**WEEK – 7 Assignments**

**React**

**Mandatory hands-on :-**

**9. ReactJS-HOL :**

**Objective :**

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

**Code :**

[**App.js**](http://app.js) **:**

| **import React, { useState } from "react"; import { players } from "./players"; import ListofPlayers from "./ListofPlayers"; import ScoreBelow70 from "./ScoreBelow70";  import { IndianTeam, IndianPlayers } from "./IndianTeam"; import { OddPlayers, EvenPlayers } from "./IndianPlayers"; import ListOfIndianPlayers from "./ListOfIndianPlayers";  function App() {  // flag toggles the view  const [flag, setFlag] = useState(true);   return (  <div style={{ padding: "20px" }}>  <button onClick={() => setFlag(!flag)}>Toggle View</button>  {flag ? (  <>  <h1>List of Players</h1>  <ListofPlayers players={players} />  <h1>List of Players having Scores Less than 70</h1>  <ScoreBelow70 players={players} />  </>  ) : (  <>  <h1>Indian Team</h1>  <h2>Odd Players</h2>  <ul>{OddPlayers(IndianTeam)}</ul>  <h2>Even Players</h2>  <ul>{EvenPlayers(IndianTeam)}</ul>  <h2>List of Indian Players Merged:</h2>  <ListOfIndianPlayers players={IndianPlayers} />  </>  )}  </div>  ); } export default App;** |
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[**players.js**](http://players.js) **:**

| **export 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: 92 },  { name: "Virat", score: 84 },  { name: "Jadeja", score: 64 },  { name: "Raina", score: 75 },  { name: "Rohit", score: 80 }, ];** |
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[**IndianTeam.js**](http://indianteam.js) **:**

| **export const IndianTeam = [  "Sachin1",  "Dhoni2",  "Virat3",  "Rohit4",  "Yuvraj5",  "Raina6", ];  export const T20Players = ["First Player", "Second Player", "Third Player"]; export const RanjiTrophyPlayers = [  "Fourth Player",  "Fifth Player",  "Sixth Player", ]; export const IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];** |
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**ListOfPlayers.jsk :**

| **import React from "react";  function ListofPlayers({ players }) {  return (  <ul>  {players.map((item, idx) => (  <li key={idx}>  Mr. {item.name} <span>{item.score}</span>  </li>  ))}  </ul>  ); } export default ListofPlayers;** |
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**ScoreBelow70.jsk**

| import React from "react";  function ScoreBelow70({ players }) {  const below70 = players.filter((p) => p.score < 70); // Arrow function!  return (  <**ul**>  {below70.map((item, idx) => (  <**li** key={idx}>  {item.name} {item.score}  </**li**>  ))}  </**ul**>  ); } export default ScoreBelow70; |
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**IndianPlayers.jsk**

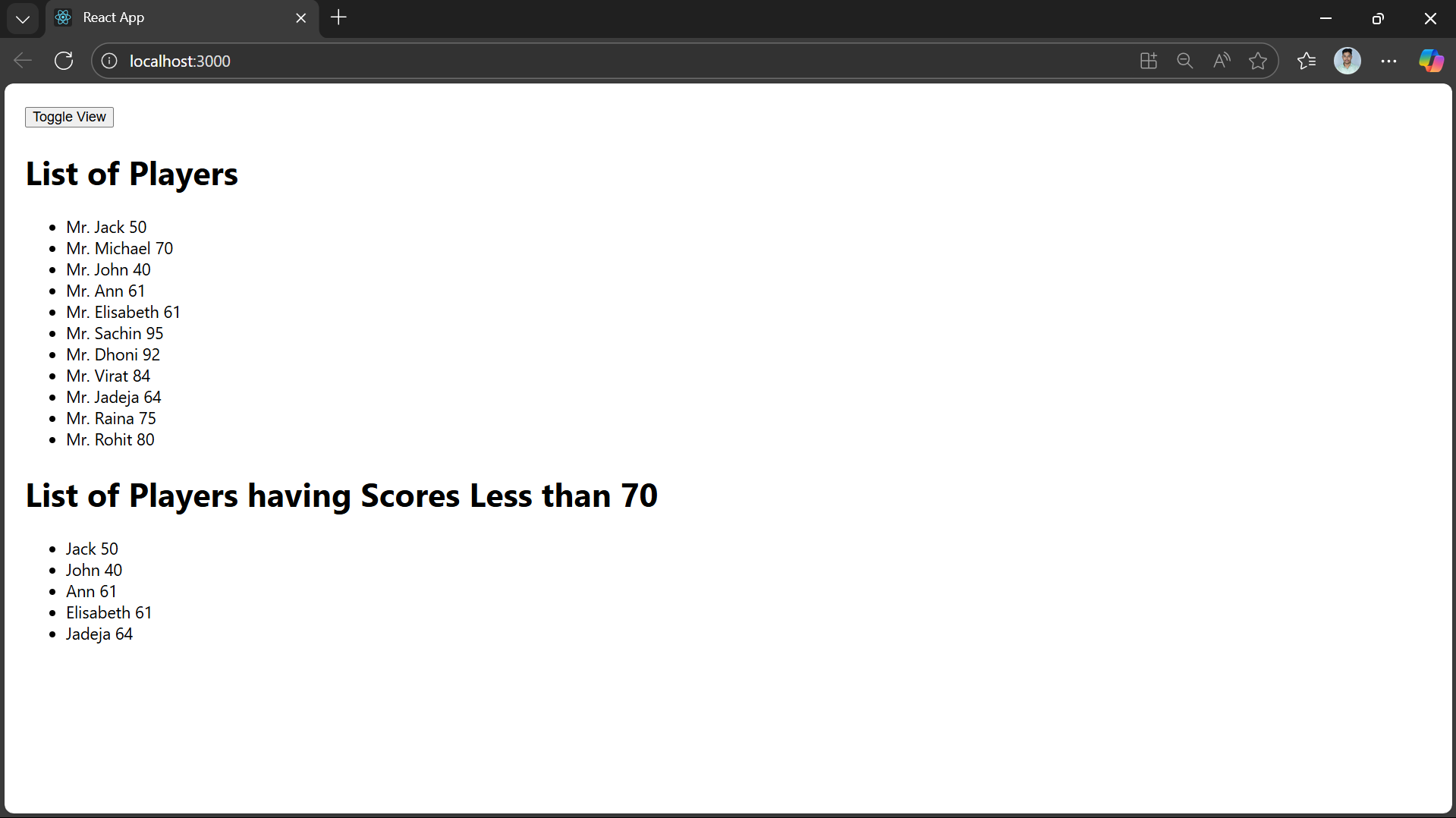
| import React from "react";  // Odd positions: first, third, fifth export function OddPlayers([first, , third, , fifth]) {  return (  <>  <**li**>First: {first}</**li**>  <**li**>Third: {third}</**li**>  <**li**>Fifth: {fifth}</**li**>  </>  ); }  // Even positions: second, fourth, sixth export function EvenPlayers([, second, , fourth, , sixth]) {  return (  <>  <**li**>Second: {second}</**li**>  <**li**>Fourth: {fourth}</**li**>  <**li**>Sixth: {sixth}</**li**>  </>  ); } |
| --- |

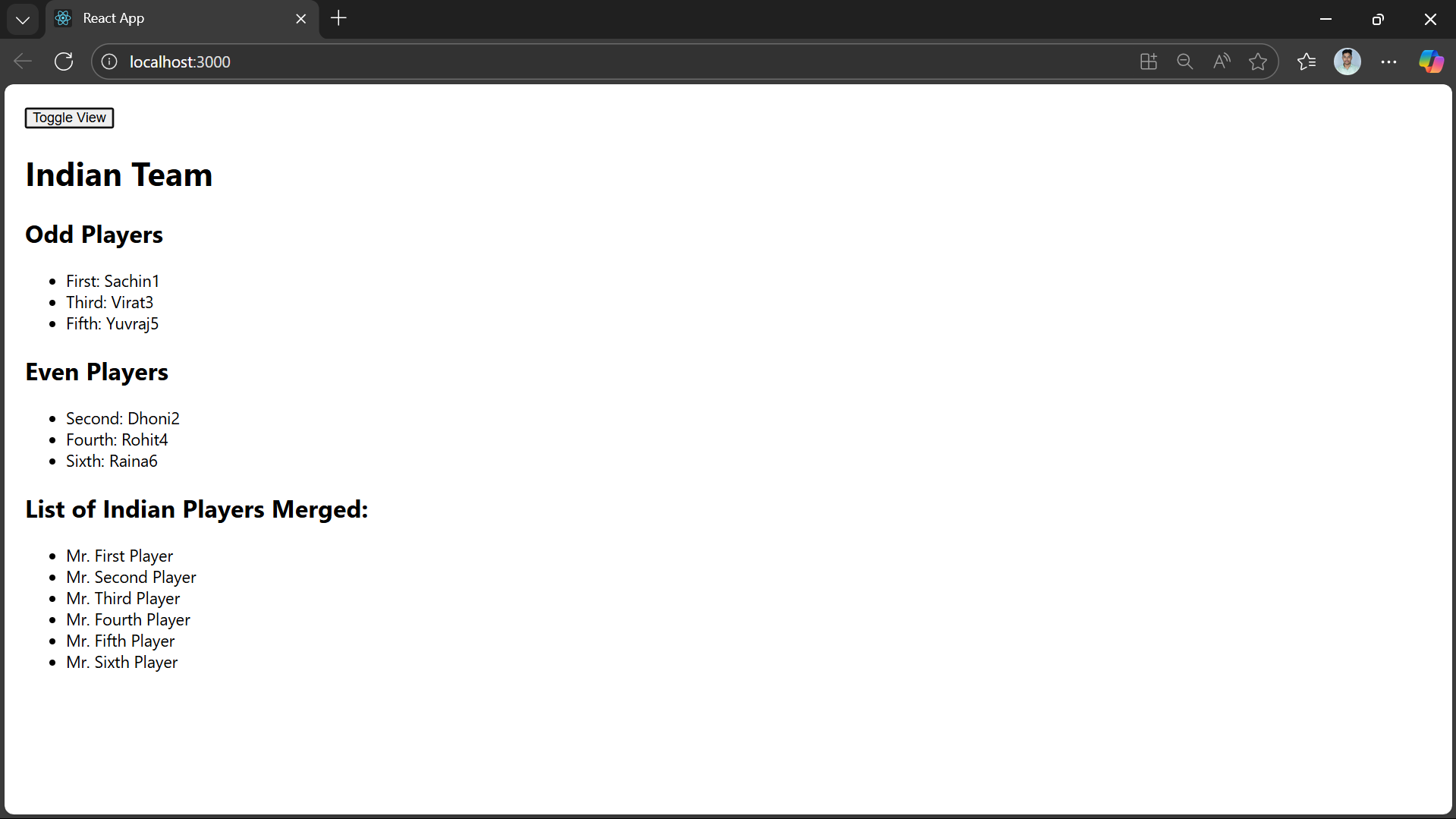
**ListOfIndianPlayers.jsk**

| import React from "react";  function ListOfIndianPlayers({ players }) {  return (  <**ul**>  {players.map((name, idx) => (  <**li** key={idx}>Mr. {name}</**li**>  ))}  </**ul**>  ); } export default ListOfIndianPlayers; |
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**OUTPUT :**

**Localhost:3000 :**

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