

Learn step by step REACT.JS with WEBAPI CURD operation

## Part 1: Create react application and Dom routing

### npm create-react-app users

```
Microsoft Windows [Version 10.0.19041.1415]
(c) Microsoft Corporation. All rights reserved.

F:\MY REACT>npx create-react-app users

Creating a new React app in F:\MY REACT\users.

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

[ ] - idealTree:@babel/core: sill fetch manifest klona@^2.0.4
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19041.1415]
(c) Microsoft Corporation. All rights reserved.

F:\MY REACT>npx create-react-app users

Creating a new React app in F:\MY REACT\users.

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

added 1373 packages in 5m

169 packages are looking for funding
  run `npm fund` for details

Initialized a git repository.

Installing template dependencies using npm...
npm WARN deprecated source-map-resolve@0.6.0: See https://github.com/lydell/source-map-resolve#deprecate
ed

added 38 packages in 11s
```

```
C:\Windows\System32\cmd.exe
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:

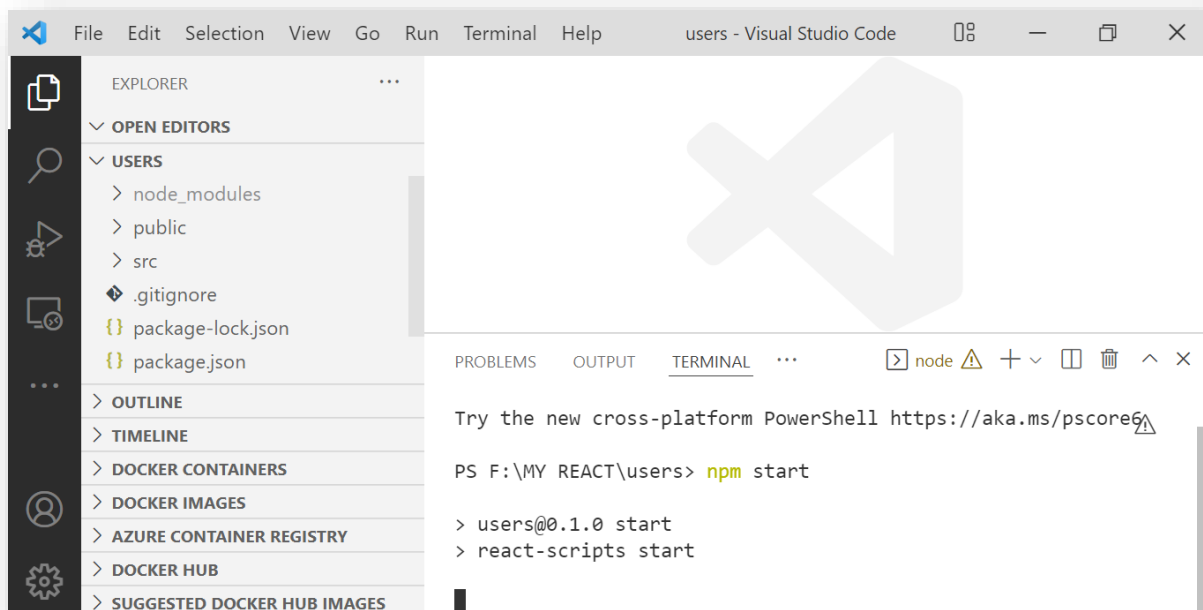
  cd users
  npm start

Happy hacking!

F:\MY REACT>
```

Now open this project in vs and run

```
F:\MY REACT>cd users
F:\MY REACT\users>code .
```

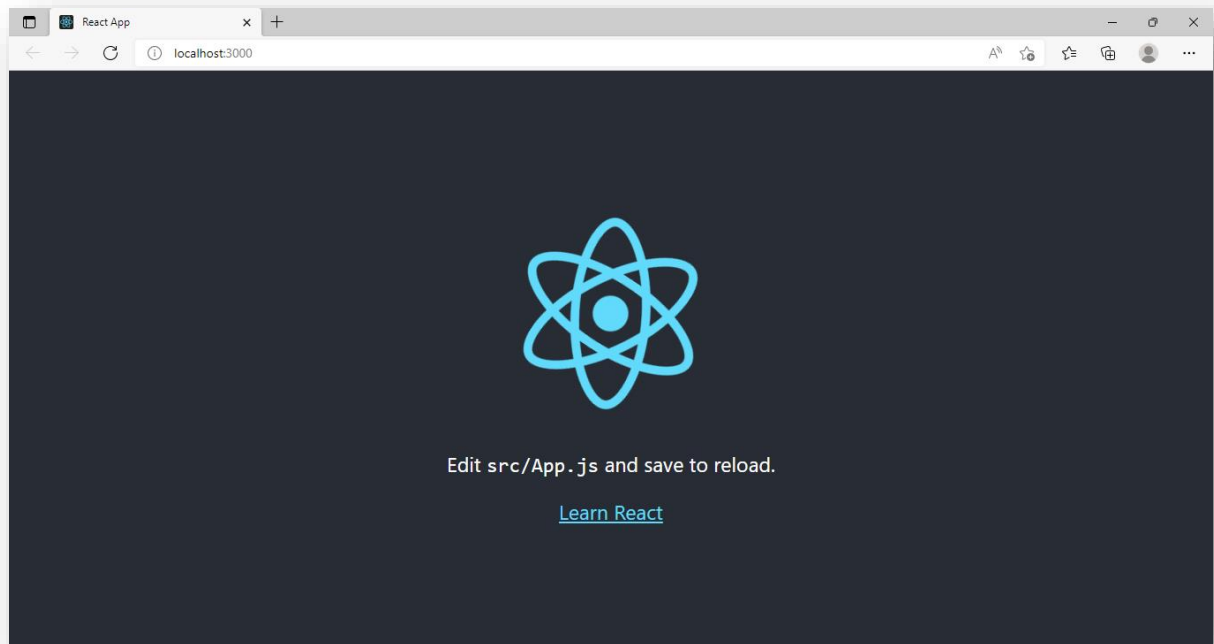


```
users - Visual Studio Code

EXPLORER
  OPEN EDITORS
  USERS
    > node_modules
    > public
    > src
    > .gitignore
    > package-lock.json
    > package.json
  OUTLINE
  TIMELINE
  DOCKER CONTAINERS
  DOCKER IMAGES
  AZURE CONTAINER REGISTRY
  DOCKER HUB
  SUGGESTED DOCKER HUB IMAGES

TERMINAL
  Try the new cross-platform PowerShell https://aka.ms/powershell
  PS F:\MY REACT\users> npm start
  > users@0.1.0 start
  > react-scripts start
```

### Npm start



Now go to vs code and clean up the code and only to display hello world.

### Delete following files

Logo.svg

setupTests.js

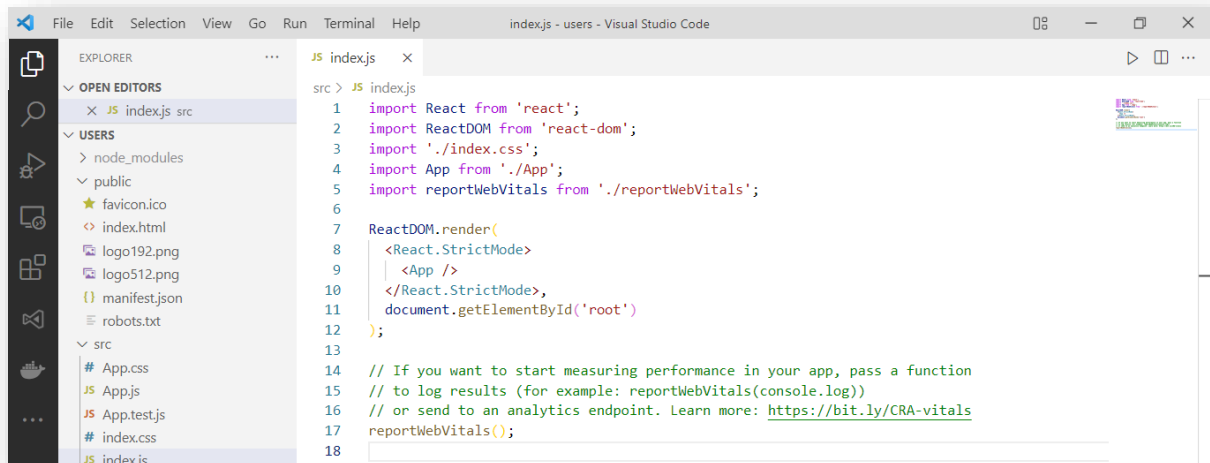
reportWebVitals.js

App.test.js

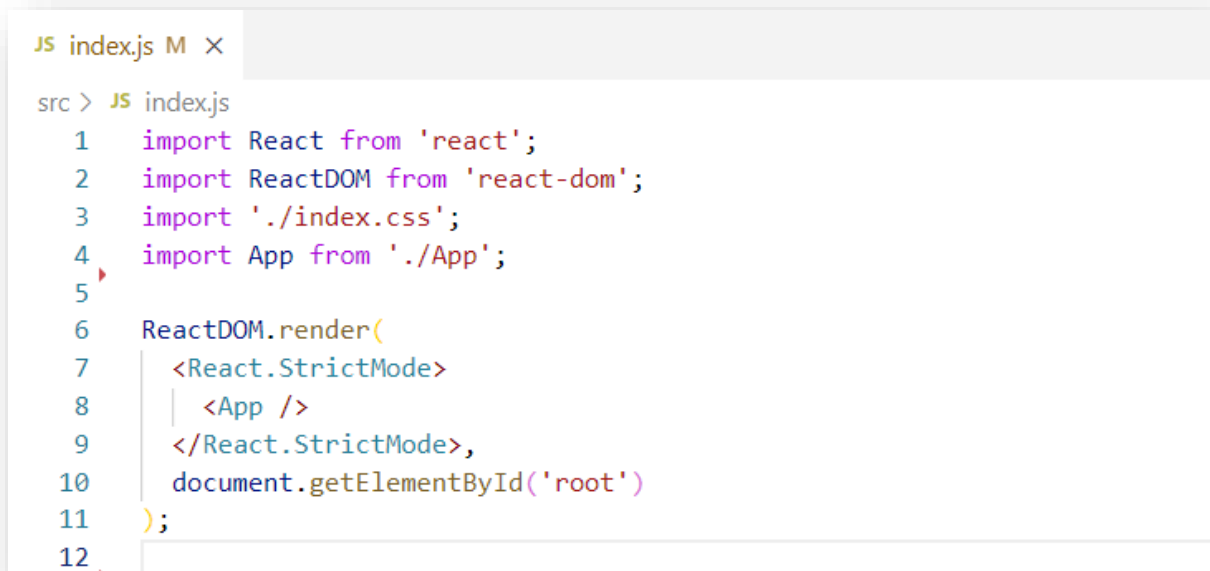
### Do the modification in the files as follows

Let's clean Index.js file

Default code

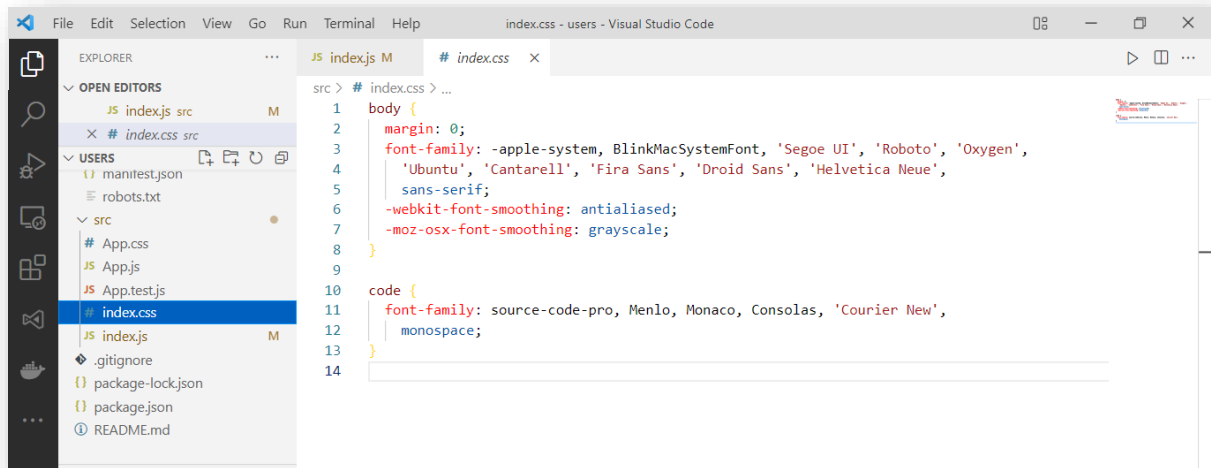


Let's clean the code

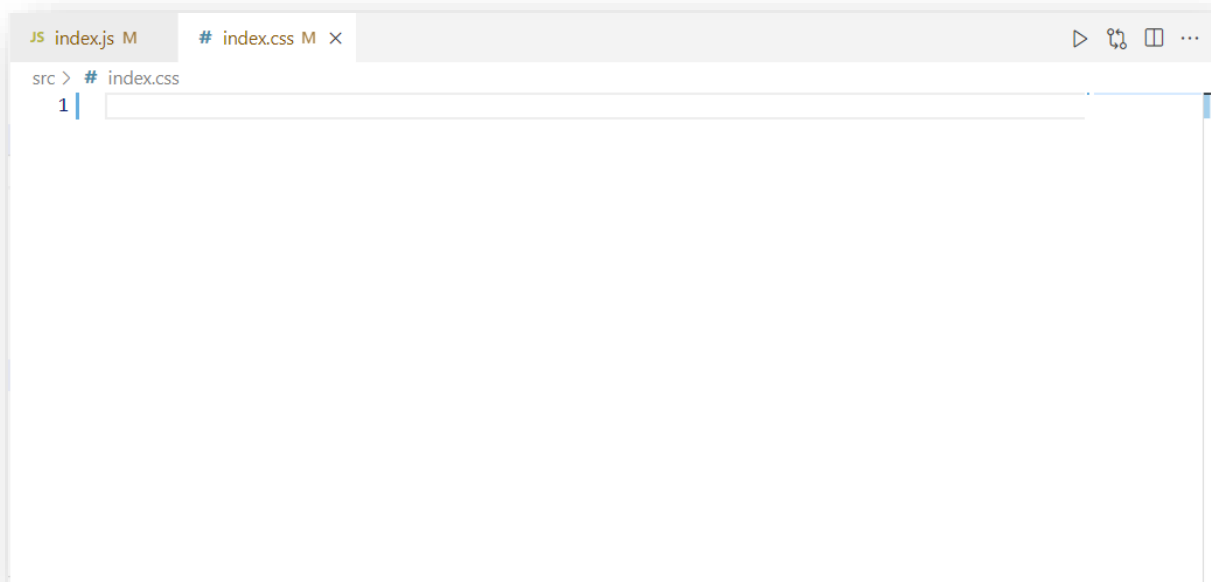


Clean the index.css

## REACT.JS & JSON WEB SERVER WEBAPI

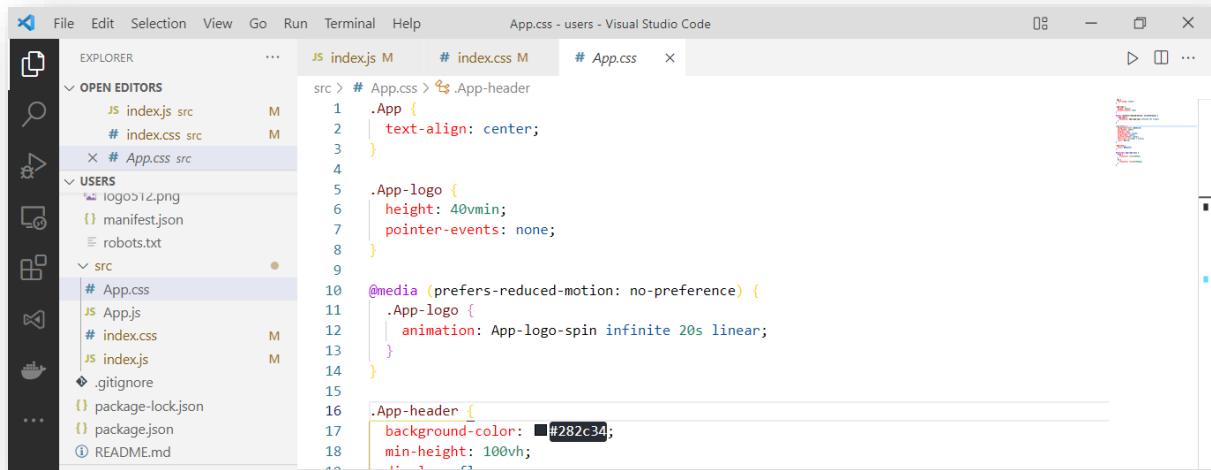


After

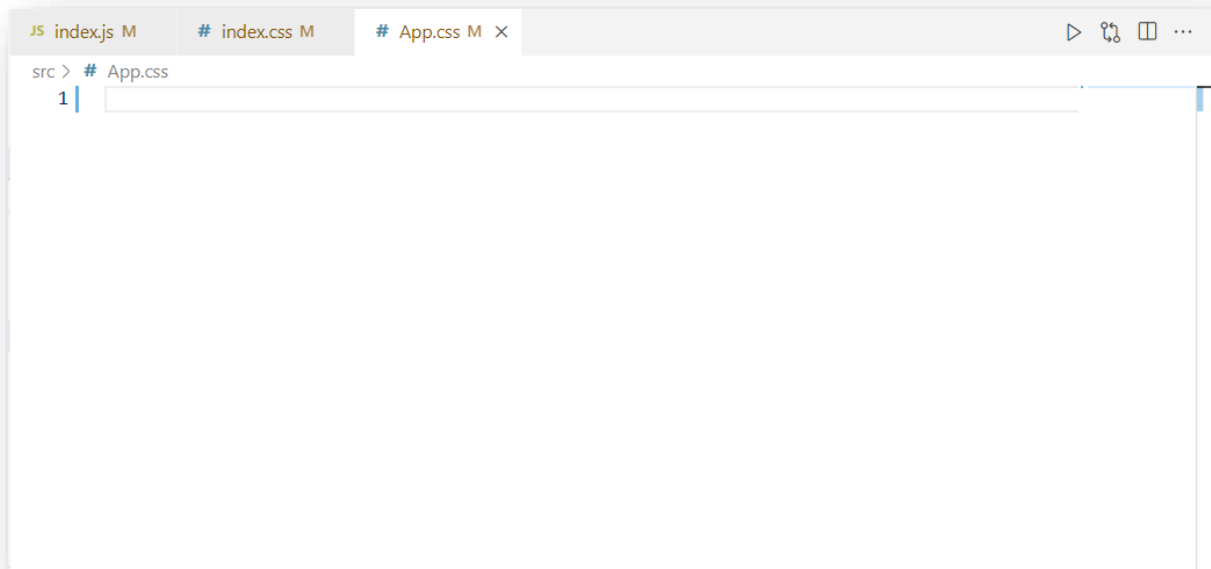


Clean App.css default

## REACT.JS & JSON WEB SERVER WEBAPI

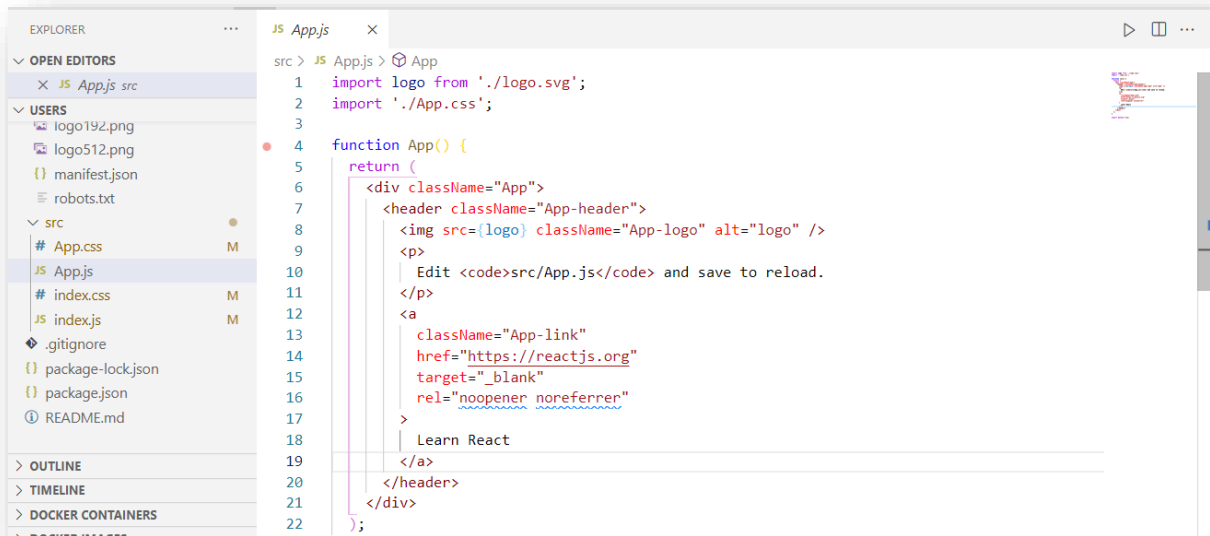


After



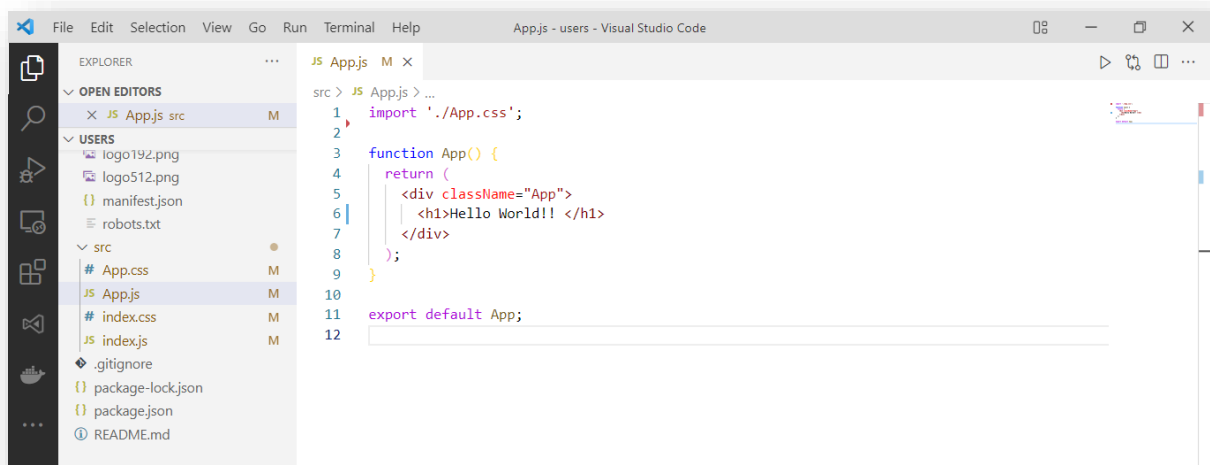
Now clean the few codes from App.js default

## REACT.JS & JSON WEB SERVER WEBAPI



```
src > JS App.js > App
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <header className="App-header">
8         <img src={logo} className="App-logo" alt="logo" />
9         <p>
10           Edit <code>src/App.js</code> and save to reload.
11         </p>
12         <a
13           className="App-link"
14           href="https://reactjs.org"
15           target="_blank"
16           rel="noopener noreferrer"
17         >
18           Learn React
19         </a>
20       </header>
21     </div>
22   );
}
```

Do modification and we get output

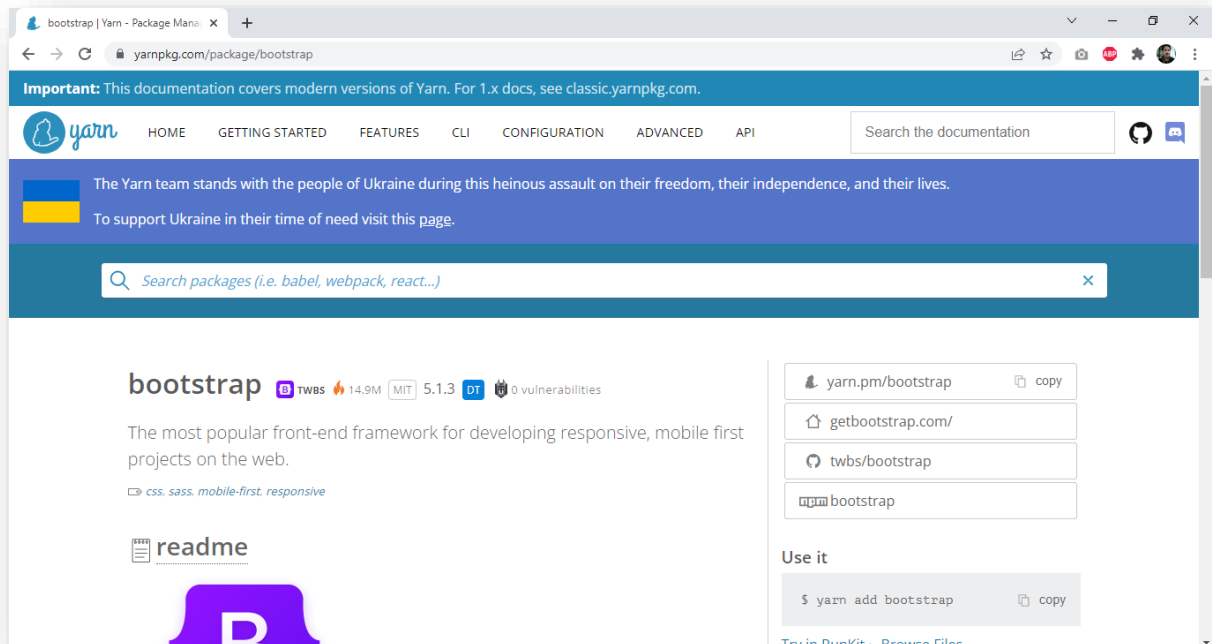
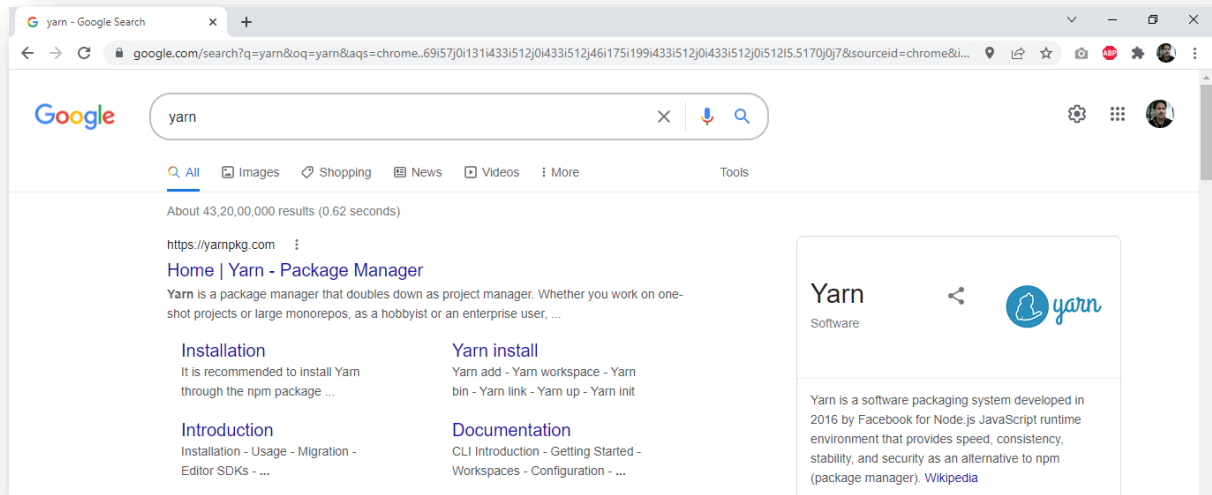


```
src > JS App.js > ...
1 import './App.css';
2
3 function App() {
4   return (
5     <div className="App">
6       <h1>Hello World!! </h1>
7     </div>
8   );
9 }
10
11 export default App;
12
```



Now add bootstrap

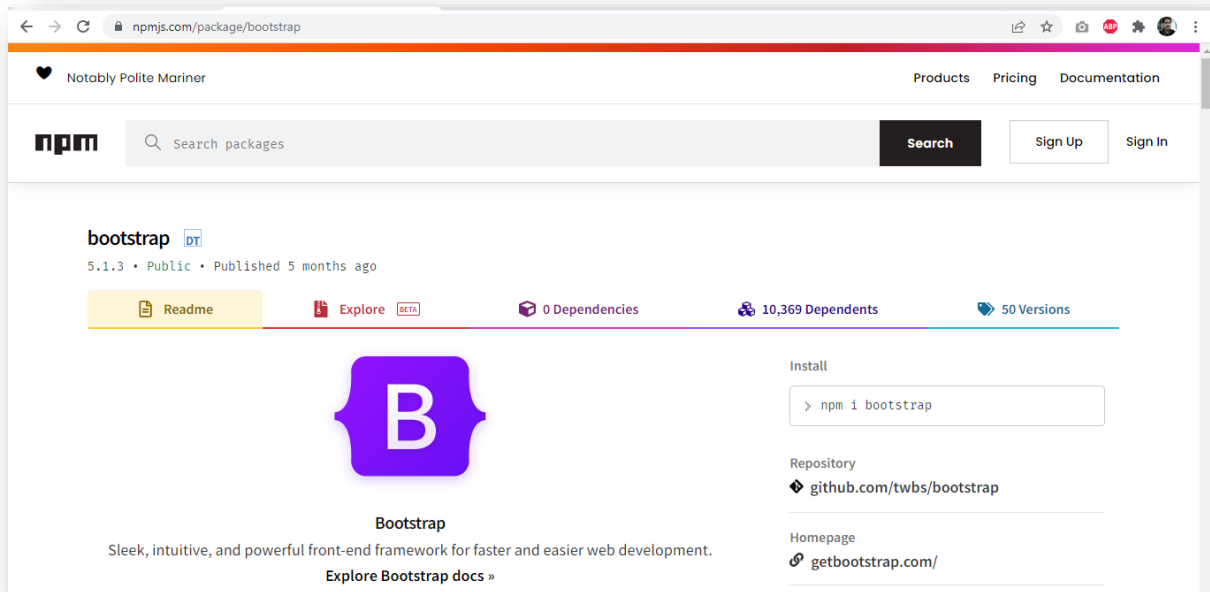
Now in place of npm you can also use yarn. The only thing is yarn is faster than npm.



**yarn add bootstrap**

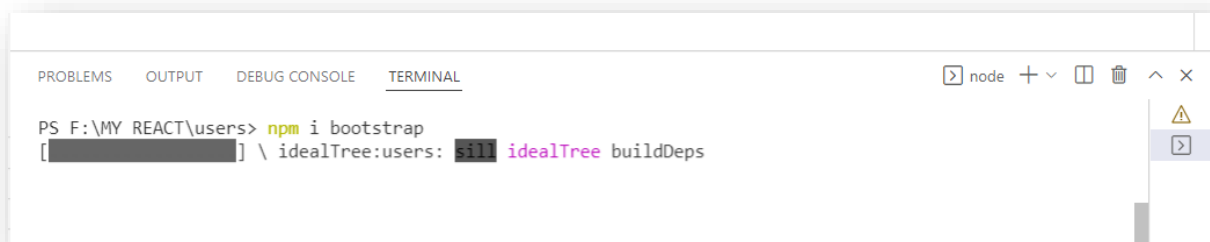
you can also npm



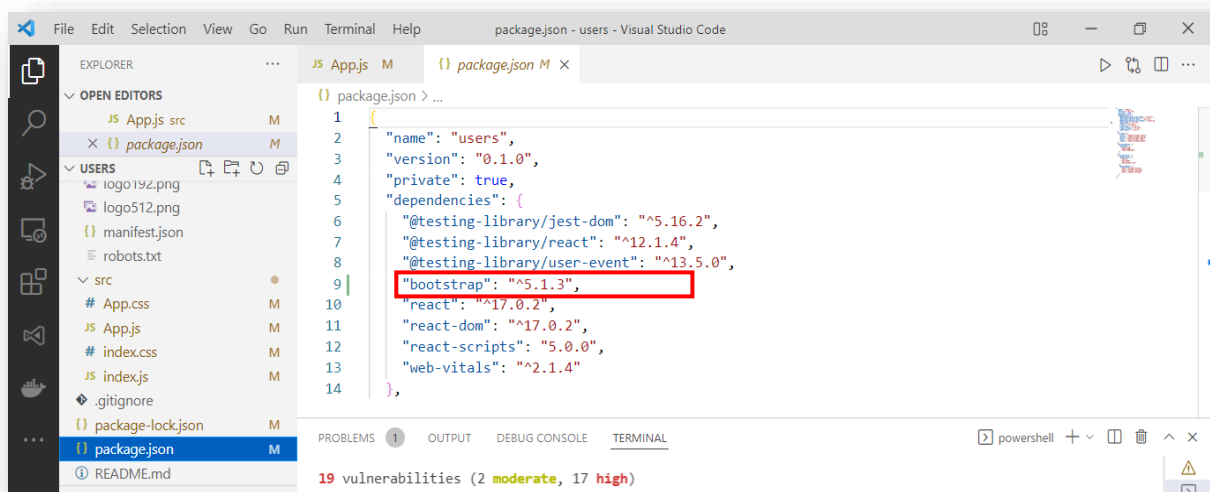


**npm i bootstrap**

**Paste the command on shell and install**



**Now check in package. json bootstrap is installed or not**

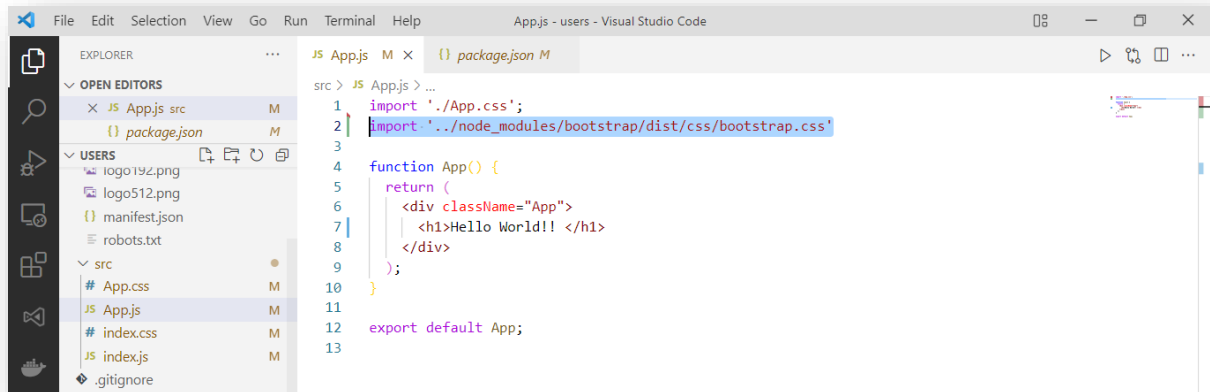


## REACT.JS & JSON WEB SERVER WEBAPI

Now go to App.js and import bootstrap after that it is available entire project.

Add following line in App.js

```
import '../node_modules/bootstrap/dist/css/bootstrap.css'
```

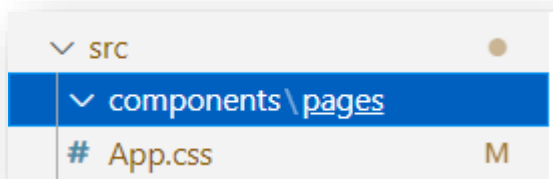


Check output after adding bootstrap

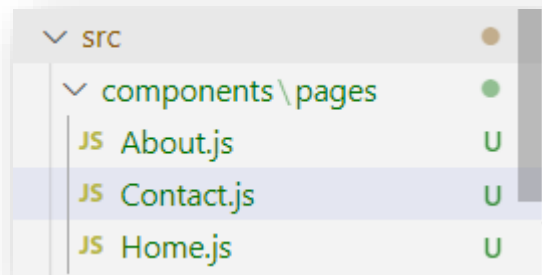


Now create component and better in structural way

Create component folder and add pages folder inside, create pages.



Now added few pages in the pages folder as follows

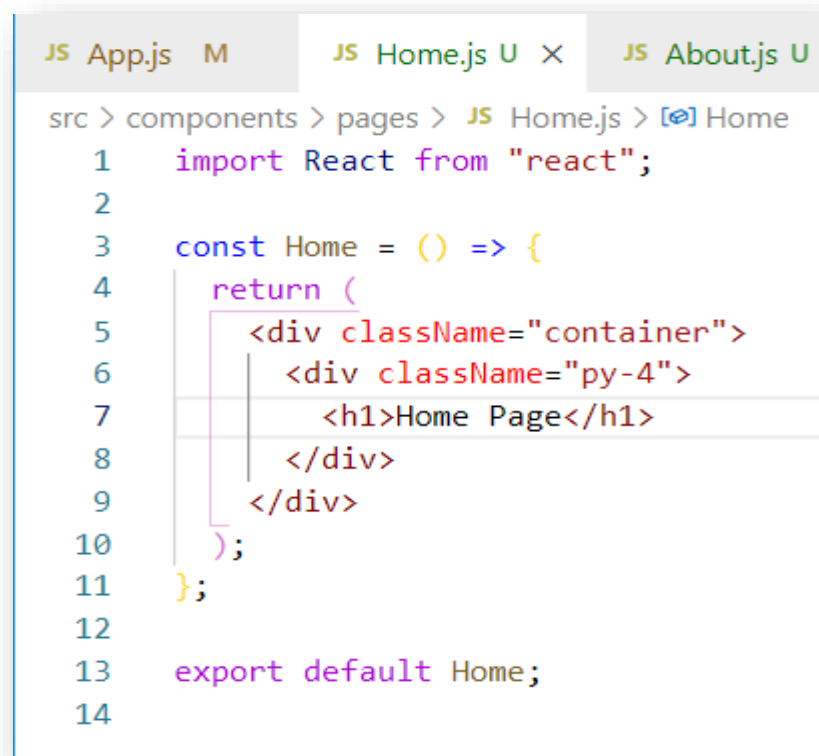


### Now start doing modification one by one

```
import React from "react";

const Home = () => {
  return (
    <div className="container">
      <div className="py-4">
        <h1>Home Page</h1>
      </div>
    </div>
  );
};

export default Home;
```

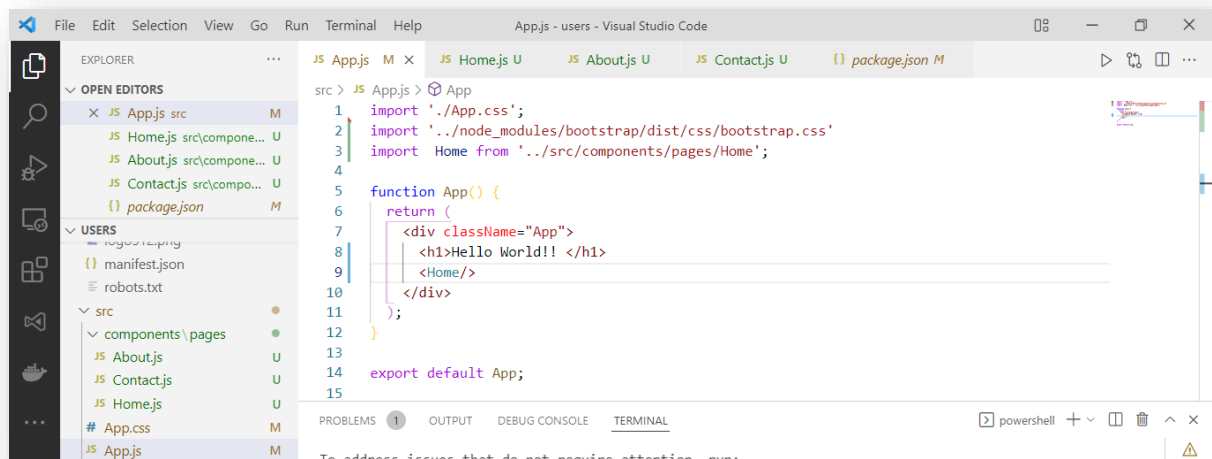


Now let's import Home in App.js file

```
import './App.css';
import '../node_modules/bootstrap/dist/css/bootstrap.css'
import Home from '../src/components/pages/Home';

function App() {
  return (
    <div className="App">
      <h1>Hello World!! </h1>
      <Home/>
    </div>
  );
}

export default App;
```



See the output



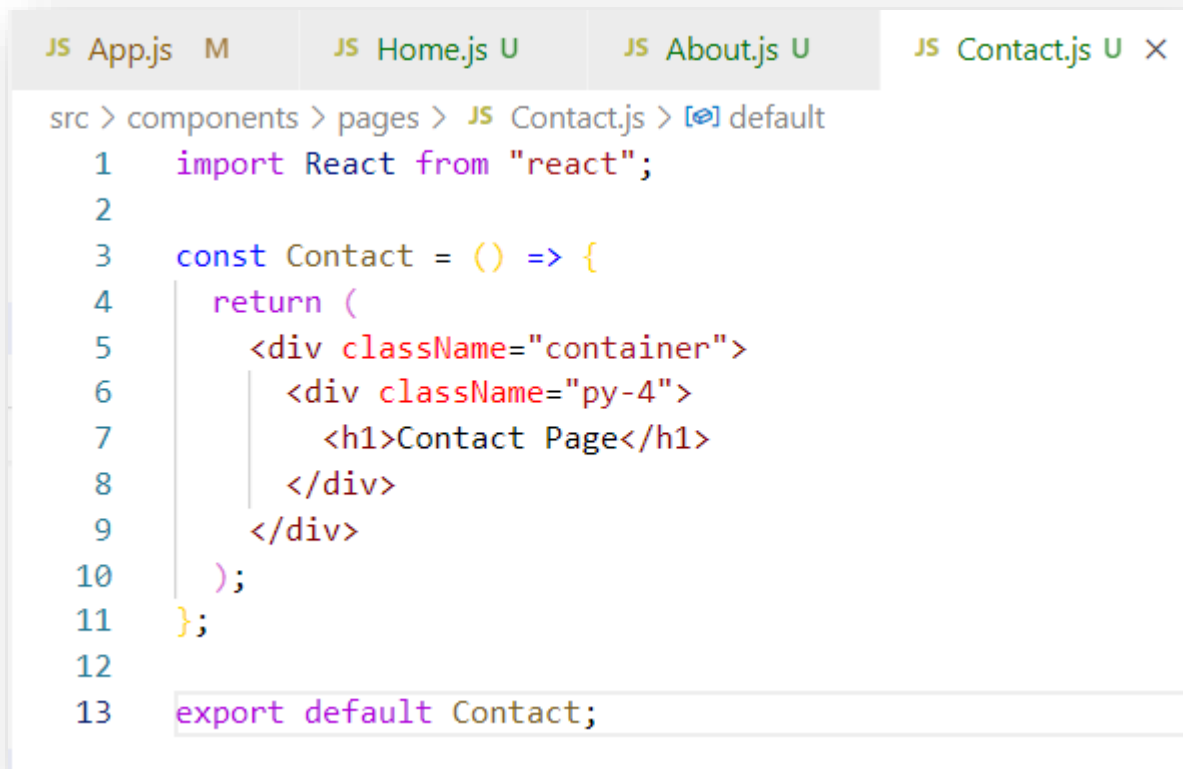
Now create components About, Contact and import into App.js file.

## Contact.js

```
import React from "react";

const Contact = () => {
  return (
    <div className="container">
      <div className="py-4">
        <h1>Contact Page</h1>
      </div>
    </div>
  );
};

export default Contact;
```



## About.js

```
import React from "react";

const About = () => {
  return (
    <div className="container">
      <div className="py-4">
        <h1>About Page</h1>
      </div>
    </div>
  );
};

export default About;
```

```

    </div>
  );
};

export default About;

```

```

src > components > pages > JS About.js > [🔗] About
1  import React from "react";
2
3  const About = () => {
4    return (
5      <div className="container">
6        <div className="py-4">
7          <h1>About Page</h1>
8        </div>
9      </div>
10   );
11 };
12
13 export default About;

```

```

import "./App.css";
import "../node_modules/bootstrap/dist/css/bootstrap.css";
import Home from "../src/components/pages/Home";
import About from "../components/pages/About";
import Contact from "../components/pages/Contact";

function App() {
  return (
    <div className="App">
      <Home />
      <About />
      <Contact />
    </div>
  );
}

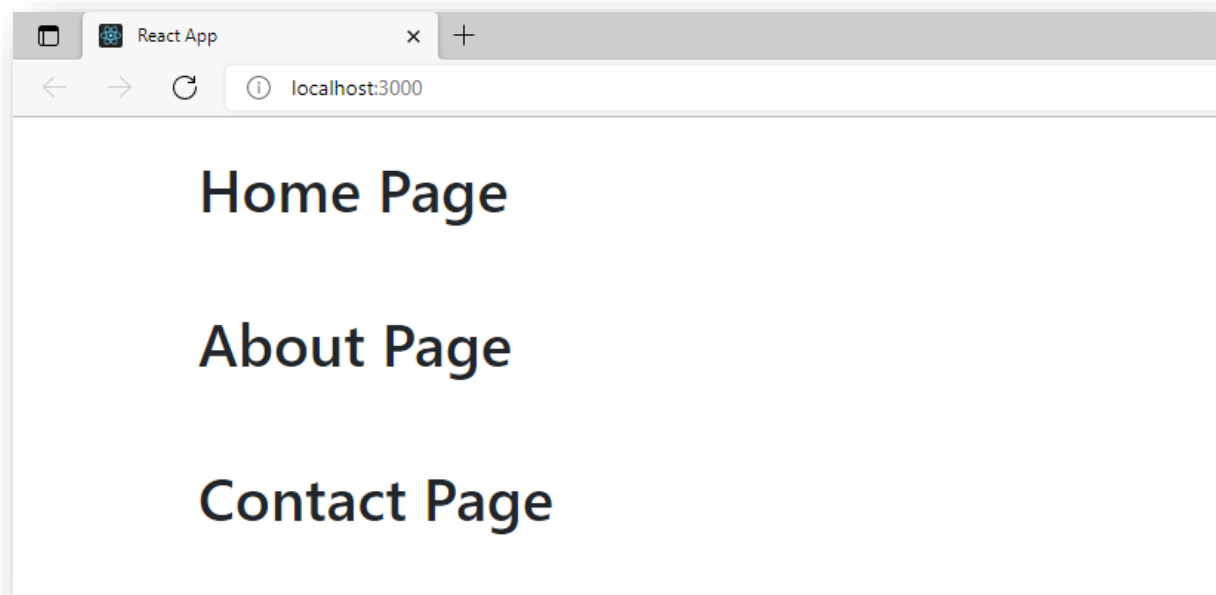
```

`export default App;`

```

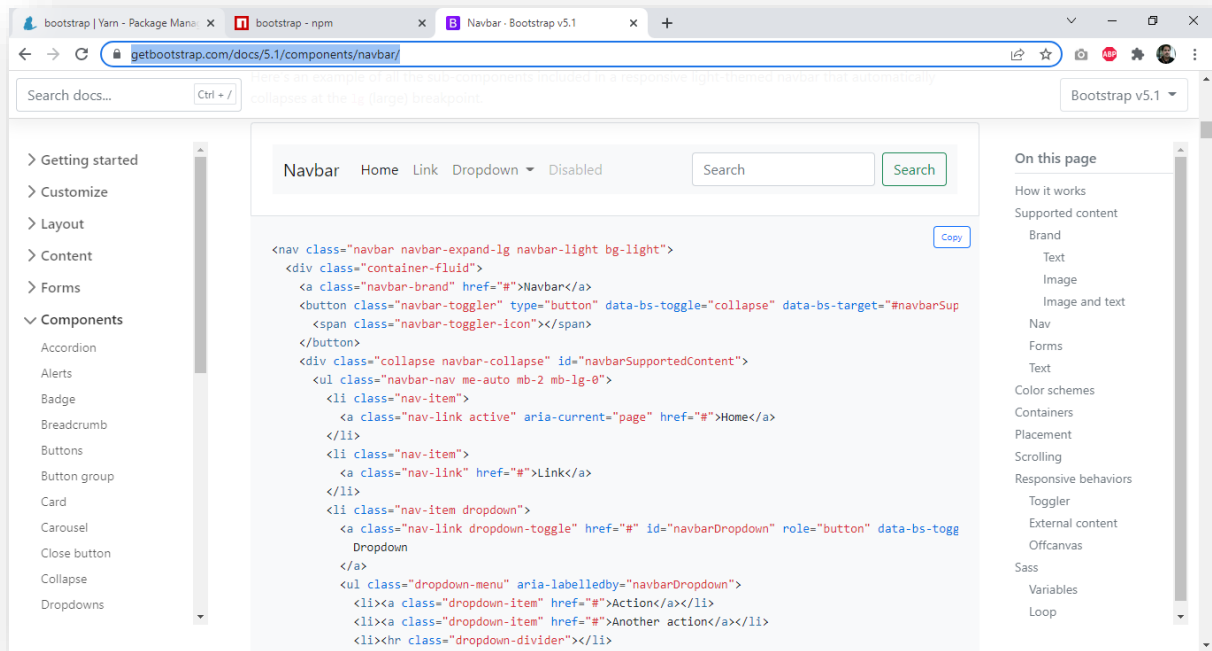
JS App.js M x JS Home.js U JS About.js U JS Contact.js U {} pa
src > JS App.js > App
1 | import './App.css';
2 | import '../node_modules/bootstrap/dist/css/bootstrap.css';
3 | import Home from '../src/components/pages/Home';
4 | import About from './components/pages/About';
5 | import Contact from './components/pages/Contact';
6 |
7 | function App() {
8 |   return (
9 |     <div className="App">
10 |       <Home />
11 |       <About />
12 |       <Contact />
13 |     </div>
14 |   );
15 | }
16 |
17 | export default App;
18 |

```



Now create Navbar in your project

<https://getbootstrap.com/docs/5.1/components/navbar/>



Add one new folder Layout and create component Navbar.js

Navbar.js

```
import React from "react";
```

```
const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <div class="container-fluid">
        <a class="navbar-brand" href="#">
          Navbar
        </a>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
```



```

<li class="nav-item">
  <a class="nav-link active" aria-current="page" href="#">
    Home
  </a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">
    Link
  </a>
</li>
<li class="nav-item dropdown">
  <a
    class="nav-link dropdown-toggle"
    href="#"
    id="navbarDropdown"
    role="button"
    data-bs-toggle="dropdown"
    aria-expanded="false"
  >
    Dropdown
  </a>
  <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
    <li>
      <a class="dropdown-item" href="#">
        Action
      </a>
    </li>
    <li>
      <a class="dropdown-item" href="#">
        Another action
      </a>
    </li>
    <li>
      <hr class="dropdown-divider" />
    </li>
    <li>
      <a class="dropdown-item" href="#">
        Something else here
      </a>
    </li>
  </ul>
</li>
<li class="nav-item">
  <a class="nav-link disabled">Disabled</a>
</li>
</ul>
<form class="d-flex">
  <input

```

```

        class="form-control me-2"
        type="search"
        placeholder="Search"
        aria-label="Search"
      />
      <button class="btn btn-outline-success" type="submit">
        Search
      </button>
    </form>
  </div>
</div>
</nav>
);
};
export default Navbar;

```

### And now import into App.js

```

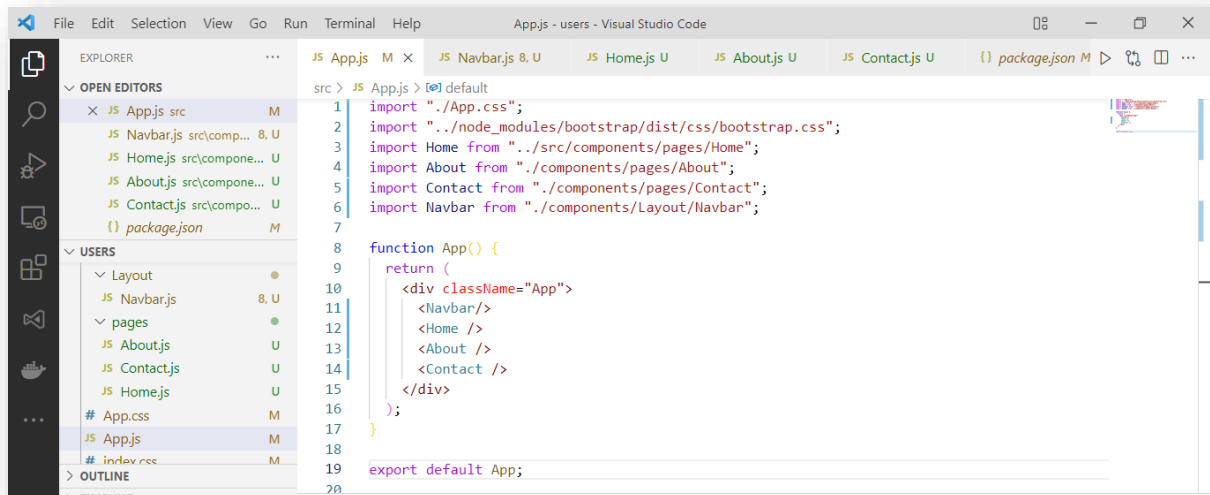
import './App.css';
import '../node_modules/bootstrap/dist/css/bootstrap.css';
import Home from '../src/components/pages/Home';
import About from '../components/pages/About';
import Contact from '../components/pages/Contact';
import Navbar from '../components/Layout/Navbar';

function App() {
  return (
    <div className="App">
      <Navbar/>
      <Home />
      <About />
      <Contact />
    </div>
  );
}

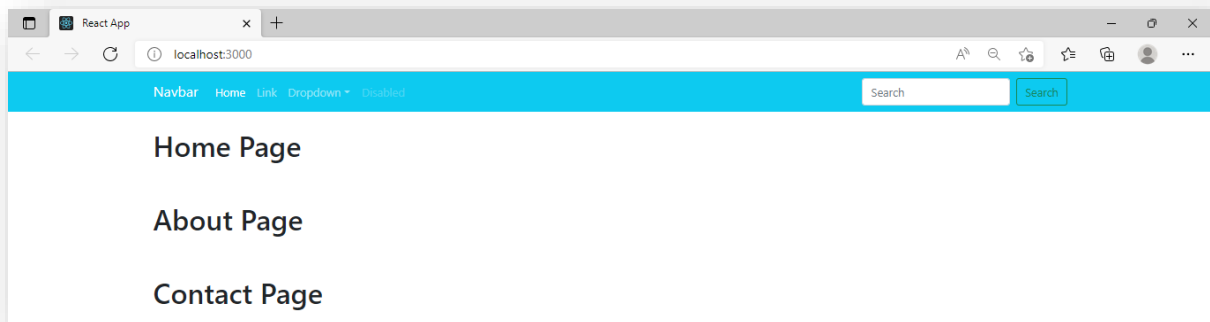
export default App;

```

## REACT.JS & JSON WEB SERVER WEBAPI



Now check the output



```
import React from "react";

const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-dark bg-info">
      <div class="container">
        <a class="navbar-brand" href="#">
          Navbar
        </a>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
      </div>
    </nav>
  );
}
```

```
<div class="collapse navbar-collapse" id="navbarSupportedContent">
  <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    <li class="nav-item">
      <a class="nav-link active" aria-current="page" href="#">
        Home
      </a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">
        Link
      </a>
    </li>
    <li class="nav-item dropdown">
      <a
        class="nav-link dropdown-toggle"
        href="#"
        id="navbarDropdown"
        role="button"
        data-bs-toggle="dropdown"
        aria-expanded="false"
      >
        Dropdown
      </a>
      <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
        <li>
          <a class="dropdown-item" href="#">
            Action
          </a>
        </li>
        <li>
          <a class="dropdown-item" href="#">
            Another action
          </a>
        </li>
        <li>
          <hr class="dropdown-divider" />
        </li>
        <li>
          <a class="dropdown-item" href="#">
            Something else here
          </a>
        </li>
      </ul>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled">Disabled</a>
    </li>
  </ul>
</div>
```

```

    <form class="d-flex">
      <input
        class="form-control me-2"
        type="search"
        placeholder="Search"
        aria-label="Search"
      />
      <button class="btn btn-outline-success" type="submit">
        Search
      </button>
    </form>
  </div>
</div>
</nav>
);
};
export default Navbar;

```

**Now let's make changes in the nav and make simple according to navigation.**

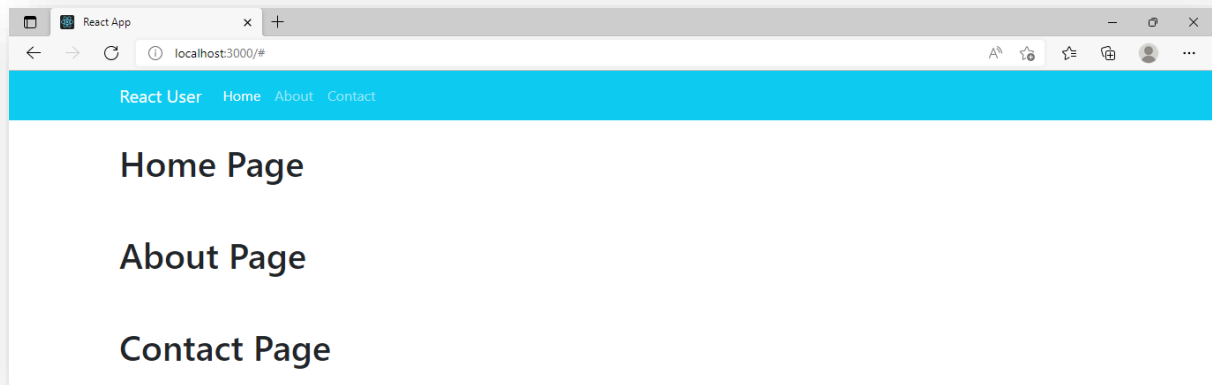
```

import React from "react";

const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-dark bg-info">
      <div class="container">
        <a class="navbar-brand" href="/">
          React User
        </a>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
              <a class="nav-link active" href="/">
                Home
              </a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="#">
                About

```

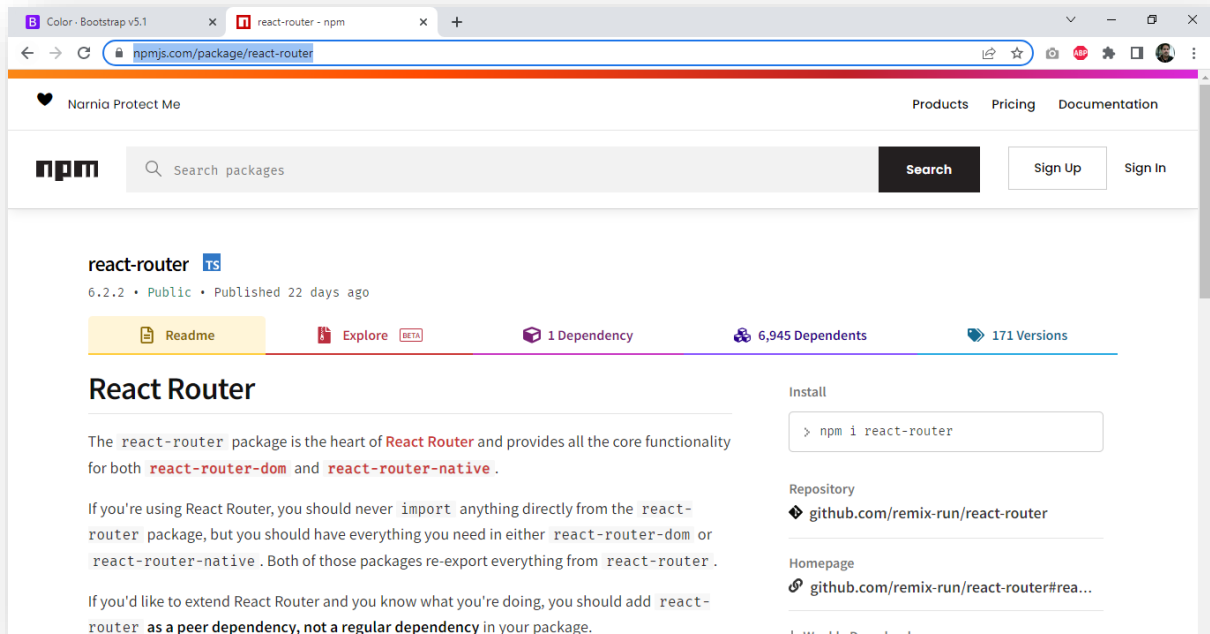
```
        </a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">
          Contact
        </a>
      </li>
    </ul>
  </div>
</div>
</nav>
);
};
export default Navbar;
```



**Now routing install router**

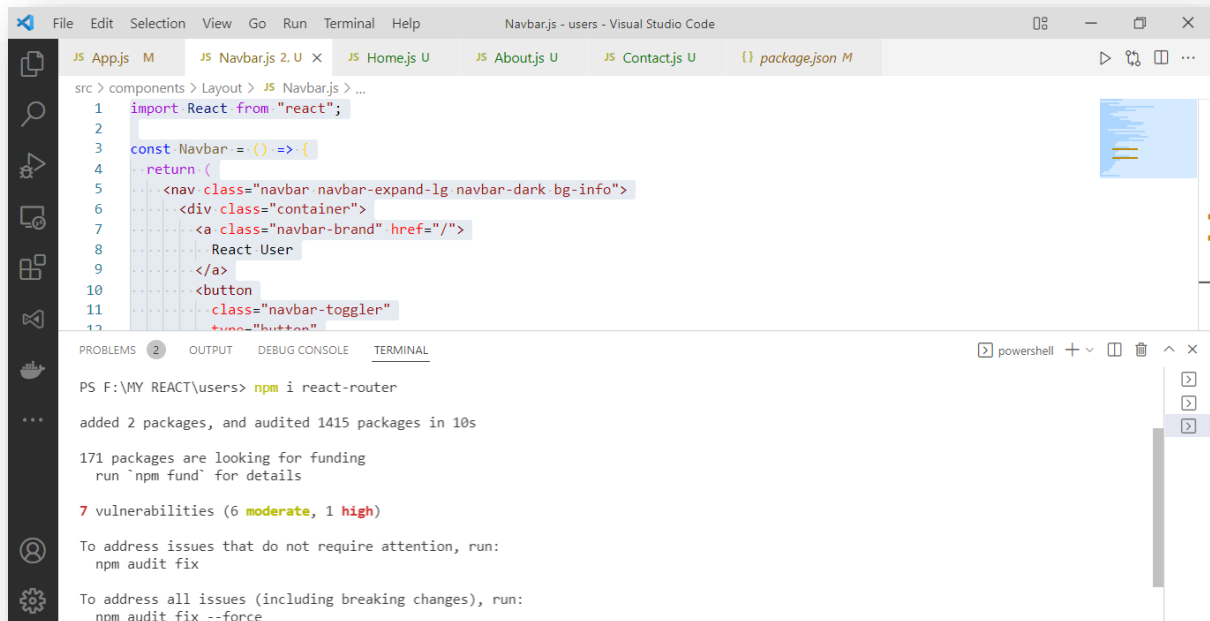
<https://www.npmjs.com/package/react-router>

## REACT.JS & JSON WEB SERVER WEBAPI



**npm i react-router**

**npm install react-router-dom**



**App.js**

```
import "../App.css";
import "../node_modules/bootstrap/dist/css/bootstrap.css";
import Home from "../src/components/pages/Home";
import About from "../components/pages/About";
```

```
import Contact from "../components/pages/Contact";
import Navbar from "../components/Layout/Navbar";

function App() {
  return (
    <div className="App">
      <Navbar />
      <Home />
      <About />
      <Contact />
    </div>
  );
}

export default App;
```

**Now import in App.js and do the following modification**

Step 1:

```
import "../App.css";
import "../node_modules/bootstrap/dist/css/bootstrap.css";
import Home from "../src/components/pages/Home";
import About from "../components/pages/About";
import Contact from "../components/pages/Contact";
import Navbar from "../components/Layout/Navbar";
import { BrowserRouter as Router, Switch, Route } from "react-router-dom";

function App() {
  return (
    <Router>
      <div className="App">
        <Navbar />
        <Home />
        <About />
        <Contact />
      </div>
    </Router>
  );
}

export default App;
```



Step 3: Add switch

**And installed version 5.2.0 of react-router-dom**  
**npm install react-router-dom@5.2.0**

```
import './App.css';
import '../node_modules/bootstrap/dist/css/bootstrap.css';
import Home from '../src/components/pages/Home';
import About from '../components/pages/About';
import Contact from '../components/pages/Contact';
import Navbar from '../components/Layout/Navbar';
import { BrowserRouter as Router, Switch, Route } from 'react-router-dom';

function App() {
  return (
    <Router>
      <div className="App">
        <Navbar />
        <Switch>
          <Route exact path="/" component={Home}/>
          <Route exact path="/about" component={About}/>
          <Route exact path="/Contact" component={Contact}/>
        </Switch>
      </div>
    </Router>
  );
}

export default App;
```

You can on URL, which is not feasibly of doing

[React App](#)



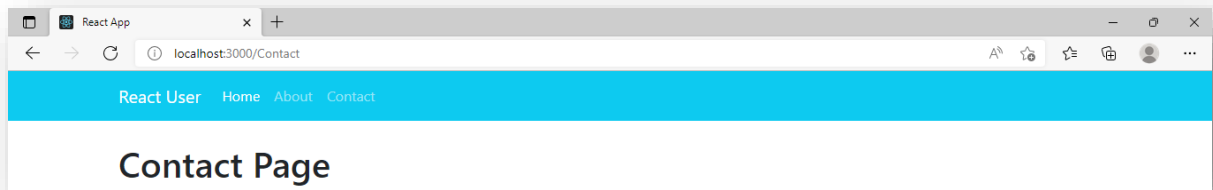
**Step 4: Now avoid typing on the URL, do changes in Navbar component as follows**

```
import React from "react";

const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-dark bg-info">
      <div class="container">
        <a class="navbar-brand" href="/">
          React User
        </a>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
              <a class="nav-link active" href="/">
                Home
              </a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="/About">
                About
              </a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="/Contact">
                Contact
              </a>
            </li>
          </ul>
        </div>
      </div>
    </nav>
  );
};

export default Navbar;
```

Now check, its working but entire page is reloading.



**Step 5: Do some more modification in the component.**

**Hint: select word and press Ctrl+d and change it will change all `<Link class="nav-link active" href="/">`**

**Final code and you notice page will not refresh**

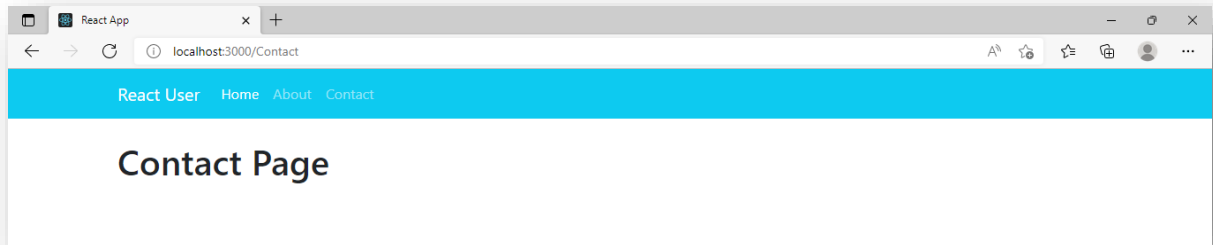
```
import React from "react";
import { Link } from "react-router-dom";

const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-dark bg-info">
      <div class="container">
        <Link class="navbar-brand" to="/">
          React User
        </Link>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
              <Link class="nav-link active" to="/">
                Home
              </Link>
            </li>
            <li class="nav-item">
              <Link class="nav-link" to="/About">
                About
              </Link>
            </li>
          </ul>
        </div>
      </div>
    </nav>
  );
}
```

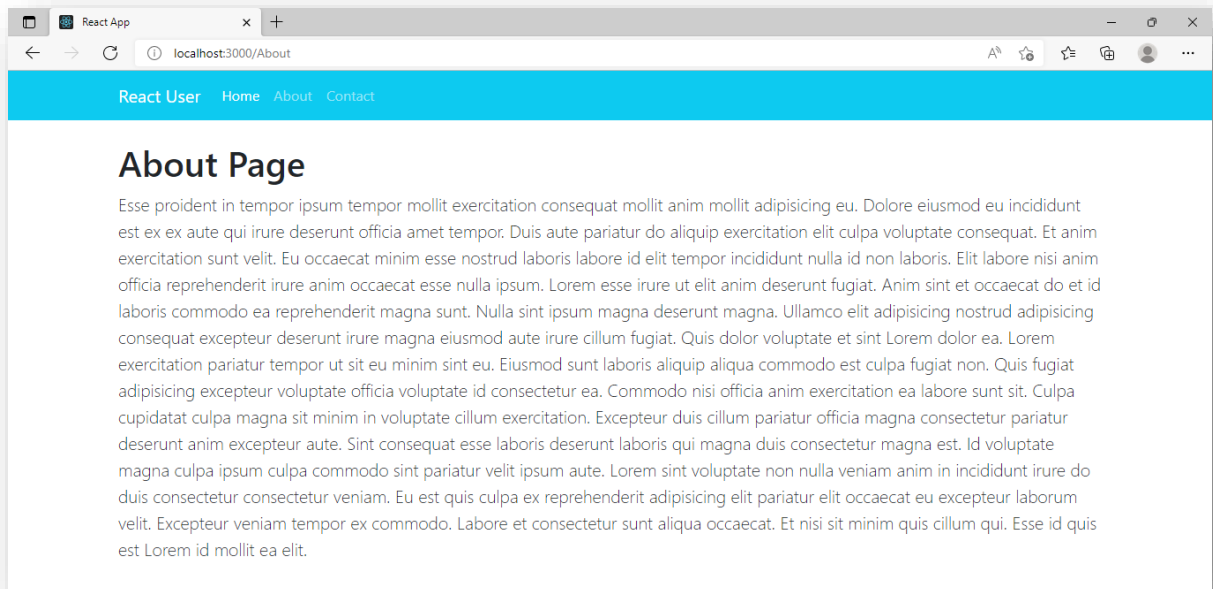
```

        </Link>
      </li>
      <li class="nav-item">
        <Link class="nav-link" to="/Contact">
          Contact
        </Link>
      </li>
    </ul>
  </div>
</div>
</nav>
);
};
export default Navbar;

```

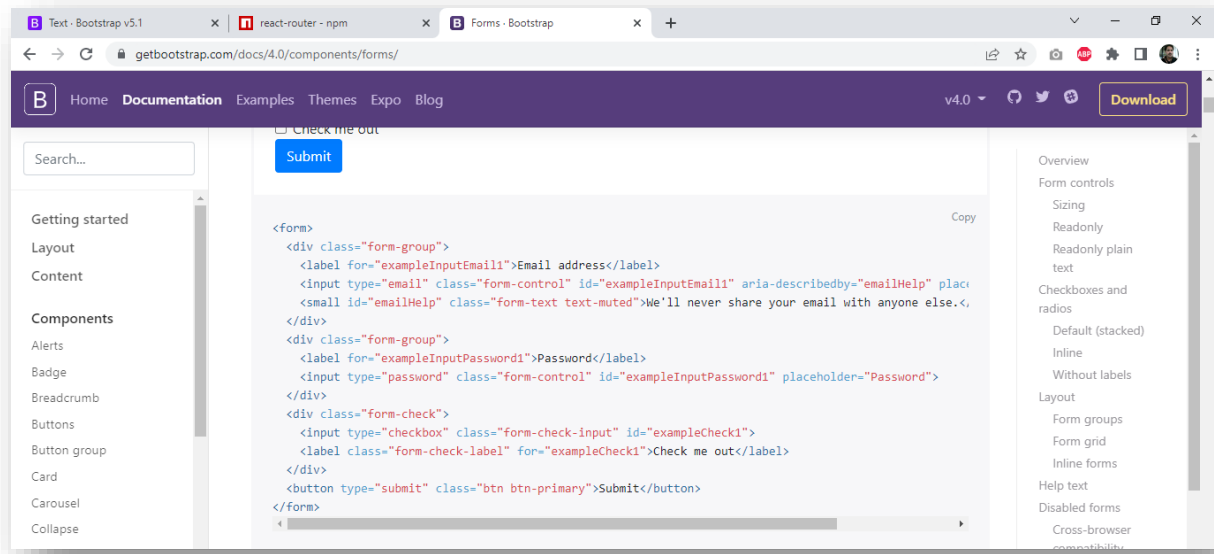


Now let's decorate your pages about, use dummy text  
**Ctrl+shift+P** and type lorem then enter



Now also decorate Contact page, just for formality add form from get bootstrap

<https://getbootstrap.com/docs/4.0/components/forms/>



## Contact.js

```
import React from "react";

const Contact = () => {
  return (
    <div className="container">
      <div className="py-4">
        <h1>Contact Page</h1>
        <form>
          <div class="form-group">
            <label for="exampleInputEmail1">Email address</label>
            <input
              type="email"
              class="form-control"
              id="exampleInputEmail1"
              aria-describedby="emailHelp"
              placeholder="Enter email"
            />
            <small id="emailHelp" class="form-text text-muted">
              We'll never share your email with anyone else.
            </small>
          </div>
          <div class="form-group">
            <label for="exampleInputPassword1">Password</label>
            <input
              type="password"
              class="form-control"
              id="exampleInputPassword1"
            />
          </div>
          <div class="form-check">
            <input type="checkbox" class="form-check-input" id="exampleCheck1" />
            <label class="form-check-label" for="exampleCheck1">Check me out</label>
          </div>
          <button type="submit" class="btn btn-primary">Submit</button>
        </form>
      </div>
    </div>
  );
};
```

```

        placeholder="Password"
      />
    </div>
    <div class="form-check">
      <input
        type="checkbox"
        class="form-check-input"
        id="exampleCheck1"
      />
      <label class="form-check-label" for="exampleCheck1">
        Check me out
      </label>
    </div>
    <button type="submit" class="btn btn-primary">
      Submit
    </button>
  </form>
</div>
</div>
);
};

export default Contact;

```

Now do following changes in the Navbar.js file. To click and highlighted on click

Do: import NavLink , class to rename with className

### Navbar.js

```

import React from "react";
import { Link, NavLink } from "react-router-dom";

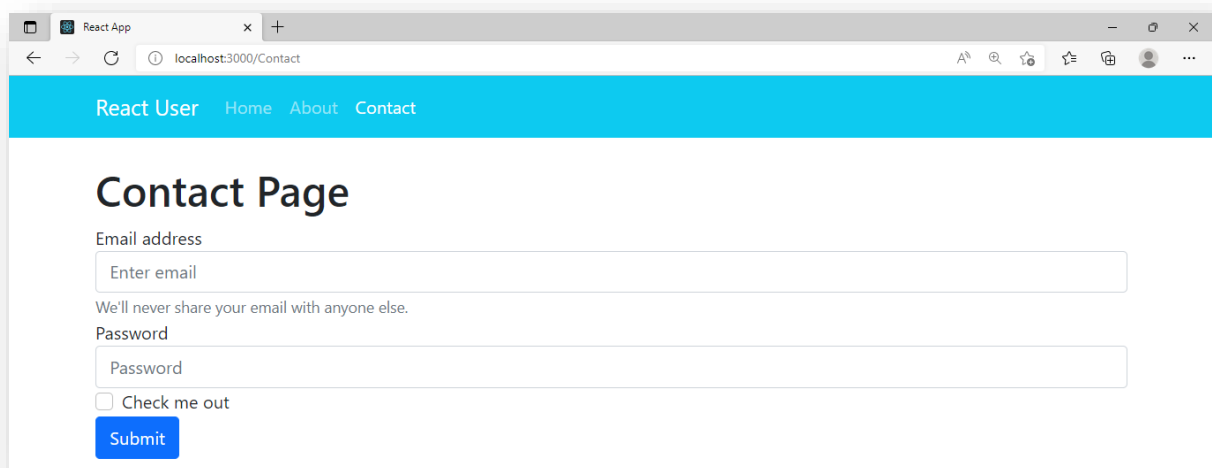
const Navbar = () => {
  return (
    <nav className="navbar navbar-expand-lg navbar-dark bg-info">
      <div className="container">
        <NavLink className="navbar-brand" to="/">
          React User
        </NavLink>
        <button
          className="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"

```

```

>
  <span className="navbar-toggler-icon"></span>
</button>
<div className="collapse navbar-collapse">
  <ul className="navbar-nav me-auto mb-2 mb-lg-0">
    <li className="nav-item">
      <NavLink className="nav-link" exact to="/">
        Home
      </NavLink>
    </li>
    <li className="nav-item">
      <NavLink className="nav-link" exact to="/About">
        About
      </NavLink>
    </li>
    <li className="nav-item">
      <NavLink className="nav-link" exact to="/Contact">
        Contact
      </NavLink>
    </li>
  </ul>
</div>
</div>
</nav>
);
};
export default Navbar;

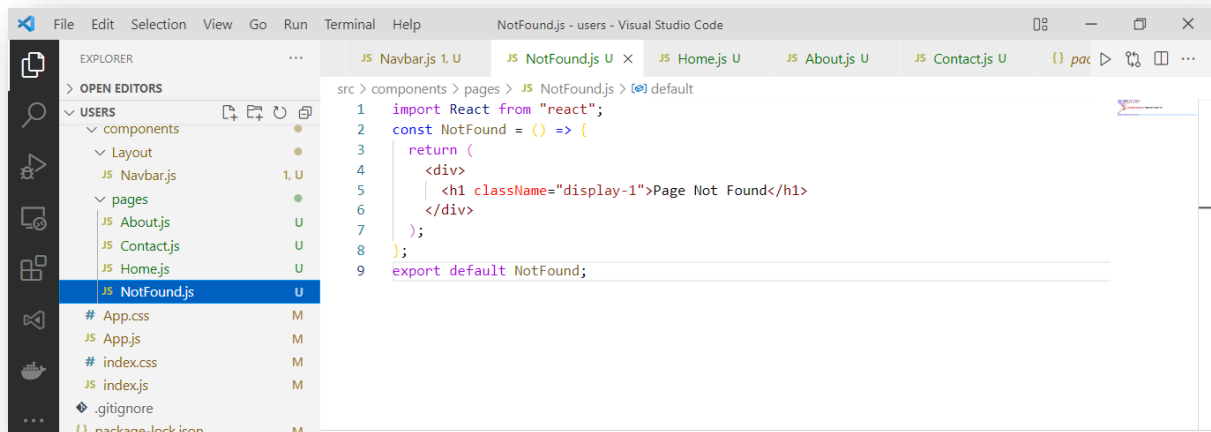
```



Now let's create Not found page in the pages folder, do the following

### NotFound.js

```
import React from "react";
const NotFound = () => {
  return (
    <div>
      <h1 className="display-1">Page Not Found</h1>
    </div>
  );
};
export default NotFound;
```



Now add in the route of App.js page

```
import "./App.css";
import "../node_modules/bootstrap/dist/css/bootstrap.css";
import Home from "../src/components/pages/Home";
import About from "../components/pages/About";
import Contact from "../components/pages/Contact";
import Navbar from "../components/Layout/Navbar";
import { BrowserRouter as Router, Switch, Route } from "react-router-dom";
import NotFound from "../components/pages/NotFound";

function App() {
  return (
    <Router>
      <div className="App">
        <Navbar />
        <Switch>
          <Route exact path="/" component={Home}/>
          <Route exact path="/about" component={About}/>
          <Route exact path="/contact" component={Contact}/>
          <Route exact path="/not-found" component={NotFound}/>
        </Switch>
      </div>
    </Router>
  );
}
```

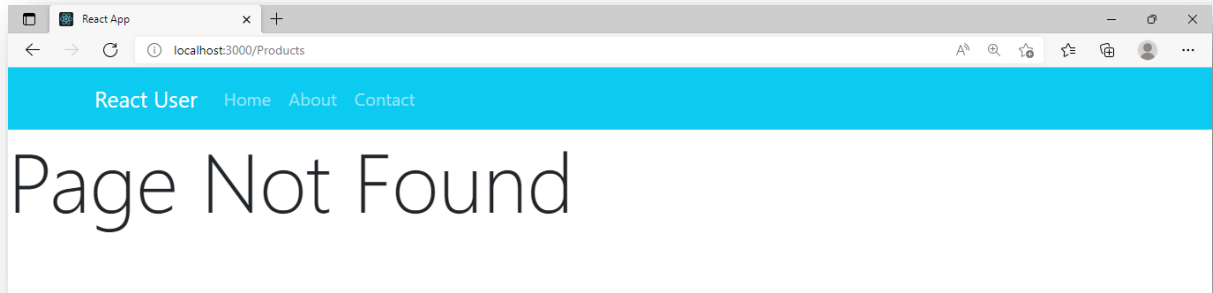


```

    <Route exact path="/about" component={About}/>
    <Route exact path="/Contact" component={Contact}/>
    <Route component={NotFound}/>
  </Switch>

</div>
</Router>
);
}
export default App;

```



**http://localhost:3000/Products**

Now not found page to be fully display on page for this do the following

Now do some changes in the **NotFound.js** page

```

import React from "react";

const NotFound = () => {
  return (
    <div className="not-found">
      <div>
        <h1 className="display-1">Page Not Found</h1>
      </div>
    </div>
  );
};
export default NotFound;

```

Now go to index.css page and do add following CSS

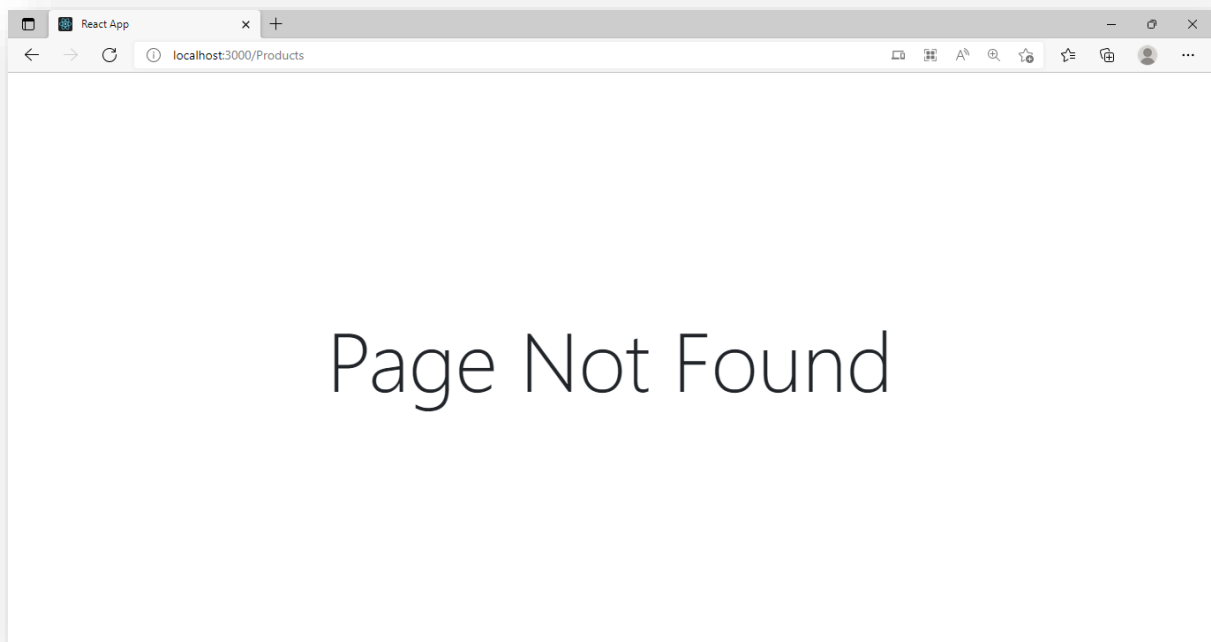
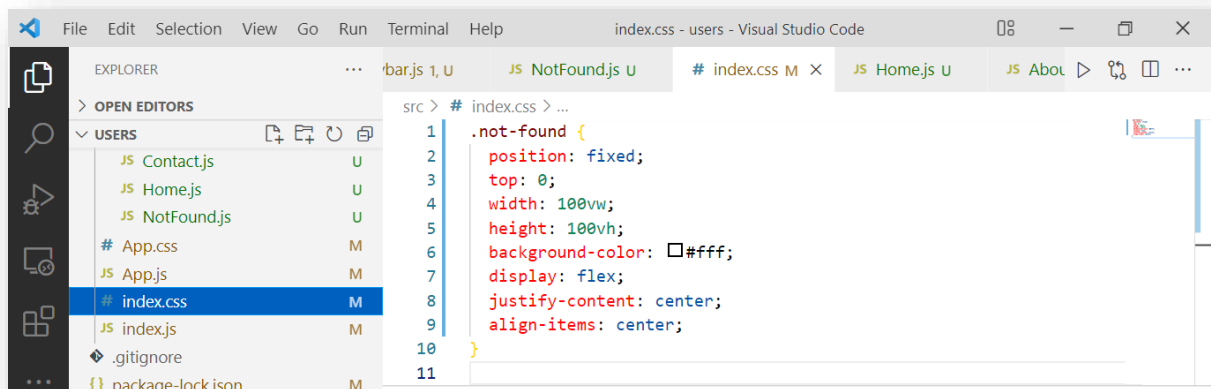
```

.not-found {
  position: fixed;
  top: 0;
  width: 100vw;
  height: 100vh;
  background-color: #fff;

  display: flex;
  justify-content: center;
  align-items: center;
}

```

## REACT.JS & JSON WEB SERVER WEBAPI



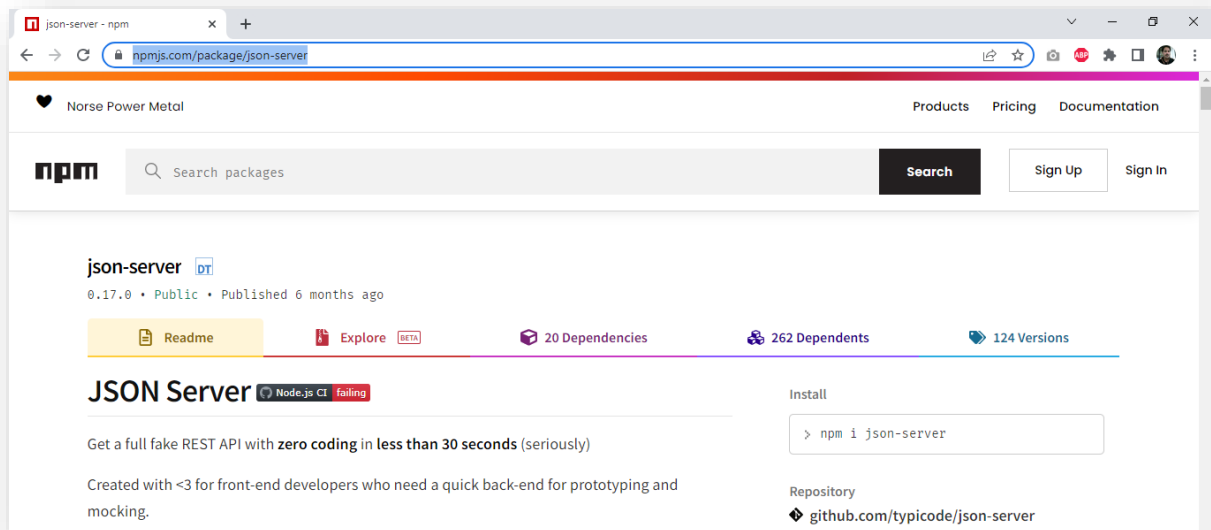
### Part 2: Create WEP-API and CRUD OPERATION

Now we have to create fake server for API.

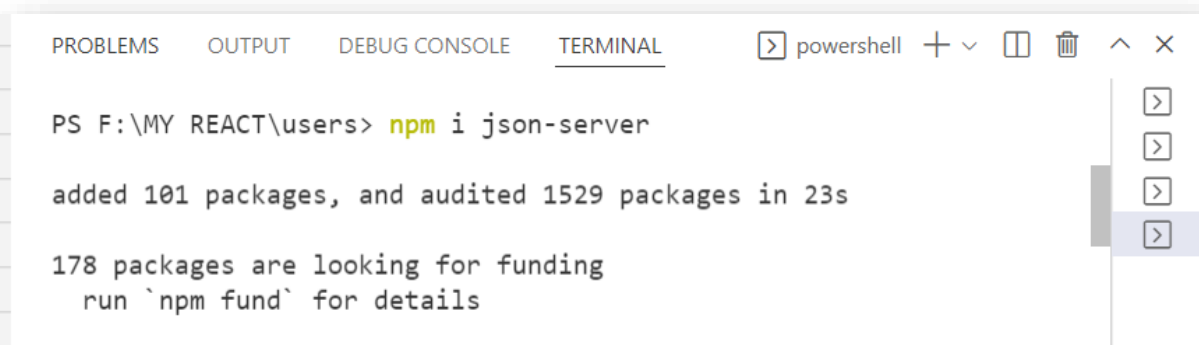
#### Step 1: Install json server

<https://www.npmjs.com/package/json-server>

## REACT.JS & JSON WEB SERVER WEBAPI



**npm i json-server**

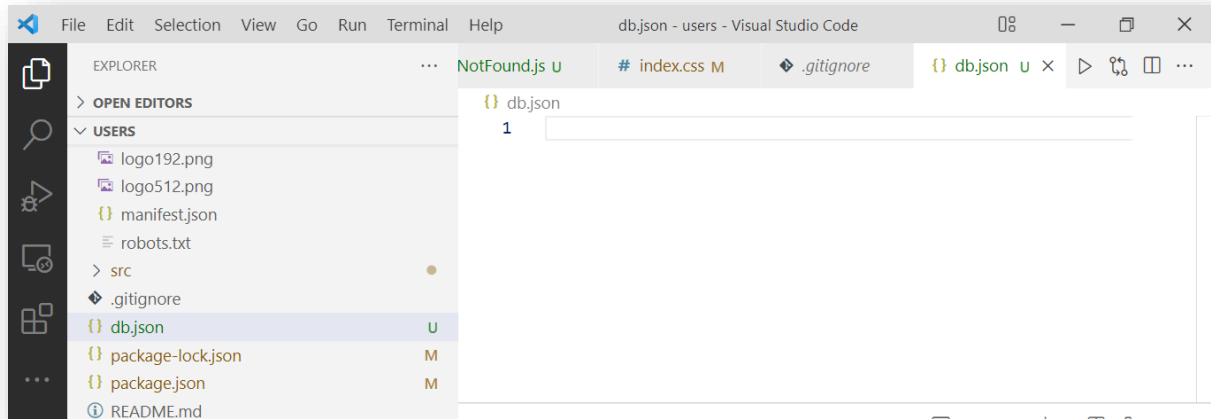


**Note: see the note**

**Step 2: Create a db.json file with some data**

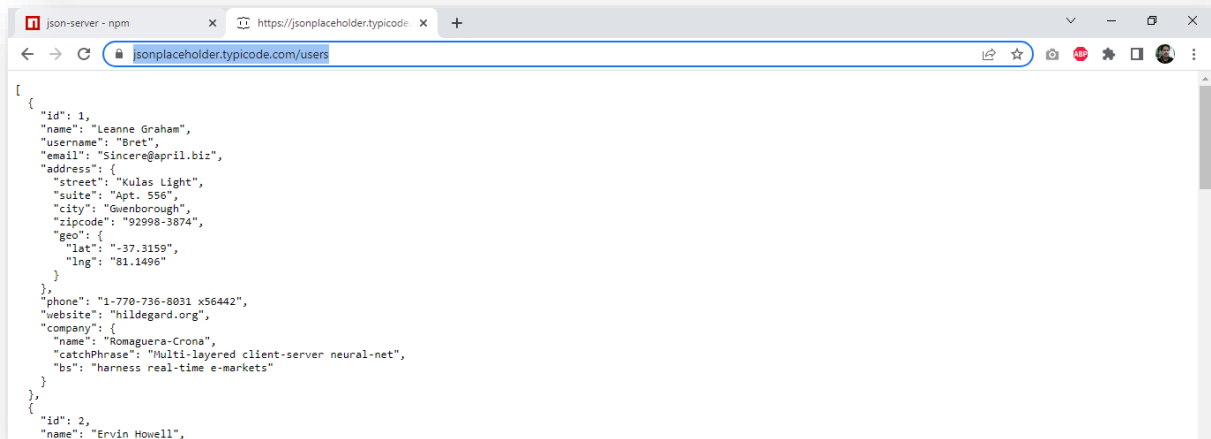


now create db. json outside of SRC folder



Step 3: Go to json place holder to get some dummy data.

<https://jsonplaceholder.typicode.com/users>



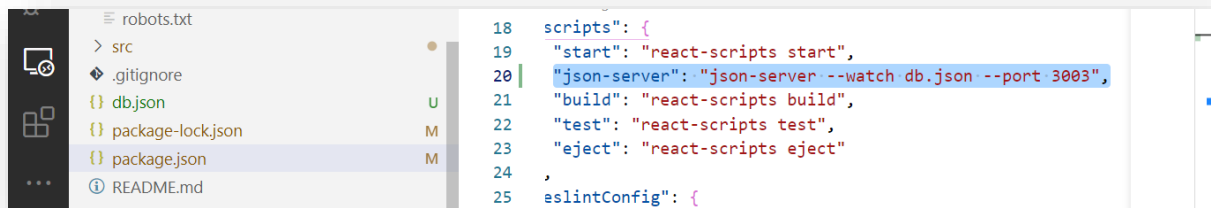
Now copy data and put into db.json file. First to follows tag and then paste. 10 user data

```
{
  "users": <paste here>
}
```

Step 4: configure json server to run concurrently, for that go to package. json and do the modification as follows.

Note: you can run application and json separately, to run concurrently we will do some more modification.

```
"json-server": "json-server --watch db.json --port 3003",
```



**Step5: run json server, write following command on terminal**

**npm run json-server**



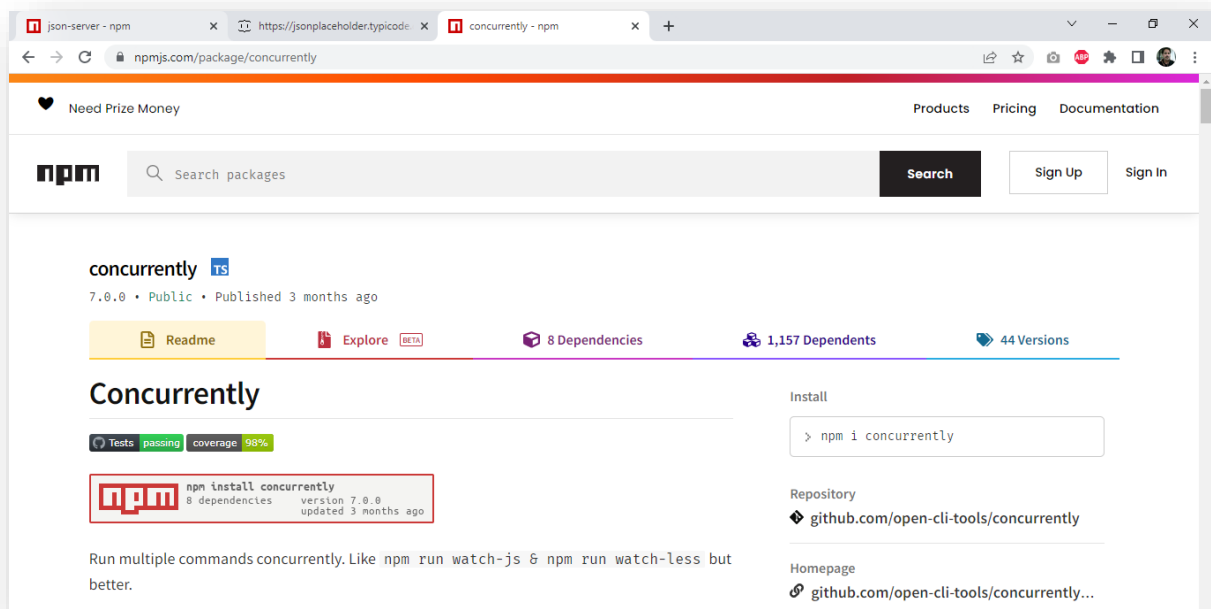
**localhost:3003/users**

```
[
  {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server neural-net",
      "bs": "harness real-time e-markets"
    }
  },
  {
    "id": 2,
    "name": "Ervin Howell",
    "username": "Antonette",
    "email": "Shanna@melissa.tv",
    "address": {
      "street": "Victor Plains",
      "suite": "Suite 879",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server neural-net",
      "bs": "harness real-time e-markets"
    }
  }
]
```

**Step 5: Now install package to run both applications concurrently**

**Note: see the document about the usage**

<https://www.npmjs.com/package/concurrently>



**npm i concurrently**

The screenshot shows a VS Code terminal window with the 'TERMINAL' tab selected. The terminal output is as follows:

```

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\MY REACT\users> npm i concurrently

added 13 packages, and audited 1542 packages in 2m

179 packages are looking for funding
  run `npm fund` for details

7 vulnerabilities (6 moderate, 1 high)

To address issues that do not require attention, run:
  npm audit fix
  
```

Now go to the package.json and do the modification as follows.

## Usage

Remember to surround separate commands with quotes:

```
concurrently "command1 arg" "command2 arg"
```

Otherwise **concurrently** would try to run 4 separate commands: `command1` , `arg` , `command2` , `arg` .

In package.json, escape quotes:

```
"start": "concurrently \"command1 arg\" \"command2 arg\""
```

**"start": "concurrently \"command1 arg\" \"command2 arg\""**

Change the name "start to something you can't have the same name. Currently here package name.

```
"scripts": {
  "start": "react-scripts start",
  "json-server": "json-server --watch db.json --port 3003",
  "start:dev": "concurrently \"npm start\" \"npm run json-server\"",
  "build": "react-scripts build",
  "test": "react-scripts test",
  "eject": "react-scripts eject"
},
```

**"start:dev": "concurrently \"npm start\" \"npm run json-server\"",**

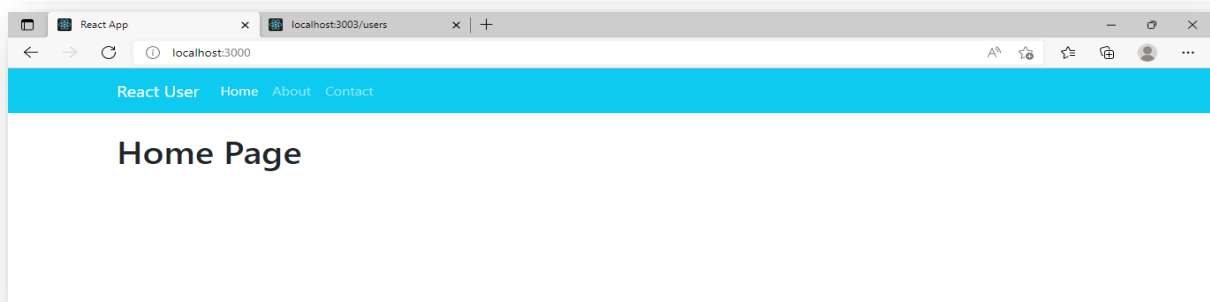
Step 6: Now run concurrently script

Note: same name of script to run **start:dev** what you have given

PS F:\MY REACT\users> **npm run start:dev**

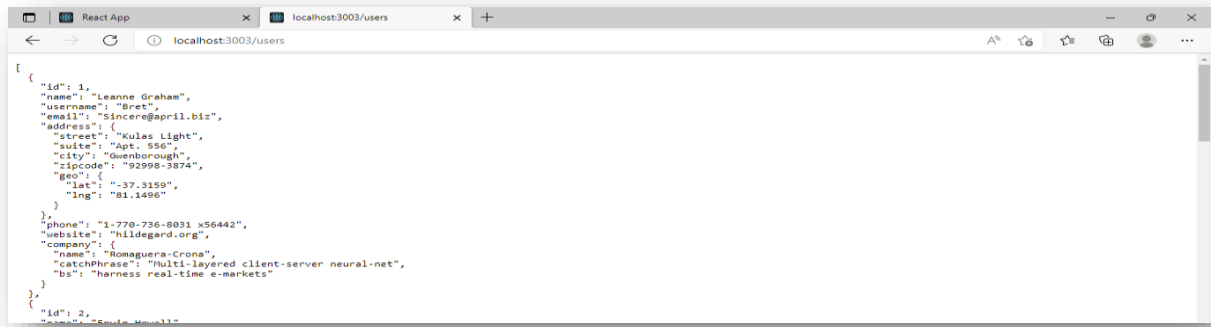
The screenshot shows the Visual Studio Code editor with the `package.json` file open. The `scripts` section is visible, containing the `start:dev` script. The terminal at the bottom shows the command `npm run start:dev` being executed, resulting in the output `users@0.1.0 start:dev`.

Check both servers are concurrently





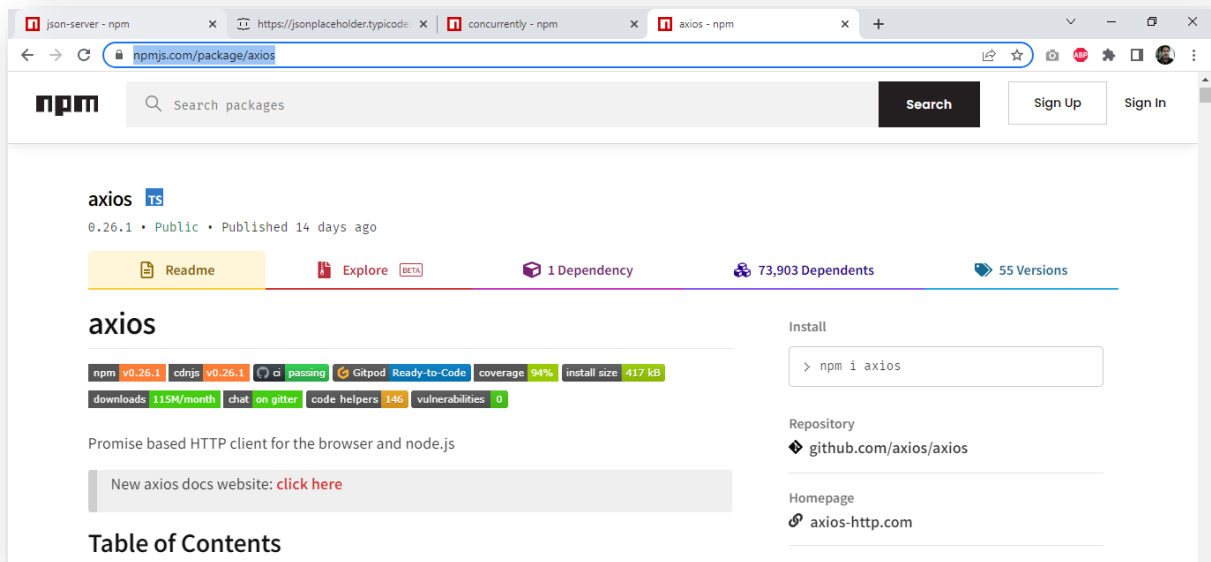
## REACT.JS & JSON WEB SERVER WEBAPI



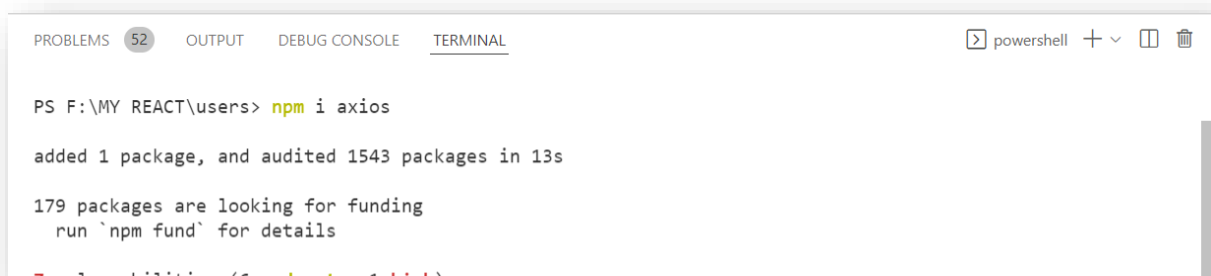
### Part 3: install Axios for composing get put post request.

Now install package Axios

<https://www.npmjs.com/package/axios>



**npm i axios**



Now we have to display data in home page. Do some the modification on Home.js file.

Please write the description about useState,useEffect

### Before

```
import React from "react";

const Home = () => {
  return (
    <div className="container">
      <div className="py-4">
        <h1>Home Page</h1>
      </div>
    </div>
  );
};
```

### After changes:

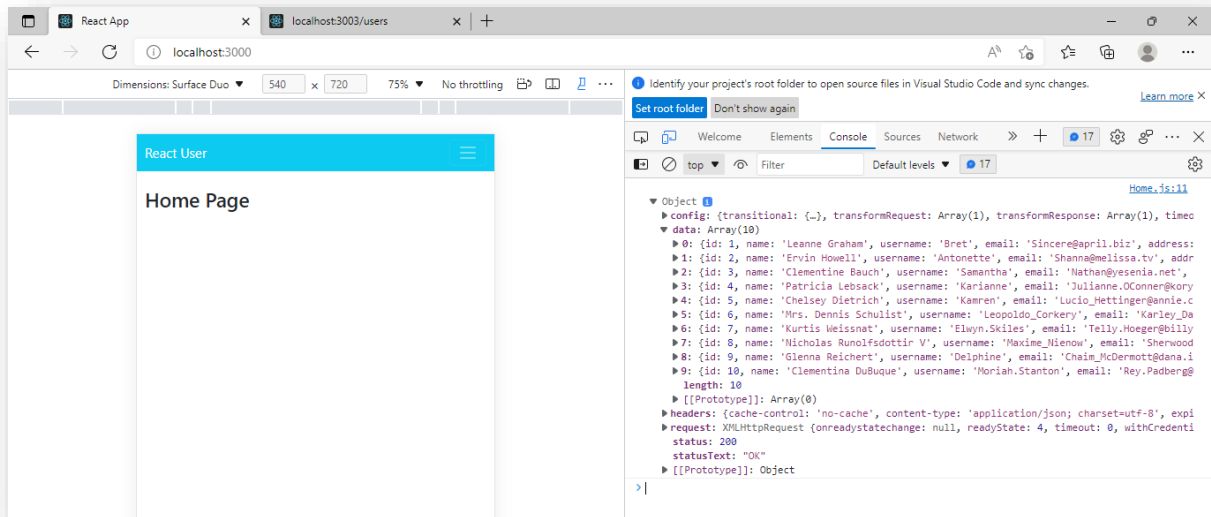
```
import React,{useState,useEffect} from "react";
import axios from "axios";

const Home = () => {
  const [users,setUser] = useState([]);
  useEffect(()=>{
    loadUsers();
  },[]);
  const loadUsers = async ()=>{
    const result = await axios.get("http://localhost:3003/users");
    console.log(result);
  };

  return (
    <div className="container">
      <div className="py-4">
        <h1>Home Page</h1>
      </div>
    </div>
  );
};

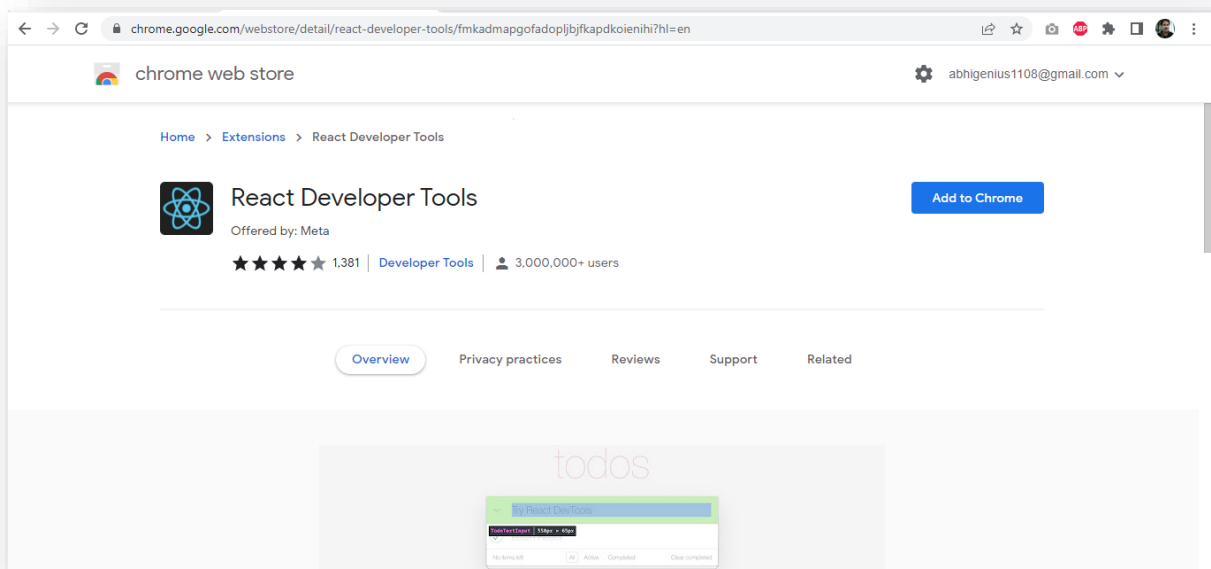
export default Home;
```

## REACT.JS & JSON WEB SERVER WEBAPI



POINT TO PONDER:

```
useEffect(()=>{  
  loadUsers();  
},[]); // why to give [] in this , is the way to define  
dependency. Other wise this loop will be executing  
infinitely.
```



Now do some modification in above code

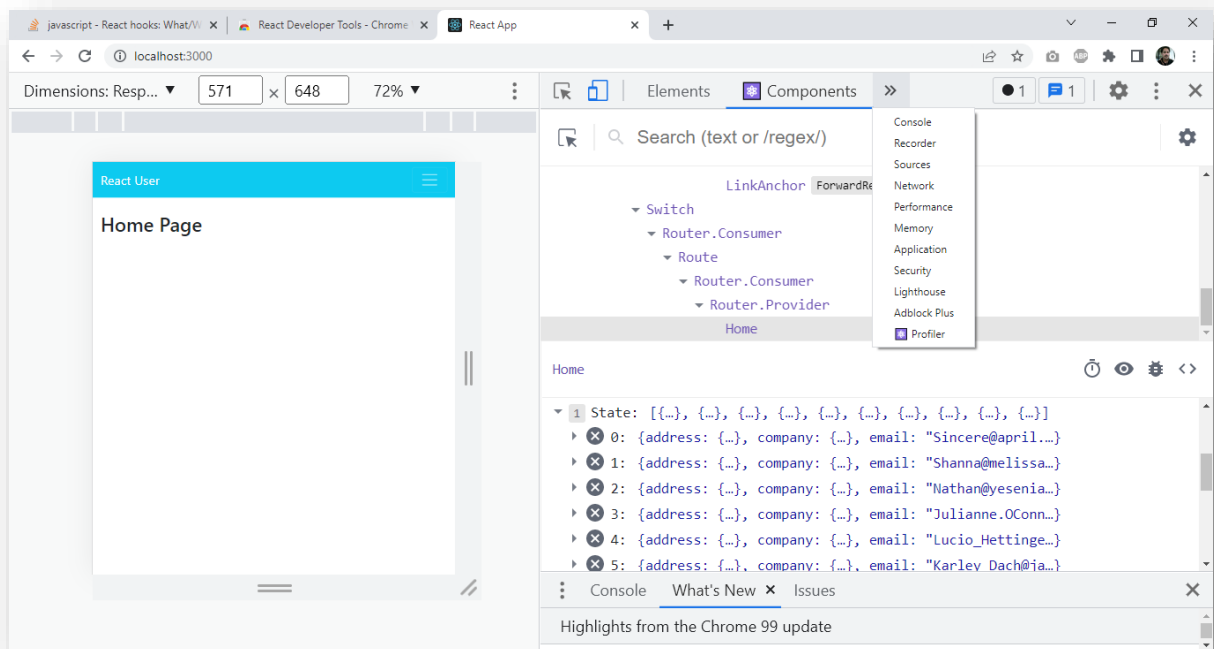
```
const loadUsers = async ()=>{
```

```
const result = await
axios.get("http://localhost:3003/users");
console.log(result);
};
```

Despite of showing result on con `console.log(result);`

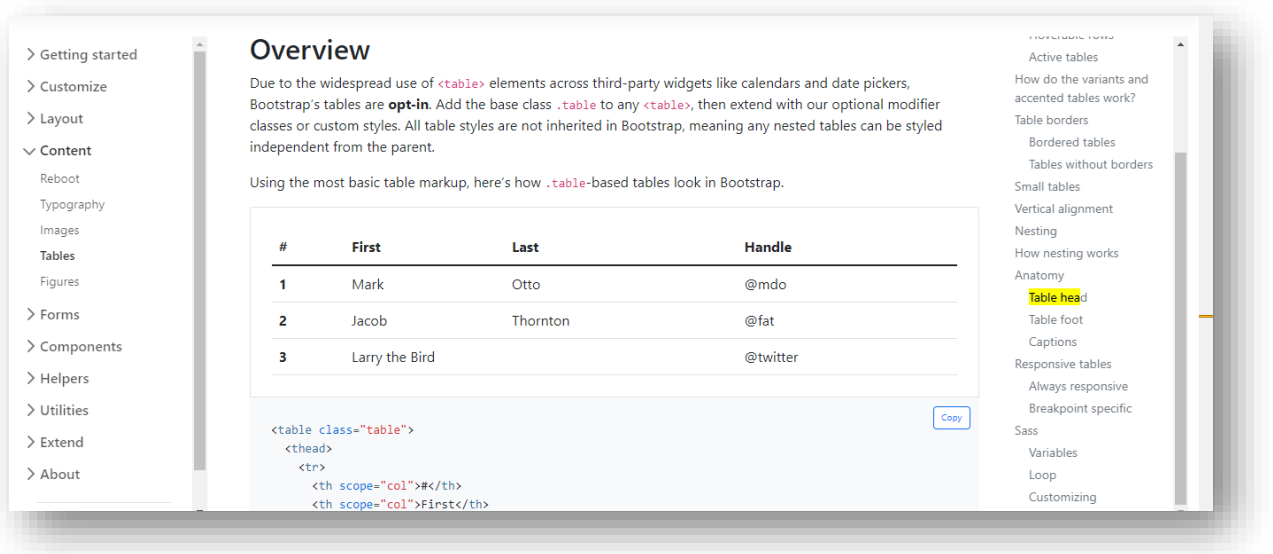
```
const loadUsers = async ()=>{
  const result = await
  axios.get("http://localhost:3003/users");
  setUser(result.data);
};
```

And see the data on google chrome.



Now we have display data into table, go to getbootstrap and copy any basic structure table.

<https://getbootstrap.com/docs/5.1/content/tables/>



Copy the basic structure and paste. After that the page code as follows and output

## Home.js

```
import React, { useState, useEffect } from "react";
import axios from "axios";

const Home = () => {
  const [users, setUser] = useState([]);
  useEffect(() => {
    loadUsers();
  }, []);
  const loadUsers = async () => {
    const result = await axios.get("http://localhost:3003/users");
    setUser(result.data);
  };

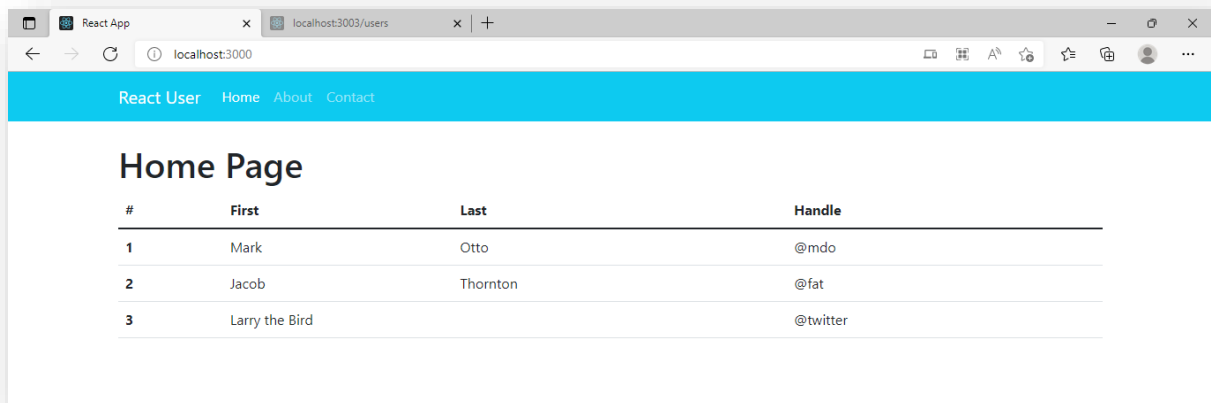
  return (
    <div className="container">
      <div className="py-4">
        <h1>Home Page</h1>
        <table class="table">
          <thead>
            <tr>
              <th scope="col">#</th>
              <th scope="col">First</th>
              <th scope="col">Last</th>
              <th scope="col">Handle</th>
            </tr>
          </thead>
          <tbody>
```

```

        <tr>
          <th scope="row">1</th>
          <td>Mark</td>
          <td>Otto</td>
          <td>@mdo</td>
        </tr>
        <tr>
          <th scope="row">2</th>
          <td>Jacob</td>
          <td>Thornton</td>
          <td>@fat</td>
        </tr>
        <tr>
          <th scope="row">3</th>
          <td colspan="2">Larry the Bird</td>
          <td>@twitter</td>
        </tr>
      </tbody>
    </table>
  </div>
</div>
);
};

```

```
export default Home;
```



Now do modification according to data manipulation. Modified code as follows:

Home.js

```

import React, { useState, useEffect } from "react";
import axios from "axios";
import { Link } from "react-router-dom";

```

```

const Home = () => {
  const [users, setUser] = useState([]);
  useEffect(() => {
    loadUsers();
  }, []);
  const loadUsers = async () => {
    const result = await axios.get("http://localhost:3003/users");
    setUser(result.data);
  };

  return (
    <div className="container">
      <div className="py-4">
        <h1>Home Page</h1>
        <table class="table border shadow">
          <thead class="table-dark">
            <tr>
              <th scope="col">#</th>
              <th scope="col">Name</th>
              <th scope="col">User Name</th>
              <th scope="col">Email</th>
              <th></th>
            </tr>
          </thead>
          <tbody>
            {
              users.map((user, index)=>(
                <tr><th scope="row">{index+1}</th>
                  <td>{user.name}</td>
                  <td>{user.username}</td>
                  <td>{user.email}</td>
                  <td>
                    <Link class="btn btn-primary mr-2">View</Link>
                    <Link class="btn btn-outline-primary mr-2">Edit</Link>
                    <Link class="btn btn-danger">Delete</Link>
                  </td>
                </tr>
              ))
            }
          </tbody>
        </table>
      </div>
    </div>
  );
};

export default Home;

```

Note: Add "Add User" button in NavBar.js This updated

```
import React from "react";
import { Link, NavLink } from "react-router-dom";

const Navbar = () => {
  return (
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
      <div className="container">
        <NavLink className="navbar-brand" to="/">
          React User
        </NavLink>
        <button
          className="navbar-toggler"
          type="button"
          data-toggle="collapse"
          data-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span className="navbar-toggler-icon"></span>
        </button>
        <div className="collapse navbar-collapse">
          <ul className="navbar-nav mr-auto mb-2 mb-lg-0">
            <li className="nav-item">
              <NavLink className="nav-link" exact to="/">
                Home
              </NavLink>
            </li>
            <li className="nav-item">
              <NavLink className="nav-link" exact to="/About">
                About
              </NavLink>
            </li>
            <li className="nav-item">
              <NavLink className="nav-link" exact to="/Contact">
                Contact
              </NavLink>
            </li>
          </ul>
          <form className="d-flex">
            <button className="btn btn-outline-light" type="submit">
              Add User
            </button>
          </form>
        </div>
      </div>
    </nav>
  );
}
```



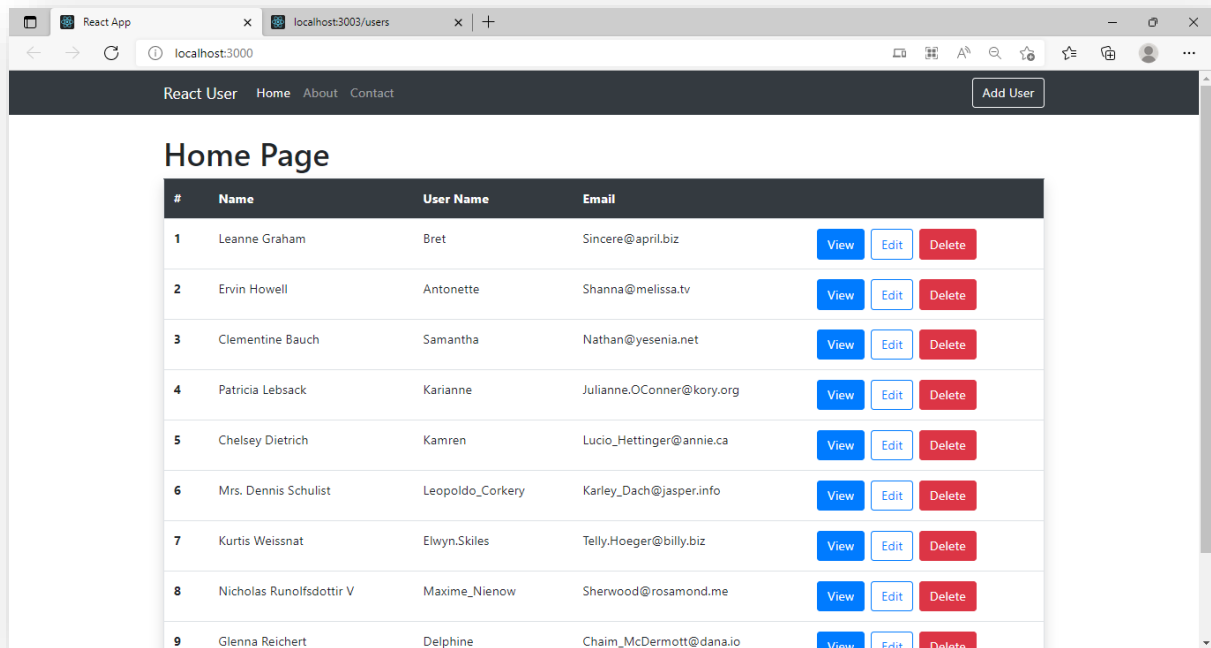
```

    </nav>
  );
};
export default NavBar;

```

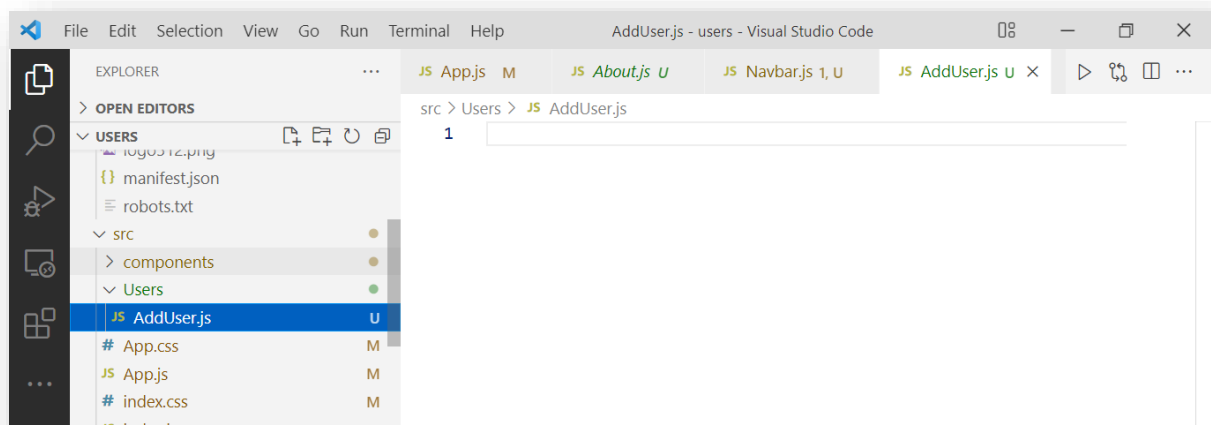
Note: If bootstrap not old version you want to install you can

```
npm i bootstrap@4.6.0
```



Part 4: Now we have to perform crud operation

Now first add User folder and inside it add component AddUser.js



### AddUser.js

```
import React from 'react'

export const AddUser = () => {
  return (
    <div>AddUser</div>
  )
}
```

Now define the route for AddUser in App.js do following

```
import { AddUser } from "../Users/AddUser";

<Switch>
  <Route exact path="/" component={Home}/>
  <Route exact path="/about" component={About}/>
  <Route exact path="/contact" component={Contact}/>
  <Route exact path="/users/add" component={AddUser}/>
  <Route component={NotFound}/>
</Switch>
```

Now do changes in Navbar.js

```
<form className="d-flex">
  <NavLink className="btn btn-outline-light" exact to="/users/add">
    Add User
  </NavLink>
</form>
```

Then final out put after defining route after clicking on button **AddUser**



Now add following code in AddUser to create Add user form

### AddUser.js

```
import React from "react";

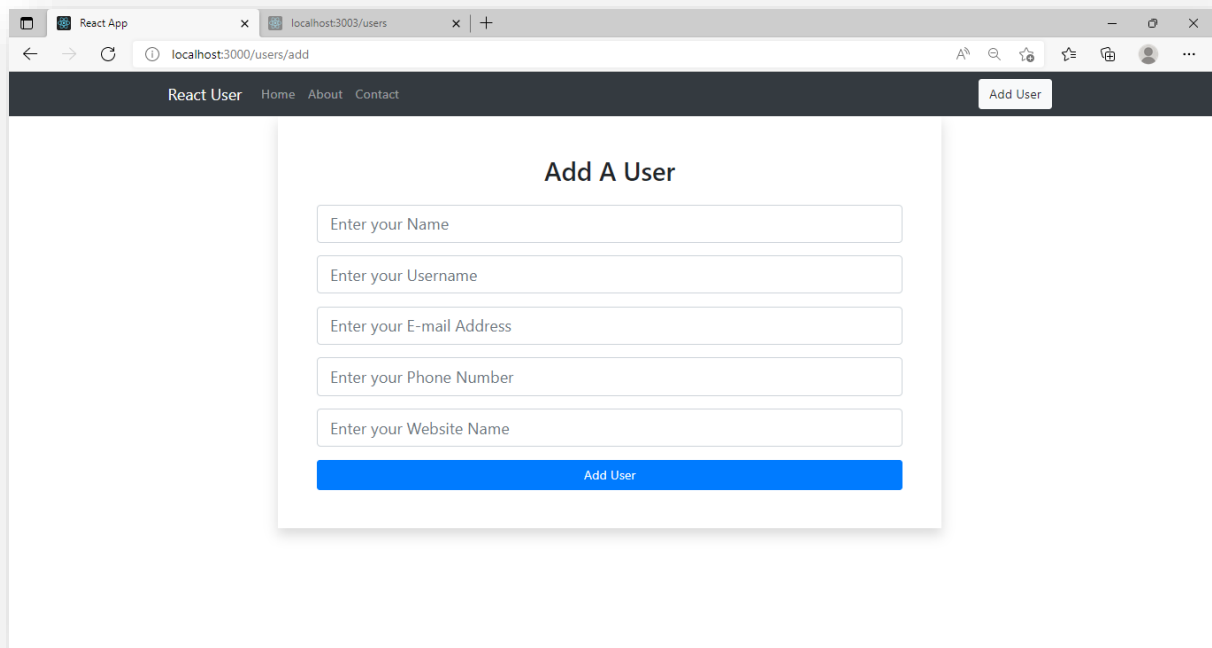
export const AddUser = () => {
  return (
    <div className="container">
      <div className="w-75 mx-auto shadow p-5">
        <h2 className="text-center mb-4">Add A User</h2>
      </div>
    </div>
  )
}
```

```

<form>
<div className="form-group">
  <input
    type="text"
    className="form-control form-control-lg"
    placeholder="Enter your Name"
    name="name"
  />
</div>
<div className="form-group">
  <input
    type="text"
    className="form-control form-control-lg"
    placeholder="Enter your Username"
    name="username"
  />
</div>
<div className="form-group">
  <input
    type="email"
    className="form-control form-control-lg"
    placeholder="Enter your E-mail Address"
    name="email"
  />
</div>
<div className="form-group">
  <input
    type="text"
    className="form-control form-control-lg"
    placeholder="Enter your Phone Number"
    name="phone"
  />
</div>
<div className="form-group">
  <input
    type="text"
    className="form-control form-control-lg"
    placeholder="Enter your Website Name"
    name="website"
  />
</div>
<button className="btn btn-primary btn-block">Add User</button>
</form>
</div>
</div>
);
};

```

Output:



Now do the following changes

**AddUser.js**

```
import React, { useState } from "react";

export const AddUser = () => {
  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });

  const {name,username,email,phone,website} = user;
  const onChange = e => {
    console.log(e.target.value);
  }

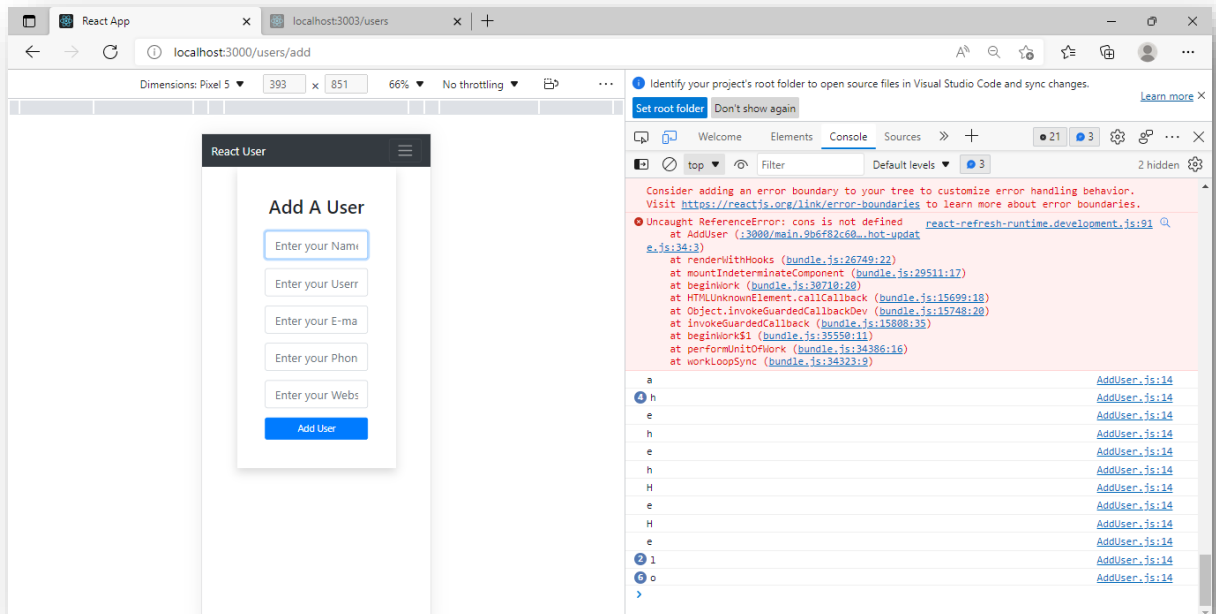
  return (
    <div className="container">
      <div className="w-75 mx-auto shadow p-5">
        <h2 className="text-center mb-4">Add A User</h2>
        <form>
          <div className="form-group">
            <input
              type="text"
            />
          </div>
        </form>
      </div>
    </div>
  );
}
```

```

        className="form-control form-control-lg"
        placeholder="Enter your Name"
        name="name" value={name}
        onChange={e=>onInputChange(e)}
    />
</div>
<div className="form-group">
    <input
        type="text"
        className="form-control form-control-lg"
        placeholder="Enter your Username"
        name="username" value={username}
        onChange={e=>onInputChange(e)}
    />
</div>
<div className="form-group">
    <input
        type="email"
        className="form-control form-control-lg"
        placeholder="Enter your E-mail Address"
        name="email" value={email}
        onChange={e=>onInputChange(e)}
    />
</div>
<div className="form-group">
    <input
        type="text"
        className="form-control form-control-lg"
        placeholder="Enter your Phone Number"
        name="phone" value={phone}
        onChange={e=>onInputChange(e)}
    />
</div>
<div className="form-group">
    <input
        type="text"
        className="form-control form-control-lg"
        placeholder="Enter your Website Name"
        name="website" value={website}
        onChange={e=>onInputChange(e)}
    />
</div>
    <button className="btn btn-primary btn-block">Add User</button>
</form>
</div>
</div>
);
};

```

Now after the you notice, when you type any text its not typing but it showing on console.



Now add the following code to save the changes, modified in the **onInputChange**.

```
const onInputChange = e => {
  //console.log(e.target.value);
  setUser({...user,[e.target.name]:e.target.value})
}
```

**Final code:**

```
import React, { useState } from "react";
export const AddUser = () => {
  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });
  const {name,username,email,phone,website} = user;
  const onInputChange = e => {
    //console.log(e.target.value);
    setUser({...user,[e.target.name]:e.target.value})
  }
  return (
```

```

<div className="container">
  <div className="w-75 mx-auto shadow p-5">
    <h2 className="text-center mb-4">Add A User</h2>
    <form>
      <div className="form-group">
        <input
          type="text"
          className="form-control form-control-lg"
          placeholder="Enter your Name"
          name="name" value={name}
          onChange={e=>onInputChange(e)}
        />
      </div>
      <div className="form-group">
        <input
          type="text"
          className="form-control form-control-lg"
          placeholder="Enter your Username"
          name="username" value={username}
          onChange={e=>onInputChange(e)}
        />
      </div>
      <div className="form-group">
        <input
          type="email"
          className="form-control form-control-lg"
          placeholder="Enter your E-mail Address"
          name="email" value={email}
          onChange={e=>onInputChange(e)}
        />
      </div>
      <div className="form-group">
        <input
          type="text"
          className="form-control form-control-lg"
          placeholder="Enter your Phone Number"
          name="phone" value={phone}
          onChange={e=>onInputChange(e)}
        />
      </div>
      <div className="form-group">
        <input
          type="text"
          className="form-control form-control-lg"
          placeholder="Enter your Website Name"
          name="website" value={website}
          onChange={e=>onInputChange(e)}
        />
      </div>
    </form>
  </div>
</div>

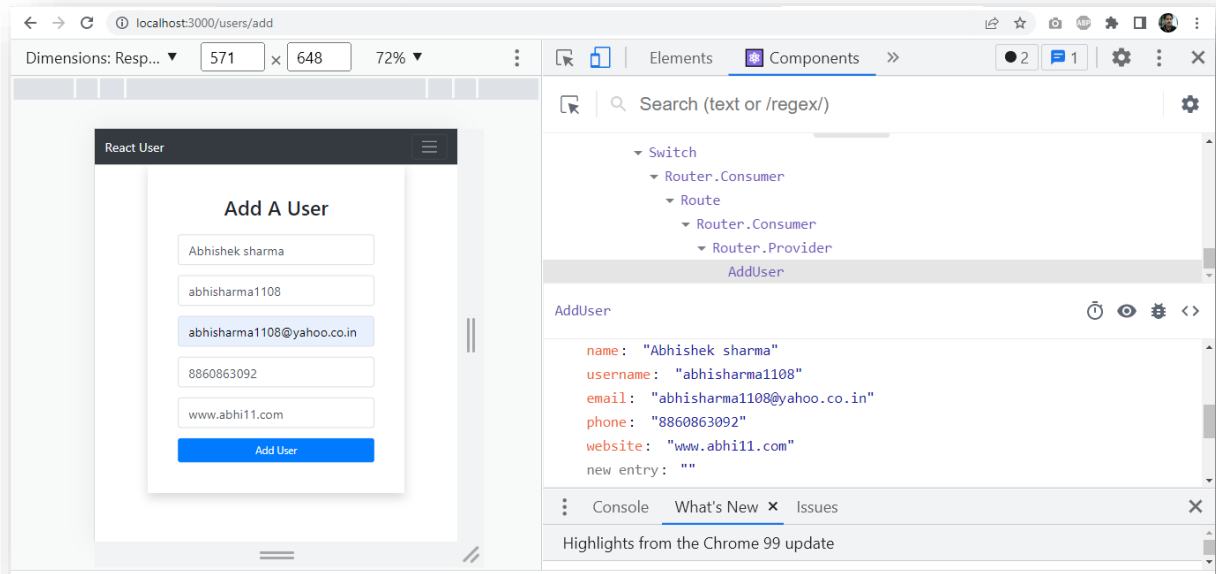
```

```

    </div>
    <button className="btn btn-primary btn-block">Add User</button>
  </form>
</div>
</div>
</div>
);
};

```

**Output: Use react developer tool to see on chrome.**



**Now the final updated code of Add User as follows**

```

import React, { useState } from "react";
import axios, { Axios } from "axios";
import { useHistory } from "react-router-dom";

export const AddUser = () => {
  let history = useHistory();
  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });

  const { name, username, email, phone, website } = user;
  const onChange = (e) => {
    //console.log(e.target.value);
    setUser({ ...user, [e.target.name]: e.target.value });
  };
  const onSubmit = async e =>{

```



```

    e.preventDefault();
    await axios.post("http://localhost:3003/users",user);
    history.push("/");
  }
  return (
    <div className="container">
      <div className="w-75 mx-auto shadow p-5">
        <h2 className="text-center mb-4">Add A User</h2>
        <form onSubmit={e=> onSubmit(e)}>
          <div className="form-group">
            <input
              type="text"
              className="form-control form-control-lg"
              placeholder="Enter your Name"
              name="name"
              value={name}
              onChange={(e) => onInputChange(e)}
            />
          </div>
          <div className="form-group">
            <input
              type="text"
              className="form-control form-control-lg"
              placeholder="Enter your Username"
              name="username"
              value={username}
              onChange={(e) => onInputChange(e)}
            />
          </div>
          <div className="form-group">
            <input
              type="email"
              className="form-control form-control-lg"
              placeholder="Enter your E-mail Address"
              name="email"
              value={email}
              onChange={(e) => onInputChange(e)}
            />
          </div>
          <div className="form-group">
            <input
              type="text"
              className="form-control form-control-lg"
              placeholder="Enter your Phone Number"
              name="phone"
              value={phone}
              onChange={(e) => onInputChange(e)}
            />
          </div>
        </form>
      </div>
    </div>
  );
}

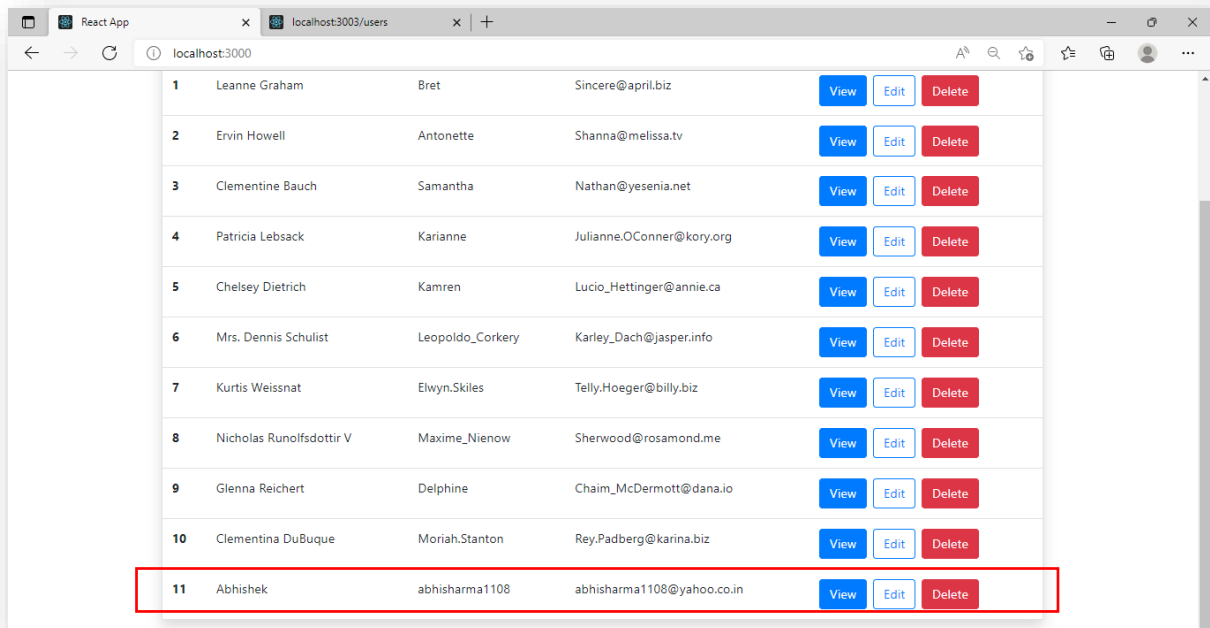
```

```

    </div>
    <div className="form-group">
      <input
        type="text"
        className="form-control form-control-lg"
        placeholder="Enter your Website Name"
        name="website"
        value={website}
        onChange={(e) => onInputChange(e)}
      />
    </div>
    <button className="btn btn-primary btn-block">Add User</button>
  </form>
</div>
</div>
);
};

```

And after Add user data page will redirect to home page.



1	Leanne Graham	Bret	Sincere@april.biz	View	Edit	Delete
2	Ervin Howell	Antonette	Shanna@melissa.tv	View	Edit	Delete
3	Clementine Bauch	Samantha	Nathan@yesenia.net	View	Edit	Delete
4	Patricia Lebsack	Karianne	Julianne.OConner@kory.org	View	Edit	Delete
5	Chelsey Dietrich	Kamren	Lucio_Hettinger@annie.ca	View	Edit	Delete
6	Mrs. Dennis Schulist	Leopoldo_Corkery	Karley_Dach@jasper.info	View	Edit	Delete
7	Kurtis Weissnat	Elwyn.Skiles	Telly.Hoeger@billy.biz	View	Edit	Delete
8	Nicholas Runolfsdottir V	Maxime_Nienow	Sherwood@rosamond.me	View	Edit	Delete
9	Glenna Reichert	Delphine	Chaim_McDermott@dana.io	View	Edit	Delete
10	Clementina DuBuque	Moriah.Stanton	Rey.Padberg@karina.biz	View	Edit	Delete
11	Abhishek	abhisharma1108	abhisharma1108@yahoo.co.in	View	Edit	Delete

And also showing in the api.

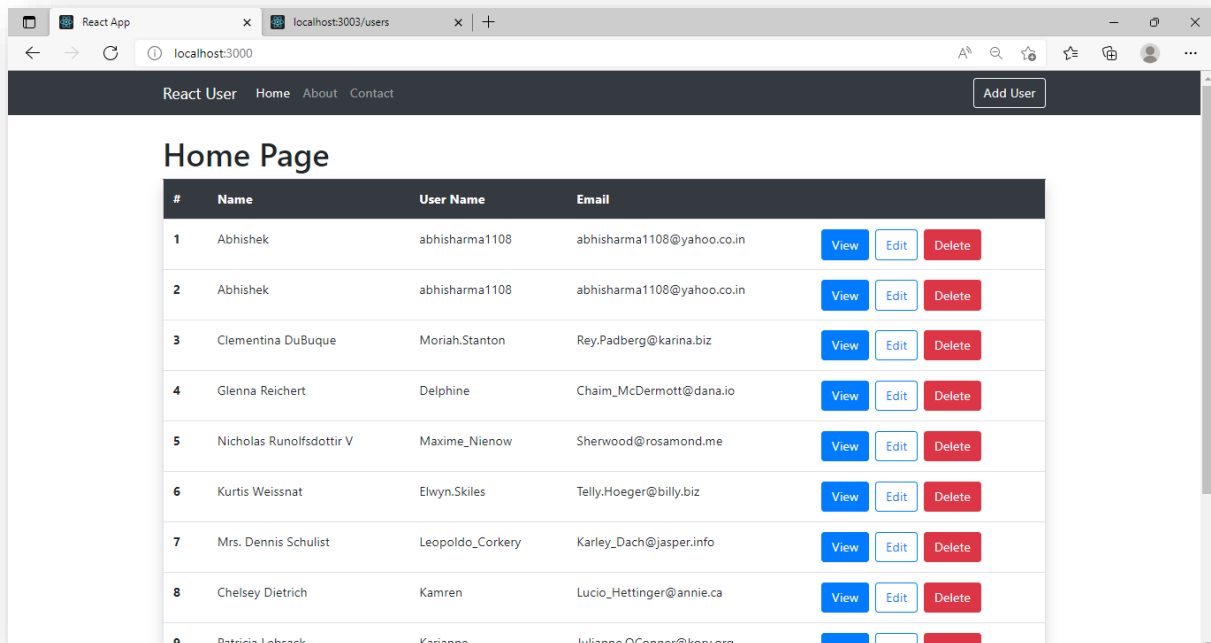
```

},
{
  "name": "Abhishek",
  "username": "abhisharma1108",
  "email": "abhisharma1108@yahoo.co.in",
  "phone": "886863892",
  "website": "www.abhi11.com",
  "id": 11
},
{
  "name": "Abhishek",
  "username": "abhisharma1108",
  "email": "abhisharma1108@yahoo.co.in",
  "phone": "886863892",
  "website": "www.abhi11.com",
  "id": 12
}
]

```

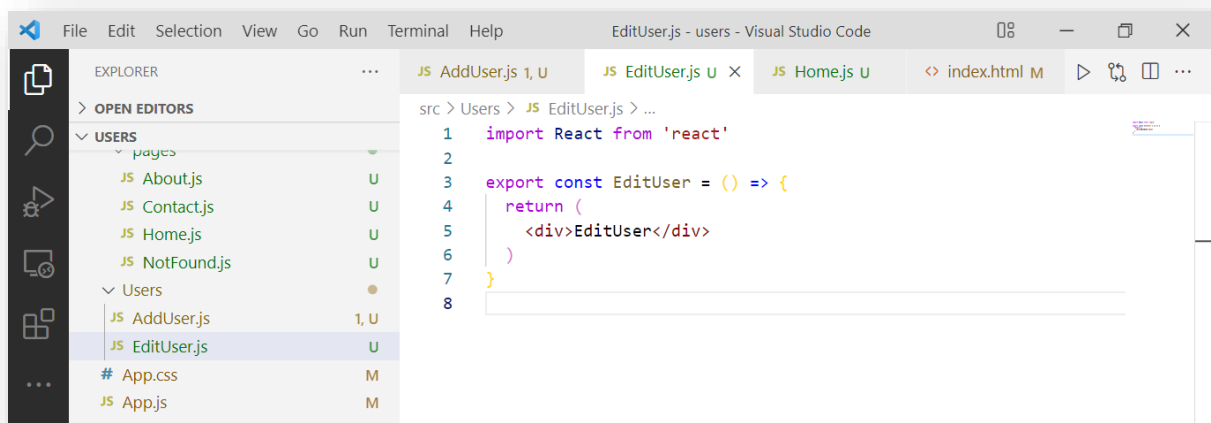
Now if you want to display data in reverse order use array method in **Home.js** page code as follows

```
const loadUsers = async () => {
  const result = await axios.get("http://localhost:3003/users");
  setUser(result.data.reverse());
};
```



Now we have **Edit user data.**

Add **EditUser.js** in user folder and create a component and add in the App.js as routing and check.



## EditUser.js

```
import React from 'react'

export const EditUser = () => {
  return (
    <div>EditUser</div>
  )
}
```

## App.js

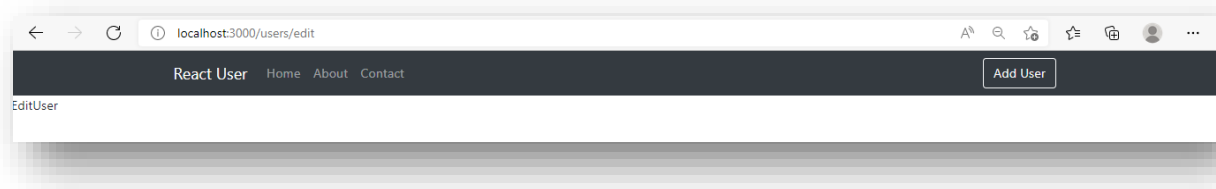
```
import { EditUser } from "../Users/EditUser";

<Switch>
  <Route exact path="/" component={Home}/>
  <Route exact path="/about" component={About}/>
  <Route exact path="/contact" component={Contact}/>
  <Route exact path="/users/add" component={AddUser}/>
  <Route exact path="/users/edit" component={EditUser}/>
  <Route component={NotFound}/>
</Switch>
```

## Home.js

```
<Link class="btn btn-primary mr-2">View</Link>
<Link class="btn btn-outline-primary mr-2" exact to="/users/edit">Edit</Link>
<Link class="btn btn-danger">Delete</Link>
```

## Final output on edit button click



Edit code almost similar to AddUser (post)

Now following changes page by page final code as follows

## EditUser.js

```
import React, { useEffect, useState } from "react";
import axios, { Axios } from "axios";
import { useHistory, useParams } from "react-router-dom";

export const EditUser = () => {
  let history = useHistory();
  const { id } = useParams();
  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });

  const { name, username, email, phone, website } = user;
  const onChange = (e) => {
    //console.log(e.target.value);
    setUser({ ...user, [e.target.name]: e.target.value });
  };
  useEffect(() => {
    loadUser();
  }, []);
  const onSubmit = async e => {
    e.preventDefault();
    await axios.put(`http://localhost:3003/users/${id}`, user);
    history.push("/");
  }
  const loadUser = async () => {
    const result = await axios.get(`http://localhost:3003/users/${id}`);
    setUser(result.data);
  }
  return (
    <div className="container">
      <div className="w-75 mx-auto shadow p-5">
        <h2 className="text-center mb-4">Edit A User</h2>
        <form onSubmit={e => onSubmit(e)}>
          <div className="form-group">
            <input
              type="text"
              className="form-control form-control-lg"
              placeholder="Enter your Name"
              name="name"
              value={name}
              onChange={(e) => onChange(e)}
            />
          </div>
        </form>
      </div>
    </div>
  );
}
```

```

    />
  </div>
  <div className="form-group">
    <input
      type="text"
      className="form-control form-control-lg"
      placeholder="Enter your Username"
      name="username"
      value={username}
      onChange={(e) => onInputChange(e)}
    />
  </div>
  <div className="form-group">
    <input
      type="email"
      className="form-control form-control-lg"
      placeholder="Enter your E-mail Address"
      name="email"
      value={email}
      onChange={(e) => onInputChange(e)}
    />
  </div>
  <div className="form-group">
    <input
      type="text"
      className="form-control form-control-lg"
      placeholder="Enter your Phone Number"
      name="phone"
      value={phone}
      onChange={(e) => onInputChange(e)}
    />
  </div>
  <div className="form-group">
    <input
      type="text"
      className="form-control form-control-lg"
      placeholder="Enter your Website Name"
      name="website"
      value={website}
      onChange={(e) => onInputChange(e)}
    />
  </div>
  <button className="btn btn-warning btn-block">Update User</button>
</form>
</div>
</div>
);

```

```
};
```

## Home.js

```
<Link class="btn btn-primary mr-2">View</Link>
<Link class="btn btn-outline-primary mr-2" exact
to={` /users/edit/${user.id}`}>
Edit</Link>
<Link class="btn btn-danger">Delete</Link>
```

## App.js

```
<Switch>
  <Route exact path="/" component={Home}/>
  <Route exact path="/about" component={About}/>
  <Route exact path="/contact" component={Contact}/>
  <Route exact path="/users/add" component={AddUser}/>
  <Route exact path="/users/edit/:id" component={EditUser}/>
  <Route component={NotFound}/>
</Switch>
```

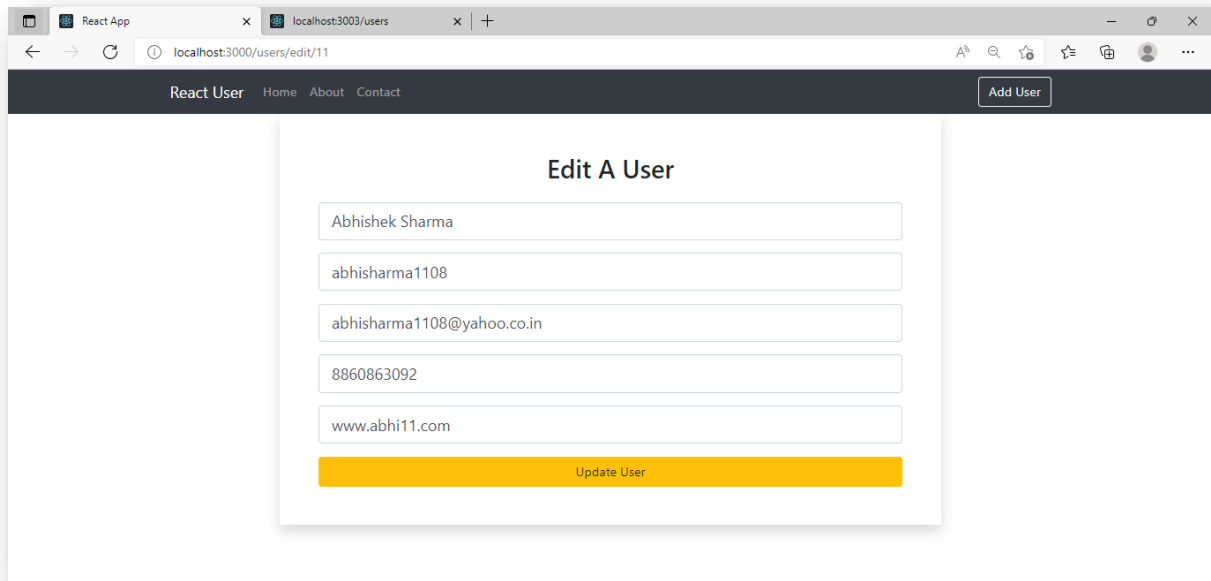
## Final Output

1	Abhishek Sharma	abhisharma1108	abhisharma1108@yahoo.co.in	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
2	Abhishek	abhisharma1108	abhisharma1108@yahoo.co.in	<a href="#">View</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

The screenshot shows a web browser at localhost:3000/users/edit/11. The page has a dark header with 'React User' and navigation links 'Home', 'About', 'Contact', and an 'Add User' button. The main content area displays a form titled 'Edit A User' with the following fields:

- Name: Abhishek
- Username: abhisharma1108
- Email: abhisharma1108@yahoo.co.in
- Phone Number: 8860863092
- Website: www.abhi11.com

At the bottom of the form is a yellow 'Update User' button.



## Home Page

#	Name	User Name	Email	
1	Abhishek Sharma	abhisharma1108	abhisharma1108@yahoo.co.in	<button>View</button> <button>Edit</button> <button>Delete</button>
2	Abhishek sharma	abhisharma1108	abhisharma1108@yahoo.co.in	<button>View</button> <button>Edit</button> <button>Delete</button>
3	Clementina DuBuque	Moriah.Stanton	Rey.Padberg@karina.biz	<button>View</button> <button>Edit</button> <button>Delete</button>

Now we have to **delete User**, for this do the following changes in the Home.js page, create one anonymous function **deleteuser()** and on click of delete button call this method, final code as following

### Home.js

```
import React, { useState, useEffect } from "react";
import axios from "axios";
import { Link } from "react-router-dom";

const Home = () => {
  const [users, setUser] = useState([]);

  useEffect(() => {
    loadUsers();
  }, []);

  const loadUsers = async () => {
    const result = await axios.get("http://localhost:3003/users");
    setUser(result.data.reverse());
  };
};
```



```

};
const deleteUser = async id => {
  //console.log(`${id}`);
  await axios.delete(`http://localhost:3003/users/${id}`);
  loadUsers();
};

return (
  <div className="container">
    <div className="py-4">
      <h1>Home Page</h1>
      <table class="table border shadow">
        <thead class="table-dark">
          <tr>
            <th scope="col">#</th>
            <th scope="col">Name</th>
            <th scope="col">User Name</th>
            <th scope="col">Email</th>
            <th></th>
          </tr>
        </thead>
        <tbody>
          {users.map((user, index) => (
            <tr>
              <th scope="row">{index + 1}</th>
              <td>{user.name}</td>
              <td>{user.username}</td>
              <td>{user.email}</td>
              <td>
                <Link class="btn btn-primary mr-2">View</Link>
                <Link
                  class="btn btn-outline-primary mr-2"
                  exact
                  to={`/users/edit/${user.id}`}
                >
                  Edit
                </Link>
                <Link
                  class="btn btn-danger"
                  onClick={() => deleteUser(user.id)}>
                  Delete
                </Link>
              </td>
            </tr>
          ))}
        </tbody>
      </table>
    </div>
  </div>

```

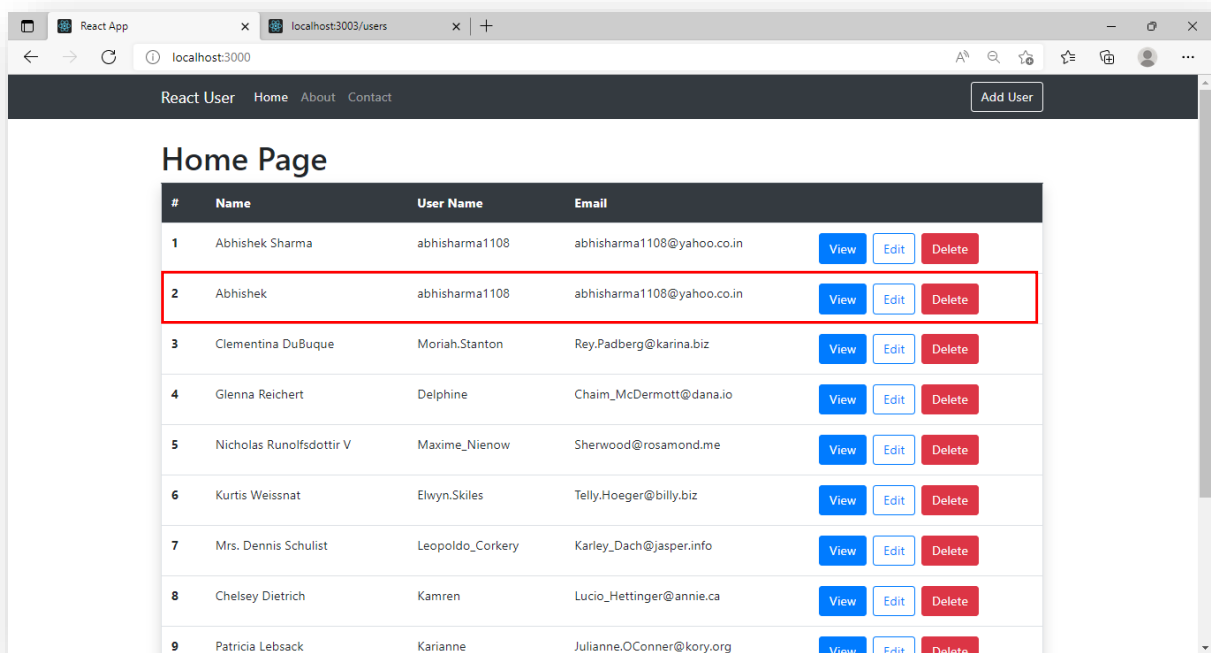
```

    </div>
  );
};

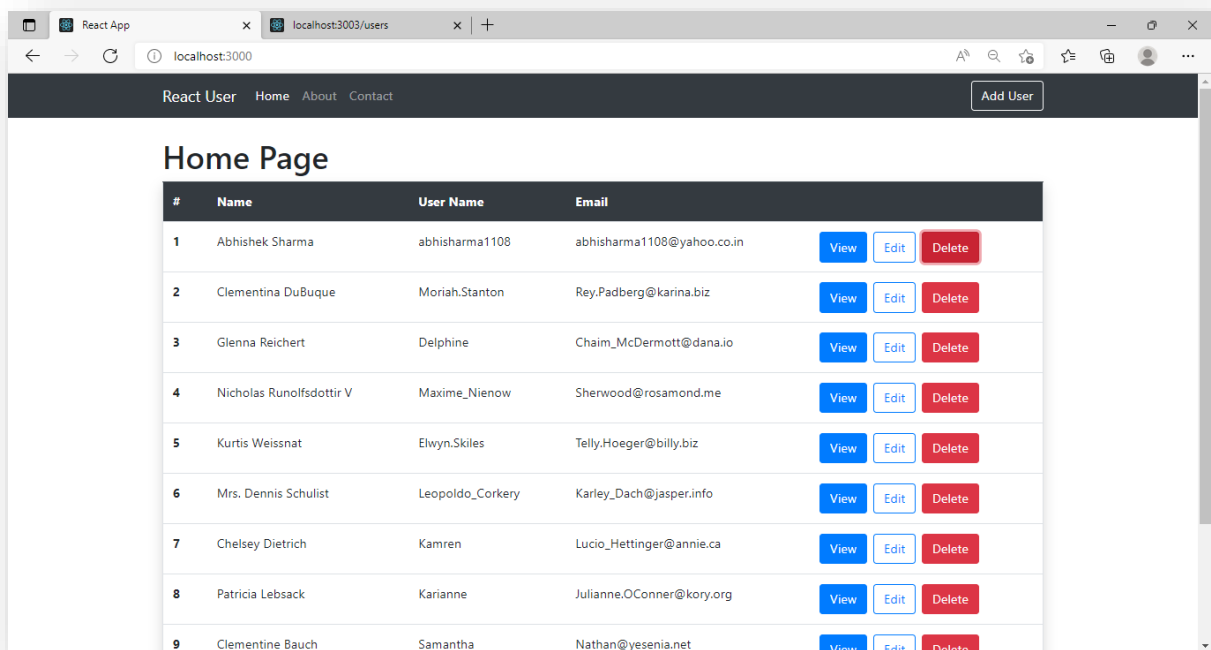
export default Home;

```

Output:



#	Name	User Name	Email	View	Edit	Delete
1	Abhishek Sharma	abhisharma1108	abhisharma1108@yahoo.co.in	View	Edit	Delete
2	Abhishek	abhisharma1108	abhisharma1108@yahoo.co.in	View	Edit	Delete
3	Clementina DuBuque	Moriah.Stanton	Rey.Padberg@karina.biz	View	Edit	Delete
4	Glenna Reichert	Delphine	Chaim_McDermott@dana.io	View	Edit	Delete
5	Nicholas Runolfsdottir V	Maxime_Nienow	Sherwood@rosamond.me	View	Edit	Delete
6	Kurtis Weissnat	Elwyn.Skiles	Telly.Hoeger@billy.biz	View	Edit	Delete
7	Mrs. Dennis Schulist	Leopoldo_Corkery	Karley_Dach@jasper.info	View	Edit	Delete
8	Chelsey Dietrich	Kamren	Lucio_Hettinger@annie.ca	View	Edit	Delete
9	Patricia Lebsack	Karianne	Julianne.OConner@kory.org	View	Edit	Delete



#	Name	User Name	Email	View	Edit	Delete
1	Abhishek Sharma	abhisharma1108	abhisharma1108@yahoo.co.in	View	Edit	Delete
2	Clementina DuBuque	Moriah.Stanton	Rey.Padberg@karina.biz	View	Edit	Delete
3	Glenna Reichert	Delphine	Chaim_McDermott@dana.io	View	Edit	Delete
4	Nicholas Runolfsdottir V	Maxime_Nienow	Sherwood@rosamond.me	View	Edit	Delete
5	Kurtis Weissnat	Elwyn.Skiles	Telly.Hoeger@billy.biz	View	Edit	Delete
6	Mrs. Dennis Schulist	Leopoldo_Corkery	Karley_Dach@jasper.info	View	Edit	Delete
7	Chelsey Dietrich	Kamren	Lucio_Hettinger@annie.ca	View	Edit	Delete
8	Patricia Lebsack	Karianne	Julianne.OConner@kory.org	View	Edit	Delete
9	Clementine Bauch	Samantha	Nathan@yesenia.net	View	Edit	Delete

Now we have to view user details we have to create one more component. So, like above what we have done as follows.

## DetailsUser.js

```
import React from 'react'

export const DetailsUser = () => {
  return (
    <div>DetailsUser</div>
  )
}
```



## App.js

```
import './App.css';
import Home from '../src/components/pages/Home';
import About from './components/pages/About';
import Contact from './components/pages/Contact';
import Navbar from './components/Layout/Navbar';
import { BrowserRouter as Router, Switch, Route } from 'react-router-dom';
import NotFound from './components/pages/NotFound';
import { AddUser } from './Users/AddUser';
import { EditUser } from './Users/EditUser';
import { DetailsUser } from './Users/DetailsUser';

function App() {
  return (
    <Router>
      <div className="App">
        <Navbar />
        <Switch>
          <Route exact path="/" component={Home}/>
          <Route exact path="/about" component={About}/>
          <Route exact path="/contact" component={Contact}/>

```

```

    <Route exact path="/users/add" component={AddUser}/>
    <Route exact path="/users/edit/:id" component={EditUser}/>
    <Route exact path="/users/:id" component={DetailsUser}/>
    <Route component={NotFound}/>
  </Switch>
</div>
</Router>
);
}
export default App;

```

In **Home.js** kindly do changes in view link as follows.

```

<Link class="btn btn-primary mr-2" exact to={` /users/${user.id}`}>
  View
</Link>

```

And on click view option on home page and check link



Now write following code to check data is fetching or not  
Note: most of the code is same like edit page.

## DetailsUser.js

```

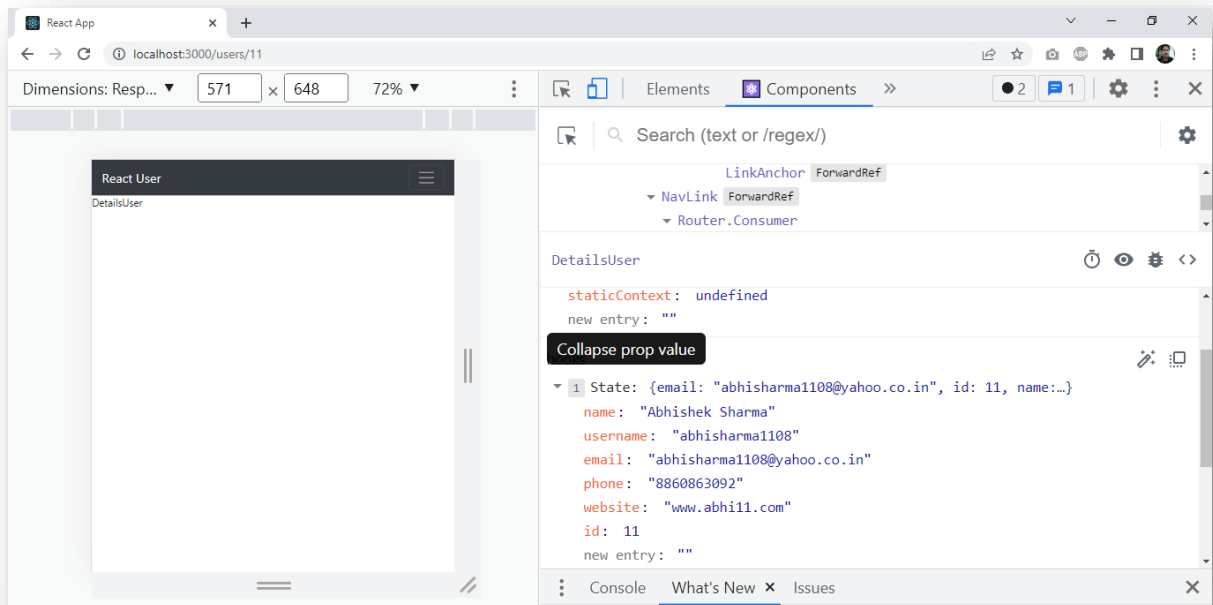
import React, { useEffect, useState } from "react";
import axios, { Axios } from "axios";
import { useHistory, useParams } from "react-router-dom";

export const DetailsUser = () => {

  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });
  const { id } = useParams();
  useEffect(() => {
    loadUser();
  }, []);
  const loadUser = async () => {

```

```
const result = await axios.get(`http://localhost:3003/users/${id}`);
setUser(result.data);
};
return <div>DetailsUser</div>;
};
```



Now the final code of detailsUser as follows

```
import React, { useEffect, useState } from "react";
import axios, { Axios } from "axios";
import { useHistory, useParams } from "react-router-dom";
import { Link } from "react-router-dom";

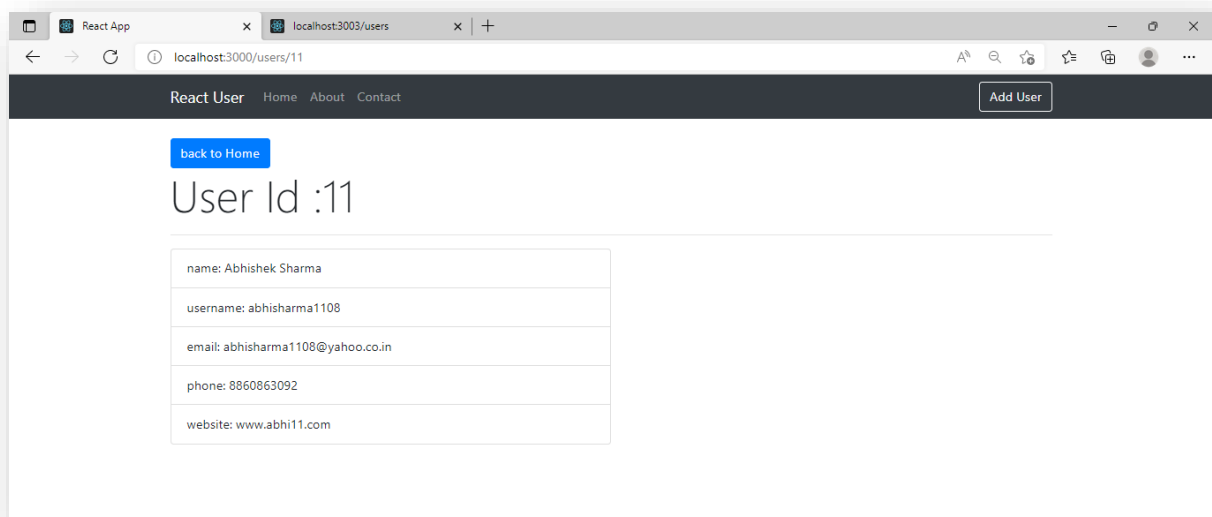
export const DetailsUser = () => {
  const [user, setUser] = useState({
    name: "",
    username: "",
    email: "",
    phone: "",
    website: "",
  });
  const { id } = useParams();
  useEffect(() => {
    loadUser();
  }, []);
  const loadUser = async () => {
    const result = await axios.get(`http://localhost:3003/users/${id}`);
    setUser(result.data);
  };
  return (
```

```

<div className="container py-4">
  <Link className="btn btn-primary" to="/">
    back to Home
  </Link>
  <h1 className="display-4">User Id :{id}</h1>
  <hr />
  <ul className="list-group w-50">
    <li className="list-group-item">name: {user.name}</li>
    <li className="list-group-item">username: {user.username}</li>
    <li className="list-group-item">email: {user.email}</li>
    <li className="list-group-item">phone: {user.phone}</li>
    <li className="list-group-item">website: {user.website}</li>
  </ul>
</div>
);
};

```

And the final output



PS F:\MY REACT\users> npm run start:dev