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

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* Filter the players with scores below 70 using arrow functions of ES6.

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1. IndianPlayers
   1. Display the Odd Team Player and Even Team players using the Destructuring features of ES6

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* 1. Declare two arrays T20players and RanjiTrophy players and merge the two arrays and display them using the Merge feature of ES6

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Display these two components in the same home page using a simple if else in the flag variable.

**Output:**

When Flag=true

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When Flag=false

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**Solution**

Step 1 : React app create and start in VS code

npx create-react-app cricketapp

cd cricketapp

code .

npm start

Step 2 : App.js in src folder

import React, { useState } from "react";

import ListofPlayers from "./components/ListofPlayers";

import IndianPlayers from "./components/IndianPlayers";

export default function App() {

  const [flag, setFlag] = useState(true); // ES6: const + arrow usage in components

  return (

    <div style={{ padding: 20, fontFamily: "Arial, sans-serif" }}>

      <h1>Cricket App (cricketapp)</h1>

      <button onClick={() => setFlag(!flag)} style={{ marginBottom: 12 }}>

        Toggle Flag (current: {flag.toString()})

      </button>

      {flag ? (

        // When flag = true (show ListofPlayers)

        <div>

          <h2>Flag = true</h2>

          <ListofPlayers />

        </div>

      ) : (

        // When flag = false (show IndianPlayers)

        <div>

          <h2>Flag = false</h2>

          <IndianPlayers />

        </div>

      )}

    </div>

  );

}

Step 3 : Components folder created in src

Step 4 : ListofPlayers.js created in Components folder

import React from "react";

/\*

  - Use const for arrays/objects we don't reassign.

  - Use map() to render list, filter() + arrow fn to get scores < 70.

\*/

const players = [

  { id: 1, name: "Virat Kohli", score: 95 },

  { id: 2, name: "Rohit Sharma", score: 82 },

  { id: 3, name: "Shreyas Iyer", score: 68 },

  { id: 4, name: "KL Rahul", score: 55 },

  { id: 5, name: "Jasprit Bumrah", score: 30 },

  { id: 6, name: "Rishabh Pant", score: 72 },

  { id: 7, name: "Shikhar Dhawan", score: 45 },

  { id: 8, name: "Hardik Pandya", score: 12 },

  { id: 9, name: "Ravindra Jadeja", score: 88 },

  { id: 10, name: "Yuzvendra Chahal", score: 17 },

  { id: 11, name: "Ishan Kishan", score: 69 }

];

// Subcomponent to display players with score < 70

function ScoreBelow70({ players }) {

  const below70 = players.filter(p => p.score < 70); // arrow function + filter

  return (

    <div>

      <h3>Players with Scores less than 70</h3>

      <ul>

        {below70.map(p => (

          <li key={p.id}>

            {p.name} — {p.score}

          </li>

        ))}

      </ul>

    </div>

  );

}

export default function ListofPlayers() {

  return (

    <div>

      <h2>List of Players (All)</h2>

      <ul>

        {players.map(p => (

          <li key={p.id}>

            {p.name} — {p.score}

          </li>

        ))}

      </ul>

      <hr />

      <ScoreBelow70 players={players} />

    </div>

  );

}

Step 5 : IndianPlayers.js created in components folder

import React from "react";

/\*

  - Demonstrate destructuring (split odd/even indices),

    merge two arrays (spread operator), and show lists.

\*/

const IndianTeam = [

  "Rohit Sharma",

  "Shikhar Dhawan",

  "Virat Kohli",

  "Shreyas Iyer",

  "KL Rahul",

  "Rishabh Pant",

  "Hardik Pandya",

  "Jasprit Bumrah",

  "Ravindra Jadeja",

  "Yuzvendra Chahal",

  "Ishan Kishan"

];

export default function IndianPlayers() {

  // Destructuring example: create odd and even lists using filter,

  // then assign both using array destructuring:

  const [oddPlayers, evenPlayers] = [

    IndianTeam.filter((\_, i) => i % 2 === 0), // indices 0,2,4... (considered "odd team" per lab image)

    IndianTeam.filter((\_, i) => i % 2 === 1)  // indices 1,3,5...

  ];

  // Example of simple destructuring to get first two players:

  const [captain, viceCaptain, ...rest] = IndianTeam;

  // Merge arrays using spread (ES6): T20players + RanjiTrophy

  const T20players = ["Player A (T20)", "Player B (T20)"];

  const RanjiPlayers = ["Player C (Ranji)", "Player D (Ranji)"];

  const mergedIndianPlayers = [...T20players, ...RanjiPlayers];

  return (

    <div>

      <h3>Indian Team (Destructured results)</h3>

      <p>

        <strong>Captain:</strong> {captain} <br />

        <strong>Vicecaptain:</strong> {viceCaptain}

      </p>

      <h4>Odd Team Players (by index)</h4>

      <ul>

        {oddPlayers.map((p, idx) => (

          <li key={idx}>{p}</li>

        ))}

      </ul>

      <h4>Even Team Players (by index)</h4>

      <ul>

        {evenPlayers.map((p, idx) => (

          <li key={idx}>{p}</li>

        ))}

      </ul>

      <hr />

      <h4>Merged Players (T20players + RanjiPlayers)</h4>

      <ul>

        {mergedIndianPlayers.map((p, idx) => (

          <li key={idx}>{p}</li>

        ))}

      </ul>

    </div>

  );

}

Step 7: Run app

npm.start

**Output**

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