

## Create a React Application

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Acadgild_fswd_21apr1\day25-jul21\assignment\assignment25.1> npm install --save-dev create-react-component-folder

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Acadgild_fswd_21apr1\day25-jul21\assignment\assignment25.1> npx crcf User

JS registerServiceWorker.js
> User
> .gitignore
> package-lock.json
> package.json
> README.md

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Acadgild_fswd_21apr1\day25-jul21\assignment\assignment25.1\node_modules\create-react-component-folder\bin\crcf.js
\ Creating components files...
Created new React components at:
User
├─ index.js
├─ User.js
├─ User.test.js
└─ User.css
Finished in: 114.685ms
Success!

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Acadgild_fswd_21apr1\day25-aug4\assignment> npm install -g create-react-app
C:\Users\Pradeep K\AppData\Roaming\npm\create-react-app -> C:\Users\Pradeep K\AppData\Roaming\npm\node_modules\create-react-app\index.js
+ create-react-app@1.5.2
updated 1 package in 5.474s
PS C:\Acadgild_fswd_21apr1\day25-aug4\assignment>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
+ create-react-app@1.5.2
updated 1 package in 5.474s
PS C:\Acadgild_fswd_21apr1\day25-aug4\assignment> create-react-app assignment25.1

Creating a new React app in C:\Acadgild_fswd_21apr1\day25-aug4\assignment\assignment25.1.

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

[.....] \ fetchMetadata: sill cleanup remove extracted module

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
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 assignment25.1
npm start

Happy hacking!
PS C:\Acadgild_fswd_21apr1\day25-aug4\assignment>
```

- The application should be displaying details of a single user like Name,age , etc.

JS App.js

```
1 import React from 'react';
2 import './App.css';
3 // import the User component
4 import User from "../User/User";
5
6 const users = [
7   { id: 1, name: "Sachin", age: 30, skills: ["Entrepreneur", "Cricket"]},
8   { id: 2, name: "Som", age: 78, skills: ["Sleeping", "Writing codes"]},
9   { id: 3, name: "Suraj", age: 26, skills: ["Singer", "Tennis"]},
10  { id: 4, name: "Saurav", age: 32, skills: ["Doctor", "Badminton"]},
11  { id: 5, name: "Rohan", age: 34, skills: ["Pilot", "Golf"]}
12 ];
13
```

- The application should have App.js file which contains App component

```
JS App.js  x  JS User.js

1  import React from 'react';
2  import './App.css';
3  // import the User component
4  import User from './User/User';
5
6  const users = [
7    { id: 1, name: "Sachin", age: 30, details: ["Entrepreneur", "Cricket"]},
8    { id: 2, name: "Som", age: 78, details: ["Sleeping", "Writing codes"]},
9    { id: 3, name: "Suraj", age: 26, details: ["Tennis", "Painter"]},
10   { id: 4, name: "Saurav", age: 32, details: ["Badminton", "Doctor"]},
11   { id: 5, name: "Rohan", age: 34, details: ["Golf", "Pilot"]}
12 ];
13 class App extends React.Component {
14   //App component is rendered
15   //User is the child component that displays the users and according to the
   MakeMeOlder button click update event the age is incremented by 3 years
16   render() {
17     return (
18       <div className="App">
19         <User users={users}/>
20       </div>
21     );
22   }
23 }
24
25 export default App;
```

- Inside App component there should be a child component called User

```
class App extends React.Component {
  //App component is rendered
  //User is the child component that displays the users and according to the
  MakeMeOlder button click update event the age is incremented by 3 years
  render() {
    return (
      <div className="App">
        <User users={users}/>
      </div>
    );
  }
}
```

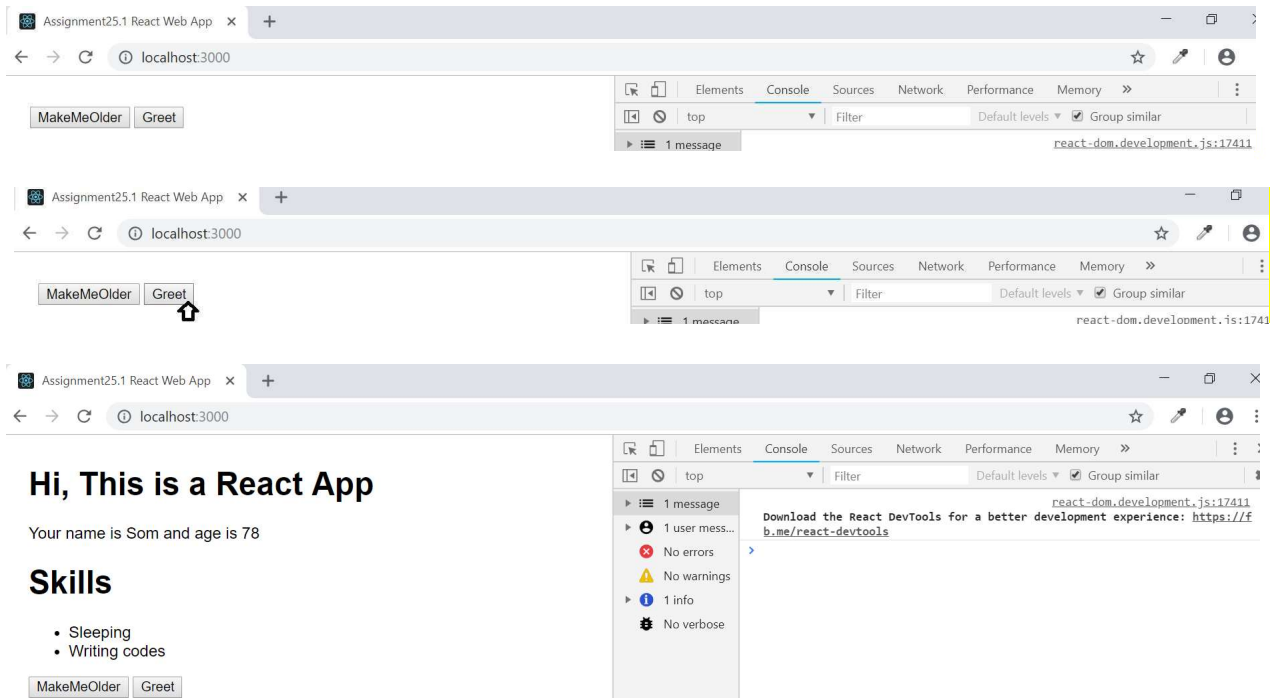
```
PS C:\Acadgild_fswd_21apr1\day25-aug4\assignment\assignment25.1> npm start
```

```
> assignment25.1@0.1.0 start C:\Acadgild_fswd_21apr1\day25-aug4\assignment\assignment25.1
> react-scripts start
Starting the development server...
Compiled successfully!
```

You can now view assignment25.1 in the browser.

`http://localhost:3000/`

Note that the development build is not optimized.  
To create a production build, use `npm run build`.



- The User component should display details of users and should have button to update the age by incrementing the age by 3 years.

Assignment25.1 React Web App x +

localhost:3000

# Hi, This is a React App

Your name is Som and age is 78

## Skills

- Sleeping
- Writing codes

MakeMeOlder Greet

```
<!doctype html>
<html lang="en" == $0
  <head></head>
  <body cz-shortcut-listen="true">
    <noscript>
      You need to enable JavaScript to run this app.
    </noscript>
    <div id="root">
      <div class="App">
        <div>
          <div>
            <h1>Hi, This is a React App</h1>
            "Your name is "
            "Som"
            " and age is "
            "78"
            <h1>Skills</h1>
            <ul>
              <li>Sleeping</li>
              <li>Writing codes</li>
            </ul>
          </div>
          <span>
            <button>MakeMeOlder</button>
            <button>Greet</button>
          </span>
        </div>
      </div>
    </div>
  </div>
```

- On updating the age the application should display details with new age.

Assignment25.1 React Web App x +

localhost:3000

# Hi, This is a React App

Your name is Som and age is 81

## Skills

- Sleeping
- Writing codes

MakeMeOlder Greet

```
<!doctype html>
<html lang="en" == $0
  <head></head>
  <body cz-shortcut-listen="true">
    <noscript>
      You need to enable JavaScript to run this app.
    </noscript>
    <div id="root">
      <div class="App">
        <div>
          <div>
            <h1>Hi, This is a React App</h1>
            "Your name is "
            "Som"
            " and age is "
            "81"
            <h1>Skills</h1>
            <ul>
              <li>Sleeping</li>
              <li>Writing codes</li>
            </ul>
          </div>
          <span>
            <button>MakeMeOlder</button>
            <button>Greet</button>
          </span>
        </div>
      </div>
    </div>
  </div>
```

- Use propTypes to check the types of each props.

```
JS App.js    <> index.html    JS User.js    x
1  import React from 'react';
2  import PropTypes from 'prop-types';
3  import './User.css';
4
5  class User extends React.Component {
6    //User component is first initialized. This constructor(props) method is only
    called once.
7    constructor(props){
8      //propTypes to check the types of each props
9      User.propTypes = {
10        name: PropTypes.string.isRequired,
11        age: PropTypes.number.isRequired,
12        details: PropTypes.string.isRequired
13      };
14    }
15  }
```