CourseInfo";

const App = () => {

const [currentView, setCurrentView] = useState("book");

const renderByIfElse = () => {

if (currentView === "book") return <BookInfo />;

if (currentView === "blog") return <BlogInfo />;

if (currentView === "course") return <CourseInfo />;

return <p>Select a section to view details.</p>;

};

return (

<div style={{ padding: 24, fontFamily: "Calibri, sans-serif" }}>

<h1>BloggerApp</h1>

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

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

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

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

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

</div>

{/\* 1. If-Else Rendering \*/}

<div>{renderByIfElse()}</div>

{/\* 2. Ternary Example \*/}

<div style={{ marginTop: 30 }}>

<h2>Ternary Rendering</h2>

{currentView === "blog" ? (

<p>

You are currently viewing the <strong>Blog</strong> section.

</p>

) : (

<p>You are not in the blog section.</p>

)}

</div>

{/\* 3. Logical AND Example \*/}

<div style={{ marginTop: 20 }}>

<h2>Logical AND Rendering</h2>

{currentView === "course" && (

<p>This is a featured professional course.</p>

)}

</div>

</div>

);

};

export default App;