## **REACT**

# <u>WEEK - 7</u>

## Handson - 9

In this hands-on lab, you will learn how to:

- Use map() method of ES6
- Apply arrow functions of ES6
- Implement Destructuring features of ES6

```
const lowScorers = players filter player => player score < 70</pre>
 return
   <div>
    <h2> </h2>
    <l
     {players map player index =>
       {player name} {player score}
       }
    <h2>
                          </h2>
    <l
     {lowScorers map player index =>
       {player name} {player score}
       }
    </div>
export default ListofPlayers
import React from "react"
```

const IndianPlayers = =>

```
const allPlayers = "Virat" "Rohit" "Rahul" "Pant" "Bumrah" "Shami"
const oddPlayers = allPlayers filter _ index => index % 2 !== 0
const evenPlayers = allPlayers filter _ index => index % 2 === 0
const t20player1 t20player2 = "Surya" "Hardik"
const ranjiPlayer1 ranjiPlayer2 = "Pujara" "Rahane"
const mergedPlayers = ... t20player1 t20player2 ... ranjiPlayer1 ranjiPlayer2
return
  <div>
   <h2>
                      </h2>
   <l
    {oddPlayers map p i \Rightarrow key={i}>{p}}
   <h2>
                      </h2>
    <l
    {evenPlayers map p i \Rightarrow \langle li key=\{i\} \rangle \{p\} \langle /li \rangle }
   </h2>
   <h2>
   <l
    {mergedPlayers map p i \Rightarrow key={i}>{p}}
   </div>
```

```
export default IndianPlayers
```

```
import logo from './logo.svg'
import './App.css'
import React from "react"
import ListofPlayers from "./components/ListofPlayers"
import IndianPlayers from "./components/IndianPlayers"
function App
 const flag = true // Toggle between true or false
 return
   <div className="App">
     <h1>
                                </h1>
     {flag ? <ListofPlayers /> : <IndianPlayers />}
    </div>
export default App
```

Flag = true:

# **Welcome to Cricket App**

## **All Players**

Virat - 95

Rohit - 88 Rahul - 45 Pant - 77

Bumrah - 65 Shami - 90

Ashwin - 58

Dhawan - 73 Siraj - 69

Hardik - 82

Kuldeep - 66

Players scoring below 70

Rahul - 45 Bumrah - 65

Ashwin - 58 Siraj - 69

Kuldeep - 66

When flag = false:

## Welcome to Cricket App

## **Odd Team Players**

Rohit
Pant
Shami

### **Even Team Players**

Virat Rahul Bumrah

## Merged T20 + Ranji Trophy Players

Surya Hardik Pujara Rahane

#### Handson - 10

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.

```
import logo from './logo.svg'
import React from 'react'
```

```
import './App.css'
function App
 const mainOffice =
   name: "Cozy Coworking Hub"
   rent: 55000
   address: "123 Business Bay, Chennai"
 const officeList =
     name: "Urban Workloft" rent: 45000 address: "MG Road, Bengaluru"
     name: "Sky Tower Office" rent: 78000 address: "Connaught Place, Delhi"
     name: "GreenSpace Rentals" rent: 62000 address: "T. Nagar, Chennai"
     name: "BudgetBase Offices" rent: 38000 address: "Camp Road, Pune"
 return
   <div className="App">
     <h1>
                                </h1>
     <img src="image.jpg" alt="Office Space" width="600" height="300" />
     <h2>
                            </h2>
     <strong> </strong> {mainOffice name}
     <strong> </strong>
       <span style={ color: mainOffice rent > 60000 ? 'green' : 'red' }>
          {mainOffice rent}
```

```
</span>
    <strong> </strong> {mainOffice address}
    <h2>
                      </h2>
    <l
     {officeList map office index =>
       <strong> </strong> {office name}
        <strong> </strong>
         <span style={ color: office rent > 60000 ? 'green' : 'red' }>
           {office rent}
        </span>
        <strong> </strong> {office address}
      }
    </div>
export default App
```

```
height 40vmin
  pointer-events none
@media
  .App-logo
                          infinite 20s linear
.App-header
 background-color #282c34
 min-height 100vh
 display flex
  flex-direction column
  align-items center
  justify-content center
  font-size calc 10px + 2vmin
  color white
.App-link
 color #61dafb
@keyframes App-logo-spin
```

transform rotate 0deg

```
transform rotate 360deg
```

```
.App

padding 20px

font-family 'Segoe UI' sans-serif

h1

color #333

img

border-radius 10px

margin-bottom 20px
```

## OUTPUT:

# Office Space Rental App



#### **Main Office Details**

Name: Cozy Coworking Hub

Rent:₹55000

Address: 123 Business Bay, Chennai

#### Other Available Offices

· Name: Urban Workloft

Rent:₹45000

Address: MG Road, Bengaluru

Name: Sky Tower Office

Rent:₹78000

Address: Connaught Place, Delhi

Name: GreenSpace Rentals

Rent:₹62000

Address: T. Nagar, Chennai

Name: BudgetBase Offices

Rent:₹38000

Address: Camp Road, Pune

In this hands-on lab, you will learn how to:

- Implement Event handling concept in React applications
- Use this keyword
- Use synthetic event

```
import logo from './logo.svg'
import './App.css'
import React useState from 'react'
import CurrencyConverter from './CurrencyConverter'
function App
 const count setCount = useState 0
 const handleIncrement = =>
 const increment = =>
   setCount prev => prev + 1
 const sayHello = =>
   console log "Hello! This is your static message"
 const decrement = =>
   setCount prev => prev - 1
```

```
const sayMessage = message =>
 alert `You said: ${message}`
const handleSynthetic = event =>
 console log "I was clicked!"
return
 <div className="App" style={ padding: "20px" fontFamily: "Arial" }>
  <h1>
                  </h1>
  <h2> {count}</h2>
  <button onClick={handleIncrement}> </putton>
  <br /><br />
  <br /><br />
  <button onClick={handleSynthetic}>
                                           </button>
  <br /><br />
  <CurrencyConverter />
```

```
</div>
```

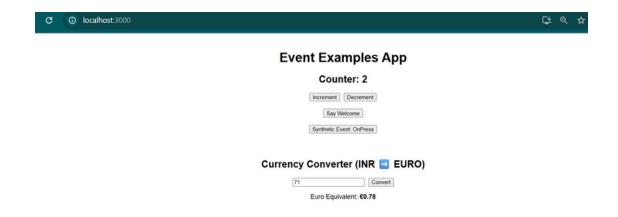
export default App

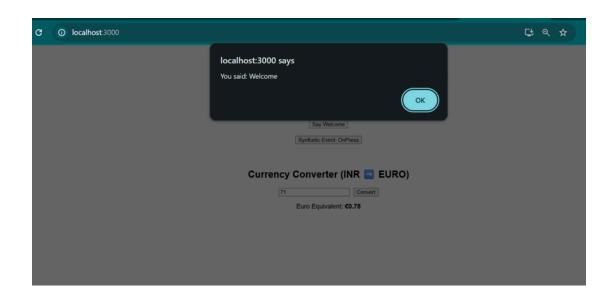
```
import React useState from 'react'
const CurrencyConverter = =>
 const rupees setRupees = useState ''
 const euro setEuro = useState null
 const conversionRate = 0.011
 const handleSubmit = e =>
   e preventDefault
   const inr = parseFloat rupees
   if !isNaN inr
     setEuro inr * conversionRate toFixed 2
     else
     setEuro null
     alert "Please enter a valid number!"
```

```
<div style={ marginTop: "40px" }>
 <h2>
                      →
                          </h2>
 <form onSubmit={handleSubmit}>
  <input
    type="number"
    placeholder="Enter INR"
    value={rupees}
    onChange={ e => setRupees e target value }
  />
  </form>
 {euro !== null &&
  >
                 <strong> {euro}</strong>
  }
</div>
```

export default CurrencyConverter

#### **OUTPUT**





#### Handson - 12

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.

```
const GuestPage = =>
 const flights =
     id: 1 from: "Chennai" to: "Delhi" price: 5000
     id: 2 from: "Mumbai" to: "Bangalore" price: 3500
     id: 3 from: "Kolkata" to: "Hyderabad" price: 4000
 return
   <div>
     <h2>
                               </h2>
     <l
      {flights map flight =>
      key={flight id}>
         {flight from} ▶ {flight to} {flight price}
       }
     <em>
                                 </em>
   </div>
```

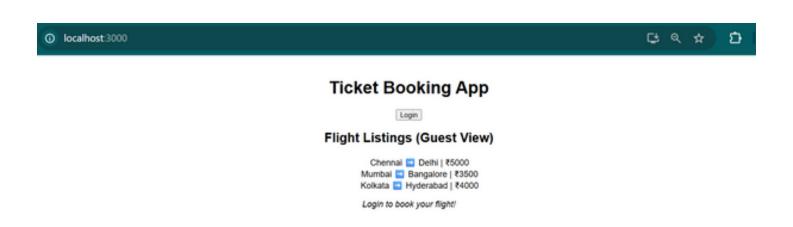
```
import React from 'react'
const GuestPage = =>
 const flights =
     id: 1 from: "Chennai" to: "Delhi" price: 5000
     id: 2 from: "Mumbai" to: "Bangalore" price: 3500
     id: 3 from: "Kolkata" to: "Hyderabad" price: 4000
 return
   <div>
     <h2>
                                 </h2>
     <l
      {flights map flight =>
        key={flight id}>
         {flight from} ▶ {flight to} {flight price}
        }
     </em>
     <em>
   </div>
export default GuestPage
```

import logo from './logo.svg'

```
import './App.css'
// src/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 handleLogin = => setIsLoggedIn true
 const handleLogout = => setIsLoggedIn false
 return
   <div className="App" style={ padding: "20px" fontFamily: "Arial" }>
     <h1>
                          </h1>
     {isLoggedIn ?
       <>
         <button onClick={handleLogout}> 
         <UserPage />
       </>
       <>
         <button onClick={handleLogin}> </putton>
         <GuestPage />
       </>
      }
```

```
</div>
```

export default App



## Handson - 13

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.

```
const BookDetails = =>
 <div>
      </h2>
  <h2>
  >
                       >
                >
              </div>
export default BookDetails
import React from 'react'
const BlogDetails = =>
 <div>
  <h2>
      </h2>
                    >
              >
                  >
```

export default BlogDetails

</div>

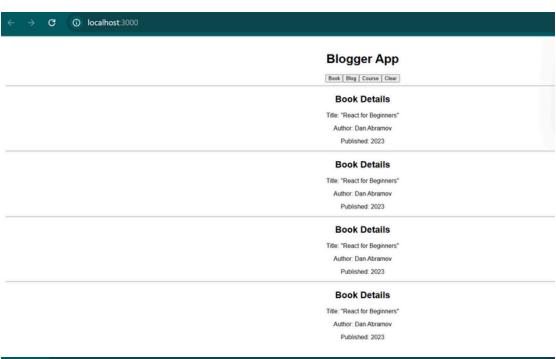
```
import React from 'react'
const CourseDetails = =>
 <div>
   <h2>
                   </h2>
   >
                                      >
                   >
                       </div>
export default CourseDetails
import logo from './logo.svg'
import './App.css'
import React useState from 'react'
import BookDetails from './Components/BookDetails'
import BlogDetails from './Components/BlogDetails'
import CourseDetails from './Components/CourseDetails'
function App
 const selected setSelected = useState 'book'
 // Switch Case Rendering
 const renderUsingSwitch = =>
```

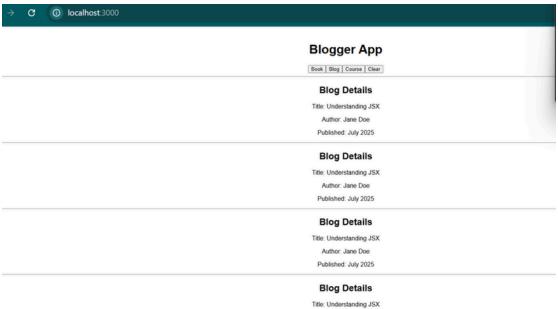
```
switch selected
   case 'book'
    return <BookDetails />
   case 'blog'
    return <BlogDetails />
   case 'course'
    return <CourseDetails />
   default
                                          return 
return
 <div className="App" style={ padding: '20px' fontFamily: 'Arial' }>
   <h1> </h1>
   <div>
     <button onClick={ => setSelected 'book' }> </button>
     <button onClick={ => setSelected 'blog' }> </button>
     <button onClick={ => setSelected 'course' }> </button>
     <button onClick={ => setSelected 'none' }> </button>
   </div>
   <hr />
   {/* 1. If-Else Conditional */}
   { =>
    if selected === 'book'
```

```
return <BookDetails />
   else if selected === 'blog'
   return <BlogDetails />
   else if selected === 'course'
   return <CourseDetails />
   else
   return 
                                                        <hr />
{/* 2. Ternary Operator */}
{selected === 'book' ?
 <BookDetails />
 : selected === 'blog' ?
 <BlogDetails />
 : selected === 'course' ?
 <CourseDetails />
                                    >
 }
<hr />
{/* 3. Logical AND (&&) */}
{selected === 'book' && <BookDetails />}
{selected === 'blog' && <BlogDetails />}
```

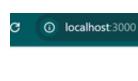
export default App

#### **OUTPUT**:





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## **Blogger App**

Book Blog Course Clear

#### **Course Details**

Course: Full Stack Web Development

Platform: Udemy

Duration: 40 Hours

#### **Course Details**

Course: Full Stack Web Development

Platform: Udemy Duration: 40 Hours

#### **Course Details**

Course: Full Stack Web Development

Platform: Udemy Duration: 40 Hours

#### Course Details

Course: Full Stack Web Development

Platform: Udemy Duration: 40 Hours



# Blogger App

Book Blog Course Clear

Click one of the buttons to display content.

No section selected via ternary.

No section selected via && logic.

Please select an option above.