ReactJS Hands-On Lab Report: cricketapp

# 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()

# Lab Outcomes

In this hands-on lab, we learned how to:  
- Use map() method of ES6  
- Apply arrow functions of ES6  
- Implement Destructuring features of ES6

# Prerequisites

To complete this hands-on lab, the following are required:  
- Node.js  
- NPM  
- Visual Studio Code

# Step-by-Step Implementation

## 1. Create React App

Use the following command in terminal:  
npx create-react-app cricketapp  
cd cricketapp  
code .

## 2. Create Component: ListofPlayers.js

import React from 'react';  
  
const ListofPlayers = () => {  
 const players = [  
 { name: "Virat Kohli", score: 85 },  
 { name: "Rohit Sharma", score: 60 },  
 { name: "KL Rahul", score: 75 },  
 { name: "Shubman Gill", score: 50 },  
 { name: "MS Dhoni", score: 90 },  
 { name: "Hardik Pandya", score: 40 },  
 { name: "Ravindra Jadeja", score: 72 },  
 { name: "Jasprit Bumrah", score: 30 },  
 { name: "R Ashwin", score: 70 },  
 { name: "Shreyas Iyer", score: 68 },  
 { name: "Mohammed Siraj", score: 55 }  
 ];  
  
 const below70 = 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>  
 {below70.map((player, index) => (  
 <li key={index}>{player.name} - {player.score}</li>  
 ))}  
 </ul>  
 </div>  
 );  
};  
  
export default ListofPlayers;

## 3. Create Component: IndianPlayers.js

import React from 'react';  
  
const IndianPlayers = () => {  
 const T20players = ["Virat", "Rohit", "Hardik", "Gill", "Pant"];  
 const RanjiTrophyPlayers = ["Pujara", "Rahane", "Iyer", "Ishant", "Shaw"];  
  
 const allPlayers = [...T20players, ...RanjiTrophyPlayers];  
  
 const oddPlayers = allPlayers.filter((\_, index) => index % 2 === 0);  
 const evenPlayers = allPlayers.filter((\_, index) => index % 2 !== 0);  
  
 return (  
 <div>  
 <h2>Odd Team Players</h2>  
 <ul>  
 {oddPlayers.map((player, index) => (  
 <li key={index}>{player}</li>  
 ))}  
 </ul>  
  
 <h2>Even Team Players</h2>  
 <ul>  
 {evenPlayers.map((player, index) => (  
 <li key={index}>{player}</li>  
 ))}  
 </ul>  
 </div>  
 );  
};  
  
export default IndianPlayers;

## 4. Modify App.js

import React from 'react';  
import ListofPlayers from './ListofPlayers';  
import IndianPlayers from './IndianPlayers';  
  
function App() {  
 const flag = true; // Change to false to view other component  
  
 return (  
 <div className="App">  
 <h1>🏏 Cricket App</h1>  
 {flag ? <ListofPlayers /> : <IndianPlayers />}  
 </div>  
 );  
}  
  
export default App;

## 5. Run the App

Use the following command to start the application:  
npm start  
  
The app will open in browser at: http://localhost:3000  




