

9.ReactJS-Handson

Initializing and creating npm-app

```
PS C:\Users\KIIT> npm install -g create-react-app
npm warn deprecated fstream-ignore@1.0.5: This package is no longer supported.
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a
good and tested way
to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated uid-number@0.0.6: This package is no longer supported.
npm warn deprecated rimraf@2.7.1: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated fstream@1.0.12: This package is no longer supported.
npm warn deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgrade asap
.

changed 64 packages in 17s

4 packages are looking for funding
  run 'npm fund' for details
npm notice
npm notice New minor version of npm available! 11.4.2 -> 11.5.1
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.5.1
npm notice To update run: npm install -g npm@11.5.1
npm notice
```

```
PS C:\Users\KIIT> npx create-react-app cricketapp
create-react-app is deprecated.

You can find a list of up-to-date React frameworks on react.dev
For more info see: https://react.dev/link/cra

This error message will only be shown once per install.

Creating a new React app in C:\Users\KIIT\cricketapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1324 packages in 2m

269 packages are looking for funding
  run 'npm fund' for details

Initialized a git repository.

Installing template dependencies using npm...

added 17 packages, and changed 1 package in 18s

269 packages are looking for funding
  run 'npm fund' for details
Removing template package using npm...

removed 1 package, and audited 1341 packages in 7s

269 packages are looking for funding
  run 'npm fund' for details

9 vulnerabilities (3 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.

Created git commit.

Success! Created cricketapp at C:\Users\KIIT\cricketapp
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd cricketapp
  npm start

Happy hacking!
PS C:\Users\KIIT> cd cricketapp
PS C:\Users\KIIT\cricketapp> code .
```

Code in src/Components/ListOfPlayers.js

```
src > Components > JS ListOfPlayers.js > ...
1  import React from "react";
2
3  const players = [
4    { name: "Virat Kohli", score: 87 },
5    { name: "Rohit Sharma", score: 45 },
6    { name: "Shubman Gill", score: 73 },
7    { name: "KL Rahul", score: 62 },
8    { name: "Hardik Pandya", score: 91 },
9    { name: "Ravindra Jadeja", score: 33 },
10   { name: "R. Ashwin", score: 68 },
11   { name: "Mohammed Shami", score: 75 },
12   { name: "Jasprit Bumrah", score: 55 },
13   { name: "Ishan Kishan", score: 72 },
14   { name: "Yuzvendra Chahal", score: 41 },
15 ];
16
17 // Filter using arrow function
18 const filteredPlayers = players.filter((player) => player.score >= 70);
19
20 function ListOfPlayers() {
21   return (
22     <div>
23       <h2>All Players:</h2>
24       <ul>
25         {players.map((p, index) => (
26           <li key={index}>
27             {p.name} - {p.score}
28           </li>
29         ))}
30       </ul>
31       <h2>Players with score ≥ 70:</h2>
32       <ul>
33         {filteredPlayers.map((p, index) => (
34           <li key={index}>
35             {p.name} - {p.score}
36           </li>
37         ))}
38       </ul>
39     </div>
40   );
41 }
42
43 export default ListOfPlayers;
```

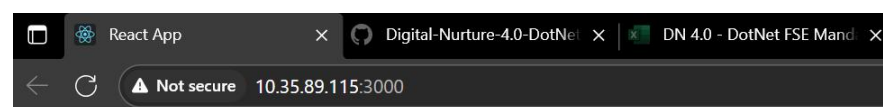
Code in src/Components/IndianPlayers.js

```
src > Components > JS IndianPlayers.js > ...
1  import React from "react";
2
3  function IndianPlayers() {
4    const allPlayers = [
5      "Virat", "Rohit", "Gill", "Rahul", "Pandya", "Jadeja",
6      "Ashwin", "Shami", "Bumrah", "Ishan", "Chahal"
7    ];
8
9    // Destructuring to separate Odd & Even index players
10   const oddPlayers = allPlayers.filter((_, i) => i % 2 !== 0);
11   const evenPlayers = allPlayers.filter((_, i) => i % 2 === 0);
12
13   // Merge T20 & Ranji Players using spread (...)
14   const T20Players = ["Dhoni", "Raina", "Karthik"];
15   const RanjiPlayers = ["Pujara", "Rahane", "Saha"];
16   const mergedPlayers = [...T20Players, ...RanjiPlayers];
17
18   return (
19     <div>
20       <h2>Odd Team Players:</h2>
21       <ul>
22         {oddPlayers.map((p, i) => <li key={i}>{p}</li>)}
23       </ul>
24
25       <h2>Even Team Players:</h2>
26       <ul>
27         {evenPlayers.map((p, i) => <li key={i}>{p}</li>)}
28       </ul>
29
30       <h2>Merged Players (T20 + Ranji):</h2>
31       <ul>
32         {mergedPlayers.map((p, i) => <li key={i}>{p}</li>)}
33       </ul>
34     </div>
35   );
36 }
37
38 export default IndianPlayers;
```

Code in App.js

```
src > JS App.js > ...
1  import React from "react";
2  import ListOfPlayers from "../Components/ListOfPlayers";
3  import IndianPlayers from "../Components/IndianPlayers";
4
5  function App() {
6    const flag = true; // Toggle this to false to view IndianPlayers
7
8    return (
9      <div className="App">
10        <h1> 🏏 Cricket App</h1>
11        {flag ? <ListOfPlayers /> : <IndianPlayers />}
12      </div>
13    );
14  }
15
16  export default App;
17
```

Output:



🏏 Cricket App

All Players:

- Virat Kohli - 87
- Rohit Sharma - 45
- Shubman Gill - 73
- KL Rahul - 62
- Hardik Pandya - 91
- Ravindra Jadeja - 33
- R. Ashwin - 68
- Mohammed Shami - 75
- Jasprit Bumrah - 55
- Ishan Kishan - 72
- Yuzvendra Chahal - 41

Players with score ≥ 70 :

- Virat Kohli - 87
- Shubman Gill - 73
- Hardik Pandya - 91
- Mohammed Shami - 75
- Ishan Kishan - 72