#### WEEK 7

```
import React, { useState } from "react";
const ListofPlayers = () => {
 const players = [
  { name: "Rohit", score: 85 },
  { name: "Virat", score: 65 },
  { name: "Rahul", score: 50 },
  { name: "Hardik", score: 90 },
  { name: "Jadeja", score: 40 },
  { name: "Surya", score: 75 },
  { name: "Gill", score: 95 },
  { name: "Shami", score: 35 },
  { name: "Bumrah", score: 80 },
  { name: "Ishan", score: 55 },
  { name: "Kuldeep", score: 70 }
 ];
 return (
  <div>
   <h2>All Players & Scores</h2>
   <u1>
     {players.map((p, index) => (}
     {p.name} - {p.score}
     ))}
```

```
<h3>Players with score below 70</h3>
             <u1>
                   \{players.filter(p => p.score < 70).map((p, index) => (players.filter(p => p.score <
                      {p.name}
                 ))}
             </div>
   );
};
const IndianPlayers = () => {
    const oddPlayers = ["Rohit", "Rahul", "Hardik", "Surya", "Gill"];
    const evenPlayers = ["Virat", "Jadeja", "Shami", "Bumrah", "Ishan", "Kuldeep"];
    const [first, ...restOdd] = oddPlayers;
    const [second, ...restEven] = evenPlayers;
    const T20players = ["Rohit", "Virat", "Hardik"];
    const RanjiTrophyPlayers = ["Rahul", "Gill", "Jadeja"];
    const mergedPlayers = [...T20players, ...RanjiTrophyPlayers];
    return (
         <div>
             <h2>Odd Team Players</h2>
             Captain: {first}
             Others: {restOdd.join(", ")}
             <h2>Even Team Players</h2>
```

```
Captain: {second}
   Others: {restEven.join(", ")}
   <h2>Merged Players (T20 + Ranji)</h2>
   {mergedPlayers.join(", ")}
  </div>
);
};
const App = () => {
 const [flag, setFlag] = useState(true);
 return (
  <div>
   <h1>Cricket App</h1>
   {flag ? <ListofPlayers /> : <IndianPlayers />}
   <button onClick={() => setFlag(!flag)}>Toggle View</button>
  </div>
);
};
export default App;
OUTPUT:
When flag = true
All Players & Scores:
Rohit - 85
Virat - 65
Rahul - 50
```

Players with score below 70:
Virat
Rahul
Jadeja
Shami
Ishan
When flag = false
Odd Team Players:
Captain: Rohit
Others: Rahul, Hardik, Surya, Gill
Even Team Players:
Captain: Virat
Others: Jadeja, Shami, Bumrah, Ishan, Kuldeep
Merged Players (T20 + Ranji):
Rohit, Virat, Hardik, Rahul, Gill, Jadeja

```
import React from 'react';
const offices = [
  name: "Downtown Hub",
  rent: 45000,
  address: "123 Market Street, City Center",
  image: "https://via.placeholder.com/400x200?text=Downtown+Hub"
 },
  name: "Green Tower",
  rent: 75000,
  address: "456 Green Lane, Uptown",
  image: "https://via.placeholder.com/400x200?text=Green+Tower"
 },
  name: "Ocean View Offices",
  rent: 60000,
  address: "789 Coastal Road, Beachside",
  image: "https://via.placeholder.com/400x200?text=Ocean+View"
];
function App() {
 return (
  <div style={{ fontFamily: 'Arial, sans-serif', padding: '20px' }}>
   <h1>Office Space Rental App</h1>
   \{offices.map((office, index) => (
```

export default App;

## **OUTPUT:**

Office Space Rental App

```
import React, { Component } from 'react';
import './App.css';
import CurrencyConvertor from './CurrencyConvertor';
class App extends Component {
 constructor(props) {
  super(props);
  this.state = {
   count: 0
  };
 }
 // Method to increment the counter and call another function
 handleIncrement = () => {
  this.setState(prevState => ({
   count: prevState.count + 1
  }));
  this.showGreeting();
 };
 // Method to show a greeting message
 showGreeting = () \Rightarrow \{
  console.log("Hello! React event handling example.");
 };
 // Method to decrease the counter
 handleDecrement = () => {
  this.setState(prevState => ({
   count: prevState.count - 1
  }));
 };
 // Method with argument passed
 showMessage = (message) => {
  alert(message);
 };
 // Synthetic event example
 handleSyntheticEvent = (e) \Rightarrow \{
  e.preventDefault(); // using SyntheticEvent
  alert("I was clicked");
 };
 render() {
  return (
   <div className="App">
    <h1>React Event Examples</h1>
    Counter Value: {this.state.count}
```

```
<button onClick={this.handleIncrement}>Increment/button>
    <button onClick={this.handleDecrement}>Decrement/button>
    <br/>br /><br/>
    <button onClick={() => this.showMessage("Welcome")}>Say Welcome</button>
    <br/>br /><br/>
    <button onClick={this.handleSyntheticEvent}>OnPress</button>
    <br/>br /><br/>
    <CurrencyConvertor />
   </div>
 );
export default App;
import React, { Component } from 'react';
class CurrencyConvertor extends Component {
 constructor(props) {
  super(props);
  this.state = {
   rupees: ",
   euros: "
  };
 }
 // Input change handler
 handleInput = (event) => {
  this.setState({
   rupees: event.target.value
  });
 };
```

```
// Submit handler for currency conversion
handleConvert = () => {
 const conversionRate = 90; // Example rate
 const euros = (parseFloat(this.state.rupees) / conversionRate).toFixed(2);
 this.setState({ euros });
};
render() {
 return (
  <div>
   <h2>Currency Convertor</h2>
   <input
    type="number"
    placeholder="Enter INR"
    value={this.state.rupees}
    onChange={this.handleInput}
   />
   <button onClick={this.handleConvert}>Convert</button>
   {this.state.euros && (
    Converted: €{this.state.euros}
   )}
  </div>
 );
```

export default CurrencyConvertor;

# **OUTPUT:**

React Event Examples
Counter Value: 0
[ Increment ] [ Decrement ]
[ Say Welcome ]
[ OnPress ]

Currency Convertor
[ 100 ] [ Convert ]

Converted: €1.11

```
npx create-react-app ticketbookingapp
cd ticketbookingapp
npm start
import React, { Component } from 'react';
import GuestPage from './GuestPage';
import UserPage from './UserPage';
import './App.css';
class App extends Component {
 constructor(props) {
  super(props);
  this.state = {
   isLoggedIn: false
  };
 }
 handleLogin = () \Rightarrow \{
  this.setState({ isLoggedIn: true });
 };
 handleLogout = () => {
  this.setState({ isLoggedIn: false });
 };
 render() {
  const { isLoggedIn } = this.state;
  let pageContent;
  if (isLoggedIn) {
```

```
pageContent = <UserPage />;
  } else {
   pageContent = <GuestPage />;
  }
  return (
   <div className="App">
    <h1>Flight Booking Portal</h1>
    {isLoggedIn?(
     <button onClick={this.handleLogout}>Logout</button>
    ):(
     <button onClick={this.handleLogin}>Login</button>
    )}
    <hr/>
    {pageContent}
   </div>
  );
export default App;
import React from 'react';
function GuestPage() {
 return (
  <div>
   <h2>Welcome, Guest!</h2>
   Here are the available flights:
```

```
<u1>
    Flight 101 - Mumbai to Delhi - 10:00 AM
    Flight 202 - Bangalore to Kolkata - 1:30 PM
    Flight 303 - Chennai to Pune - 6:45 PM
   Login to book your ticket!
  </div>
 );
export default GuestPage;
import React from 'react';
function UserPage() {
 return (
  <div>
   <h2>Welcome, User!</h2>
   Book your flight below:
   <button>Book Flight 101
   <button>Book Flight 202</putton>
   <button>Book Flight 303</button>
  </div>
 );
}
export default UserPage;
.App {
 text-align: center;
 margin-top: 40px;
 font-family: Arial, sans-serif;
```

```
}
button {
 padding: 10px 20px;
 margin: 10px;
 font-size: 16px;
Output
Initial View (Guest):
Flight Booking Portal
[Login]
Welcome, Guest!
Here are the available flights:
- Flight 101...
- Flight 202...
Login to book your ticket!
After Login (User):
Flight Booking Portal
[Logout]
Welcome, User!
Book your flight below:
[Book Flight 101] [Book Flight 202]
```

```
npx create-react-app bloggerapp
cd bloggerapp
npm start
import React from 'react';
function BookDetails({ books }) {
 return (
  <div>
   <h2>Book Details</h2>
   \{books.length === 0 ? (
    No books available.
   ):(
    <u1>
      \{books.map((book) => (
      key={book.id}>
        <strong>{book.title}</strong> by {book.author}
      ))}
    )}
  </div>
 );
export default BookDetails;
import React from 'react';
function BlogDetails({ blogs }) {
 return (
  <div>
   <h2>Blog Posts</h2>
   \{blogs.length > 0 ? (
    blogs.map((blog) => (
     <div key={blog.id}>
      <h4>\{blog.title\}</h4>
      {blog.content}
     </div>
    ))
   ):(
    No blog posts found.
   )}
  </div>
 );
export default BlogDetails;
import React from 'react';
```

```
function CourseDetails({ courses }) {
 return (
  <div>
   <h2>Course List</h2>
    \{\text{courses.length} > 0 ? (
    <u1>
      {courses.map((course) => (
       key={course.id}>
        {course.name} - {course.duration}
       ))}
    ):(
     No courses found.
   )}
  </div>
 );
}
export default CourseDetails;
import React, { Component } from 'react';
import BookDetails from './components/BookDetails';
import BlogDetails from './components/BlogDetails';
import CourseDetails from './components/CourseDetails';
import './App.css';
class App extends Component {
 constructor(props) {
  super(props);
  this.state = {
   showBooks: true,
   showBlogs: false,
   showCourses: false,
   books: [
     { id: 1, title: "React Explained", author: "Dan Abramov" },
     { id: 2, title: "Learning JavaScript", author: "Kyle Simpson" }
   ],
   blogs: [
     { id: 1, title: "Understanding React", content: "React makes UI development easier..." },
     { id: 2, title: "JavaScript ES6", content: "Learn about let, const, arrow functions..." }
   ],
   courses: [
     { id: 1, name: "React Fundamentals", duration: "3 weeks" },
     { id: 2, name: "Advanced JavaScript", duration: "4 weeks" }
  };
 render() {
  const { showBooks, showBlogs, showCourses, books, blogs, courses } = this.state;
```

```
// Conditional rendering using element variable
  let section = null;
  if (showBooks) {
   section = <BookDetails books={books} />;
  } else if (showBlogs) {
   section = <BlogDetails blogs={blogs} />;
  } else if (showCourses) {
   section = <CourseDetails courses={courses} />;
  return (
   <div className="App">
    <h1>Blogger App</h1>
    <div className="btn-group">
     <button onClick={() => this.setState({ showBooks: true, showBlogs: false,
showCourses: false })}>
       Show Books
     </button>
     <button onClick={() => this.setState({ showBooks: false, showBlogs: true,
showCourses: false \})\>
       Show Blogs
     </button>
     <button onClick={() => this.setState({ showBooks: false, showBlogs: false,
showCourses: true })}>
       Show Courses
     </button>
    </div>
    <hr/>
    {section}
   </div>
  );
export default App;
OUTPUT:
Blogger App
[Show Books] [Show Blogs] [Show Courses]
--- Book Details ---
- React Explained by Dan Abramov
- Learning JavaScript by Kyle Simpson
When "Show Blogs" is clicked:
--- Blog Posts ---
```

Understanding React React makes UI development easier...

JavaScript ES6 Learn about let, const, arrow functions... When "Show Courses" is clicked:

--- Course List ---React Fundamentals - 3 weeks Advanced JavaScript - 4 weeks