

Week7_React_9_ReactJS_HOL

Creating the app

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Active code page: 65001
Active code page: 65001

C:\Users\veert\OneDrive\Desktop\javanew>npx create-react-app cricketapp

Creating a new React app in C:\Users\veert\OneDrive\Desktop\javanew\cricketapp.

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

added 1323 packages in 58s

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 4s

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

removed 1 package, and audited 1340 packages in 3s
```

Folder Structure

```
EXPLORER

▼ JAVANEW
  ▼ cricketapp
    > node_modules
    > public
    ▼ src
      ▼ Components
        JS IndianPlayers.js
        JS ListofPlayers.js
      # App.css
      JS App.js
      JS App.test.js
      # index.css
      JS index.js
      logo.svg
      JS reportWebVitals.js
      JS setupTests.js
    .gitignore
    {} package-lock.json
    {} package.json
    ⓘ README.md
```

IndianPlayers.js

cricketapp > src > Components > JS IndianPlayers.js > ...

```
1  import React from 'react';
2  const IndianPlayers = () => {
3    const allPlayers = ['Virat', 'Rohit', 'Dhoni', 'Kohli', 'Gill', 'Pant', 'Jadeja', 'Ashwin'];
4    const oddTeam = allPlayers.filter( (_, index) => index % 2 !== 0);
5    const evenTeam = allPlayers.filter( (_, index) => index % 2 === 0);
6    const [p1, p2, p3, p4] = oddTeam;
7    const [q1, q2, q3, q4] = evenTeam;
8    const T20players = ['Hardik', 'Surya'];
9    const RanjiTrophy = ['Pujara', 'Rahane'];
10   const mergedPlayers = [...T20players, ...RanjiTrophy];
11   return (
12     <div>
13       <h2>Odd Team Players:</h2>
14       <ul>
15         <li>{p1}</li>
16         <li>{p2}</li>
17         <li>{p3}</li>
18         <li>{p4}</li>
19       </ul>
20       <h2>Even Team Players:</h2>
21       <ul>
22         <li>{q1}</li>
23         <li>{q2}</li>
24         <li>{q3}</li>
25         <li>{q4}</li>
26       </ul>
27       <h2>Merged Players (T20 + Ranji Trophy):</h2>
28       <ul>
29         {mergedPlayers.map((player, index) => (
30           <li key={index}>{player}</li>
31         ))}
32       </ul>
33     </div>
34   );
35 }
36 export default IndianPlayers;
37
```

ListofPlayers.js

```
cricketapp > src > Components > JS ListofPlayers.js > ...
3  const ListofPlayers = () => {
17
18    const playerList = players.map((player, index) => (
19      <li key={index}>
20        {player.name} - {player.score}
21      </li>
22    ));
23
24    const lowScorers = players.filter(player => player.score < 70);
25
26    return (
27      <div>
28        <h2>All Players:</h2>
29        <ul>{playerList}</ul>
30        <h2>Players with score below 70:</h2>
31        <ul>
32          {lowScorers.map((player, index) => (
33            <li key={index}>
34              {player.name} - {player.score}
35            </li>
36          ))}
37        </ul>
38      </div>
39    );
40  };
41
42  export default ListofPlayers;
43
```

App.js

```
JS ListofPlayers.js U  JS App.js M X  JS IndianPlayers.js U ●
cricketapp > src > JS App.js > ...
1  import React, { useState } from 'react';
2  import ListofPlayers from './Components/ListofPlayers';
3  import IndianPlayers from './Components/IndianPlayers';
4
5  function App() {
6    const [view, setView] = useState('list');
7
8    return (
9      <div className="App">
10        <div style={{ marginBottom: '20px' }}>
11          <button onClick={() => setView('list')}>Show List of Players</button>
12          <button onClick={() => setView('indian')}>Show Indian Players</button>
13        </div>
14
15        {view === 'list' && <ListofPlayers />}
16        {view === 'indian' && <IndianPlayers />}
17      </div>
18    );
19  }
20
21  export default App;
22
```

Starting the app

```
Compiling...
Compiled successfully!

On Your Network:  http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build On Your Network:  http://192.168.56.1:3000

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webpack compiled successfully
```

Output

Show List of Players Show Indian Players

All Players:

- Virat - 90
- Rohit - 85
- Dhoni - 60
- Kohli - 70
- Gill - 88
- Pant - 55
- Jadeja - 95
- Ashwin - 68
- Bumrah - 76
- Shami - 62
- Kuldeep - 80

Players with score below 70:

- Dhoni - 60
- Pant - 55
- Ashwin - 68
- Shami - 62

Show List of Players

Show Indian Players

Odd Team Players:

- Rohit
- Kohli
- Pant
- Ashwin

Even Team Players:

- Virat
- Dhoni
- Gill
- Jadeja

Merged Players (T20 + Ranji Trophy):

- Hardik
- Surya
- Pujara
- Rahane