**9.REACTJS\_HOL**

## **Objectives**

* List the features of ES6
* Explain JavaScript let
* Identify the differences between var and let
* Explain JavaScript const
* Explain ES6 class fundamentals
* Explain ES6 class inheritance
* Define ES6 arrow functions
* Identify set(), map()

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

## **Prerequisites**

The following is required to complete this hands-on lab:

* Node.js
* NPM
* Visual Studio Code

## **Notes**

Estimated time to complete this lab: **60 minutes.**

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

Code:

import React from 'react';

import ListofPlayers from './ListofPlayers';

import Scorebelow70 from './Scorebelow70';

import { OddPlayers } from './OddPlayers';

import { EvenPlayers } from './EvenPlayers';

import ListofIndianPlayers from './ListofIndianPlayers';

function App() {

  var flag = true;

  const players = [

    { name: "Jack", score: 50 },

    { name: "Michael", score: 70 },

    { name: "John", score: 40 },

    { name: "Ann", score: 61 },

    { name: "Elisabeth", score: 61 },

    { name: "Sachin", score: 95 },

    { name: "Dhoni", score: 100 },

    { name: "Virat", score: 84 },

    { name: "Jadeja", score: 64 },

    { name: "Raina", score: 75 },

    { name: "Rohit", score: 80 },

  ];

  const IndianTeam = ["Sachin1", "Dhoni2", "Virat3", "Rohit4", "Yuvraj5", "Raina6"];

  const T20Players = ["First Player", "Second Player", "Third Player"];

  const RanjiTrophyPlayers = ["Fourth Player", "Fifth Player", "Sixth Player"];

  const IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];

  if (flag === true) {

    return (

      <div>

        <h1>List of Players</h1>

        <ListofPlayers players={players} />

        <hr />

        <h2>List of Players having Scores Less than 70</h2>

        <Scorebelow70 players={players} />

      </div>

    );

  } else {

    return (

      <div>

        <div>

          <h1>Indian Team</h1>

          <h2>Odd Players</h2>

          {OddPlayers(IndianTeam)}

          <hr />

          <h2>Even Players</h2>

          {EvenPlayers(IndianTeam)}

        </div>

        <hr />

        <div>

          <h1>List of Indian Players Merged:</h1>

          <ListofIndianPlayers IndianPlayers={IndianPlayers} />

        </div>

      </div>

    );

  }

}

export default App;

import React from 'react';

function ListofPlayers({ players }) {

  return (

    <div>

      <h1>List of Players</h1>

      {players.map((item, index) => (

        <li key={index}>Mr. {item.name} {item.score}</li>

      ))}

    </div>

  );

}

export default ListofPlayers;

import React from 'react';

function Scorebelow70({ players }) {

  const below70 = [];

  players.map((item) => {

    if (item.score <= 70) {

      below70.push(item);

    }

  });

  return (

    <div>

      <h2>List of Players having Scores Less than 70</h2>

      <ul>

        {below70.map((item, index) => (

          <li key={index}>Mr. {item.name} {item.score}</li>

        ))}

      </ul>

    </div>

  );

}

export default Scorebelow70;

import React from 'react';

export function OddPlayers([first, , third, , fifth]) {

  return (

    <div>

      <h2>Odd Players</h2>

      <li>First : {first}</li>

      <li>Third : {third}</li>

      <li>Fifth : {fifth}</li>

    </div>

  );

}

import React from 'react';

export function EvenPlayers([ , second, , fourth, , sixth]) {

  return (

    <div>

      <h2>Even Players</h2>

      <li>Second : {second}</li>

      <li>Fourth : {fourth}</li>

      <li>Sixth : {sixth}</li>

    </div>

  );

}

import React from 'react';

function ListofIndianPlayers({ IndianPlayers }) {

  return (

    <div>

      <h2>List of Indian Players Merged:</h2>

      <ul>

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

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

        ))}

      </ul>

    </div>

  );

}

export default ListofIndianPlayers;

