**Create a React Application named “cricketapp” with the following components:**

1. **ListofPlayers**

* **Declare an array with 11 players and store details of their names and scores using the map feature of ES6**
* **Filter the players with scores below 70 using arrow functions of ES6.**

1. **IndianPlayers**
   1. **Display the Odd Team Player and Even Team players using the Destructuring features of ES6**
   2. **Declare two arrays T20players and RanjiTrophy players and merge the two arrays and display them using the Merge feature of ES6**

**Display these two components in the same home page using a simple if else in the flag variable.**

**#1 create a new React App**

npx create-react-app cricketapp

cd cricketapp

code

**#2 list of players**

import React from 'react';

const ListofPlayers = () => {

const players = [

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

{ name: 'Virat', score: 95 },

{ name: 'Dhoni', score: 45 },

{ name: 'Gill', score: 30 },

{ name: 'Hardik', score: 70 },

{ name: 'Jadeja', score: 65 },

{ name: 'Bumrah', score: 60 },

{ name: 'Shami', score: 75 },

{ name: 'Pant', score: 50 },

{ name: 'KL Rahul', score: 90 },

{ name: 'Surya', score: 55 }

];

// Players with score below 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>

<h2>Players with Score Below 70</h2>

<ul>

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

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

))}

</ul>

</div>

);

};

export default ListofPlayers;

**#3 indian players.js**

import React from 'react';

const IndianPlayers = () => {

const oddTeam = ['Rohit', 'Virat', 'Dhoni', 'Gill', 'Hardik'];

const evenTeam = ['Jadeja', 'Bumrah', 'Shami', 'Pant', 'KL Rahul'];

// Destructuring Example

const [odd1, odd2, ...restOdd] = oddTeam;

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

// Merge Example

const T20players = ['Surya', 'Iyer', 'Rinku'];

const RanjiTrophyPlayers = ['Shaw', 'Sarfaraz', 'Jaiswal'];

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

return (

<div>

<h2>Odd Team Players</h2>

<ul>

<li>{odd1}</li>

<li>{odd2}</li>

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

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

))}

</ul>

<h2>Even Team Players</h2>

<ul>

<li>{even1}</li>

<li>{even2}</li>

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

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

))}

</ul>

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

<ul>

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

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

))}

</ul>

</div>

);

};

export default IndianPlayers;

**#4 Modify App.js**

import React, { useState } from 'react';

import ListofPlayers from './components/ListofPlayers';

import IndianPlayers from './components/IndianPlayers';

function App() {

const [flag, setFlag] = useState(true);

return (

<div className="App">

<h1>Cricket App</h1>

<button onClick={() => setFlag(!flag)}>

Toggle Component

</button>

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

</div>

);

}

export default App;

**#output**



**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.**

**#1 Create a new react application**

npx create-react-app officespacerentalapp

cd officespacerentalapp

code .

**#2 Create the main component**

import React from 'react';

import officeImage from './office.jpg'; // Add an image named office.jpg in src folder

const OfficeSpace = () => {

// Single office object

const office = {

name: "Prestige Tech Park",

rent: 55000,

address: "Whitefield, Bangalore"

};

// List of office objects

const officeList = [

{ name: "RMZ Ecoworld", rent: 75000, address: "Bellandur, Bangalore" },

{ name: "WeWork Embassy", rent: 45000, address: "Indiranagar, Bangalore" },

{ name: "Mindspace", rent: 80000, address: "Hitech City, Hyderabad" },

{ name: "SP Infocity", rent: 60000, address: "Guindy, Chennai" }

];

// Function to apply rent color

const rentStyle = (amount) => ({

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

fontWeight: 'bold'

});

return (

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

{/\* Heading \*/}

<h1>Office Space Rental App</h1>

{/\* Office Image \*/}

<img src={officeImage} alt="Office Space" width="300" />

{/\* Single Office Details \*/}

<h2>Featured Office</h2>

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

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

<p>

<strong>Rent:</strong>

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

</p>

{/\* Office List \*/}

<h2>Available Office Spaces</h2>

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

<div key={index} style={{ marginBottom: '20px' }}>

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

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

<p>

<strong>Rent:</strong>

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

</p>

<hr />

</div>

))}

</div>

);

};

export default OfficeSpace;

**#3 modify App**

import React from 'react';

import OfficeSpace from './OfficeSpace';

function App() {

return (

<div className="App">

<OfficeSpace />

</div>

);

}

export default App;

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

1. **Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.** 
   1. **To increment the value**
   2. **Say Hello followed by a static message.**
2. **Create a button “Say Welcome” which invokes the function which takes “welcome” as an argument.**
3. **Create a button which invokes synthetic event “OnPress” which display “I was clicked”**

**Create a “CurrencyConvertor” component which will convert the Indian Rupees to Euro when the Convert button is clicked.**

**Handle the Click event of the button to invoke the handleSubmit event and handle the conversion of the euro to rupees.**

**#1 setup the react environment**

npx create-react-app eventexamplesapp

cd eventexamplesapp

npm start

**#2 modify.js**

// src/App.js

import React, { useState } from 'react';

import CurrencyConvertor from './components/CurrencyConvertor';

function App() {

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

const increment = () => {

setCount(prev => prev + 1);

sayHello();

};

const sayHello = () => {

alert('Hello! This is a static message.');

};

const decrement = () => {

setCount(prev => prev - 1);

};

const sayWelcome = (message) => {

alert(message);

};

const handleSyntheticClick = (e) => {

alert('I was clicked');

};

return (

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

<h1>Event Handling Examples</h1>

<div>

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

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

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

</div>

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

<button onClick={() => sayWelcome('Welcome!')}>Say Welcome</button>

</div>

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

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

</div>

<div style={{ marginTop: '40px' }}>

<CurrencyConvertor />

</div>

</div>

);

}

export default App;

**#3 create concurrency converter**

// src/components/CurrencyConvertor.js

import React, { useState } from 'react';

function CurrencyConvertor() {

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

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

const handleSubmit = (e) => {

e.preventDefault();

const rupeesValue = parseFloat(rupees);

if (!isNaN(rupeesValue)) {

const euroValue = (rupeesValue / 90).toFixed(2); // example conversion rate

setEuro(euroValue);

} else {

alert('Please enter a valid number');

}

};

return (

<div>

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

<form onSubmit={handleSubmit}>

<input

type="number"

placeholder="Enter amount in INR"

value={rupees}

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

/>

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

</form>

{euro !== null && (

<p>Converted Amount: € {euro}</p>

)}

</div>

);

}

export default CurrencyConvertor;

**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.**

**#1 create a React App**

npx create-react-app eventexamplesapp

cd eventexamplesapp

npm start

**#2 App.js**

// src/App.js

import React, { useState } from 'react';

import GuestPage from './components/GuestPage';

import UserPage from './components/UserPage';

import LoginButton from './components/LoginButton';

function App() {

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

const handleLogin = () => setIsLoggedIn(true);

const handleLogout = () => setIsLoggedIn(false);

return (

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

<h1> Ticket Booking App</h1>

<LoginButton

isLoggedIn={isLoggedIn}

handleLogin={handleLogin}

handleLogout={handleLogout}

/>

<hr />

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

</div>

);

}

export default App;

**#3 Guest Page**

// src/components/GuestPage.js

import React from 'react';

function GuestPage() {

return (

<div>

<h2>Available Flights</h2>

<ul>

<li>Flight: AI-203 | From: Delhi | To: Mumbai | Time: 10:00 AM</li>

<li>Flight: AI-404 | From: Chennai | To: Bangalore | Time: 1:00 PM</li>

<li>Flight: AI-555 | From: Kolkata | To: Hyderabad | Time: 5:00 PM</li>

</ul>

<p><strong>Note:</strong> Please log in to book tickets.</p>

</div>

);

}

export default GuestPage;

**#4 Login Button**

// src/components/LoginButton.js

import React from 'react';

function LoginButton({ isLoggedIn, handleLogin, handleLogout }) {

return (

<div>

{isLoggedIn ? (

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

) : (

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

)}

</div>

);

}

export default LoginButton;

**#5 User Page**

// src/components/UserPage.js

import React, { useState } from 'react';

function UserPage() {

const [selectedFlight, setSelectedFlight] = useState('');

const [bookingStatus, setBookingStatus] = useState('');

const handleBooking = () => {

if (selectedFlight) {

setBookingStatus(`Ticket booked successfully for ${selectedFlight}`);

} else {

setBookingStatus('Please select a flight to book.');

}

};

return (

<div>

<h2>Book Your Flight</h2>

<select

value={selectedFlight}

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

>

<option value="">-- Select Flight --</option>

<option value="AI-203">AI-203 | Delhi → Mumbai</option>

<option value="AI-404">AI-404 | Chennai → Bangalore</option>

<option value="AI-555">AI-555 | Kolkata → Hyderabad</option>

</select>

<br /><br />

<button onClick={handleBooking}>Book Ticket</button>

{bookingStatus && <p>{bookingStatus}</p>}

</div>

);

}

export default UserPage;

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

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

**Implement this with as many ways possible of Conditional Rendering**

**#1 create a React App**

npx create-react-app bloggerapp

cd bloggerapp

npm start

**#Bookdetails.js**

// src/components/BookDetails.js

import React from 'react';

const BookDetails = () => (

<div>

<h2> Book Details</h2>

<p>Title: React Essentials</p>

<p>Author: Dan Abramov</p>

<p>Price: ₹499</p>

</div>

);

export default BookDetails;

**#3 BlogDetails.js**

// src/components/BlogDetails.js

import React from 'react';

const BlogDetails = () => (

<div>

<h2> Blog Details</h2>

<p>Title: Understanding React Lifecycle</p>

<p>Author: Sophie Alpert</p>

<p>Date: 06-Aug-2025</p>

</div>

);

export default BlogDetails;

**#4 App.js**

// 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');

const renderWithIfElse = () => {

if (view === 'book') {

return <BookDetails />;

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

return <BlogDetails />;

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

return <CourseDetails />;

} else {

return <p>Please select a section to view.</p>;

}

};

const renderWithSwitchMap = {

book: <BookDetails />,

blog: <BlogDetails />,

course: <CourseDetails />

};

return (

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

<h1> Blogger App</h1>

{/\* Buttons to change views \*/}

<div>

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

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

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

<button onClick={() => setView('none')}>Clear View</button>

</div>

<hr />

<h3> Conditional Rendering: if-else</h3>

{renderWithIfElse()}

<h3> Conditional Rendering: Ternary Operator</h3>

{

view === 'book'

? <BookDetails />

: view === 'blog'

? <BlogDetails />

: view === 'course'

? <CourseDetails />

: <p>Please select a section to view.</p>

}

<h3> Conditional Rendering: Short-circuit (&&)</h3>

{view === 'book' && <BookDetails />}

{view === 'blog' && <BlogDetails />}

{view === 'course' && <CourseDetails />}

<h3> Conditional Rendering: Component Return with Switch-like Mapping</h3>

{renderWithSwitchMap[view] || <p>Please select a section to view.</p>}

</div>

);

}

export default App;