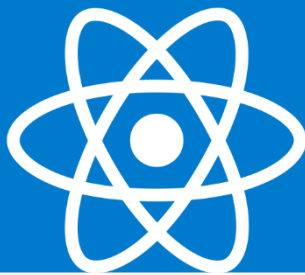




React JS

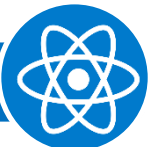
#React Notes

| BootStrap



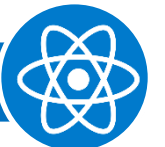
What is React-Bootstrap?

- **React-Bootstrap** is a Bootstrap component of version 4 that helps to make a web page responsive. It replaces Bootstrap JavaScript due to its unnecessary dependencies. Each component of react-bootstrap is designed internally from scratch as a fundamental React component.
- It is one of the React libraries that get old, update, and grow with React itself and make the best choice to design a UI. It uses functions and hooks that make it stateful components.
- <https://react-bootstrap.github.io/>
-



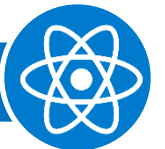
What is Reactstrap?

- The Reactstrap is a library of a whole bunch of components that work with bootstrap 4. Unlike react-bootstrap, it uses built-in, ready-to-use Bootstrap components that are redesigned as JSX.
- To use the Reactstrap, we need to install both Bootstrap CSS and the reactstrap components. It helps to create a responsive user interface.
- Reactstrap uses class components and maybe uses hooks in fewer updates. It is also an excellent choice to create a responsive mobile-first webpage.
- <https://reactstrap.github.io/>

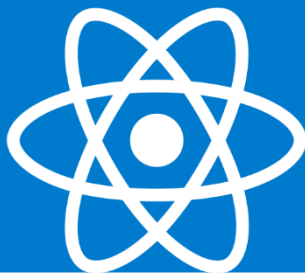


React-bootstrap Vs Reactstrap

React-bootstrap built its components from scratch.	Reactstrap uses ready-to-use prebuilt components.
React-bootstrap is using hooks and functions that make it a stateful component.	Reactstrap is a class-based stateless component
It does not depend on JavaScript and jQuery	It also does not depend on jQuery and Bootstrap JavaScript as well as it excludes Bootstrap CSS.
React-bootstrap provides its implementations to create animations	Reactstrap uses popper and transition to create animations.
npm install react-bootstrap	npm install reactstrap

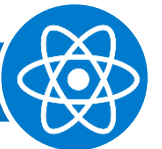


| BootStrap



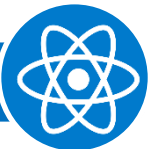
Create new Project

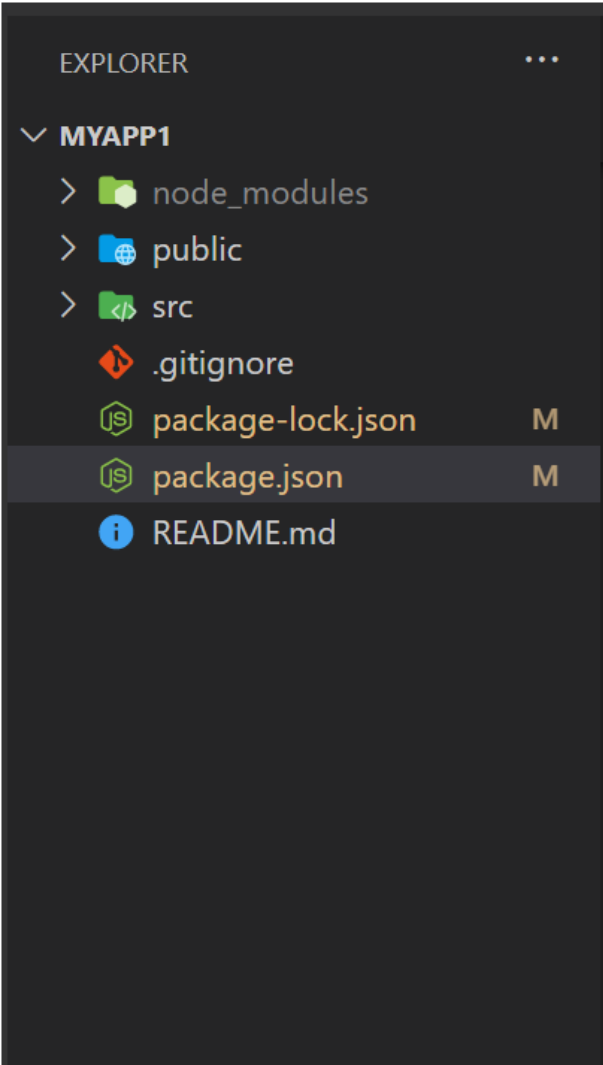
- `npx create-react-app my_app`
- `cd my_app/`
- `npm start`



Command Prompt

```
D:\lecture\myapp1>npm i bootstrap --save
```





EXPLORER

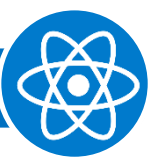
MYAPP1

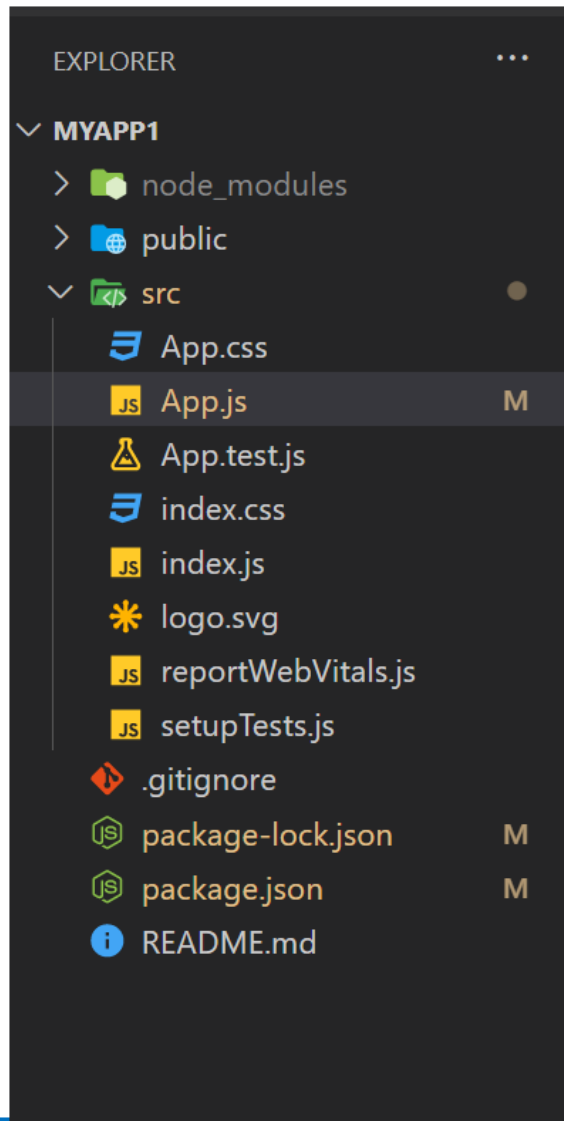
- node_modules
- public
- src
- .gitignore
- package-lock.json M
- package.json M
- README.md

package.json M X

package.json > {} dependencies > bootstrap

```
4  "private": true,  
5  "dependencies": {  
6    "@testing-library/jest-dom": "^5.16.3",  
7    "@testing-library/react": "^12.1.4",  
8    "@testing-library/user-event": "^13.5.0",  
9    "bootstrap": "^5.1.3",  
10   "react": "^18.0.0",  
11   "react-dom": "^18.0.0",  
12   "react-scripts": "5.0.0",  
13   "web-vitals": "^2.1.4"  
14 },  
15  
16   "scripts": {  
17     "start": "react-scripts start",  
18     "build": "react-scripts build",  
19     "test": "react-scripts test",  
20     "eject": "react-scripts eject"  
  },  
}
```



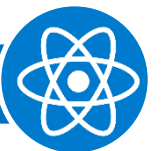


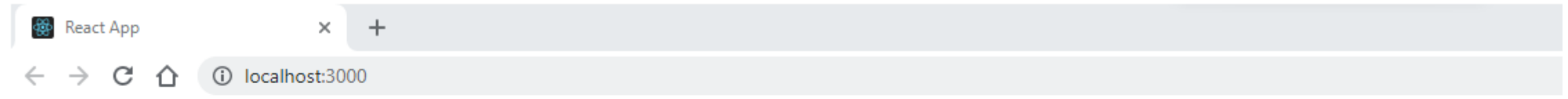
EXPLORER

- MYAPP1
 - node_modules
 - public
 - src
 - App.css
 - App.js M
 - App.test.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - .gitignore
 - package-lock.json M
 - package.json M
 - README.md

src > App.js > ...

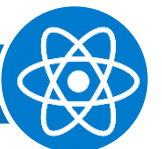
```
1  import 'bootstrap/dist/css/bootstrap.min.css';
2
3  function App() {
4    return (
5      <div>
6        | Bootstrap Demo
7        | <div class="alert alert-primary" role="alert">
8        |   A simple primary alert-check it out!
9        | </div>
10     </div>
11   );
12 }
13
14 export default App;
15
```



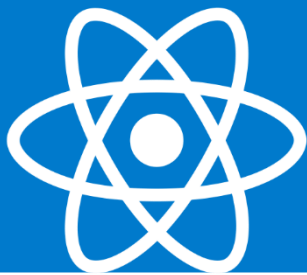


BootStrap Demo

A simple primary alert—check it out!



| ReactStrap





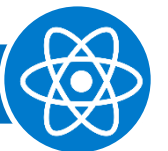
Command Prompt

```
D:\lecture\myapp1>npm i bootstrap --save
```



Command Prompt

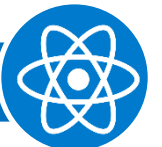
```
D:\lecture\myapp1>npm i reactstrap react react-dom --save
```



package.json M X

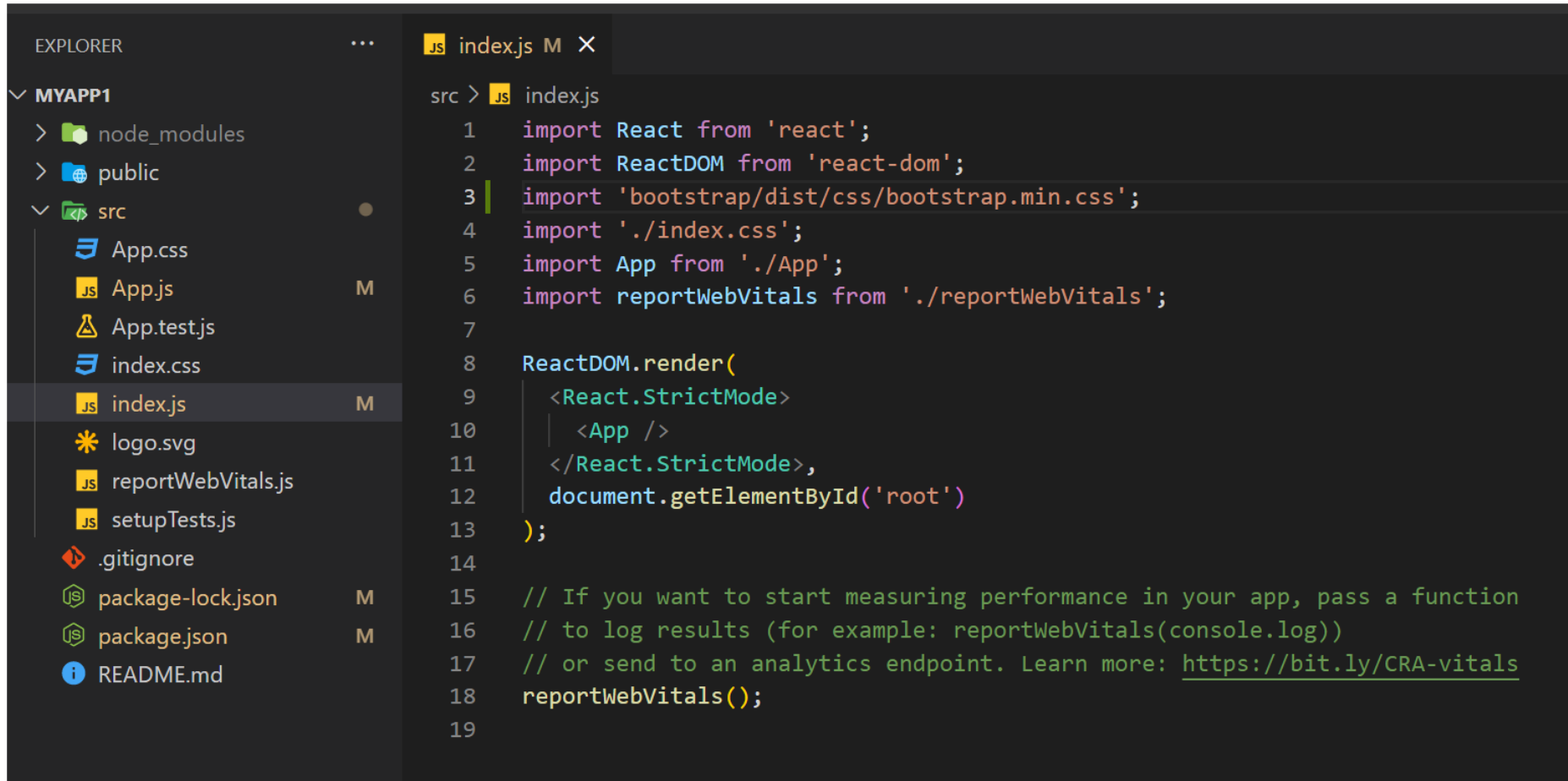
package.json > {} dependencies

```
1  {
2    "name": "myapp1",
3    "version": "0.1.0",
4    "private": true,
5    "dependencies": {
6      "@testing-library/jest-dom": "^5.16.3",
7      "@testing-library/react": "^12.1.4",
8      "@testing-library/user-event": "^13.5.0",
9      "bootstrap": "^5.1.3",
10     "react": "^18.0.0",
11     "react-dom": "^18.0.0",
12     "react-scripts": "5.0.0",
13     "reactstrap": "^9.0.1",
14     "web-vitals": "^2.1.4"
15   },
```



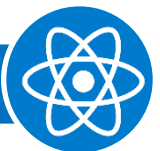
Index.js

- Once Reactstrap is installed. Import Bootstrap it in index.js by typing:

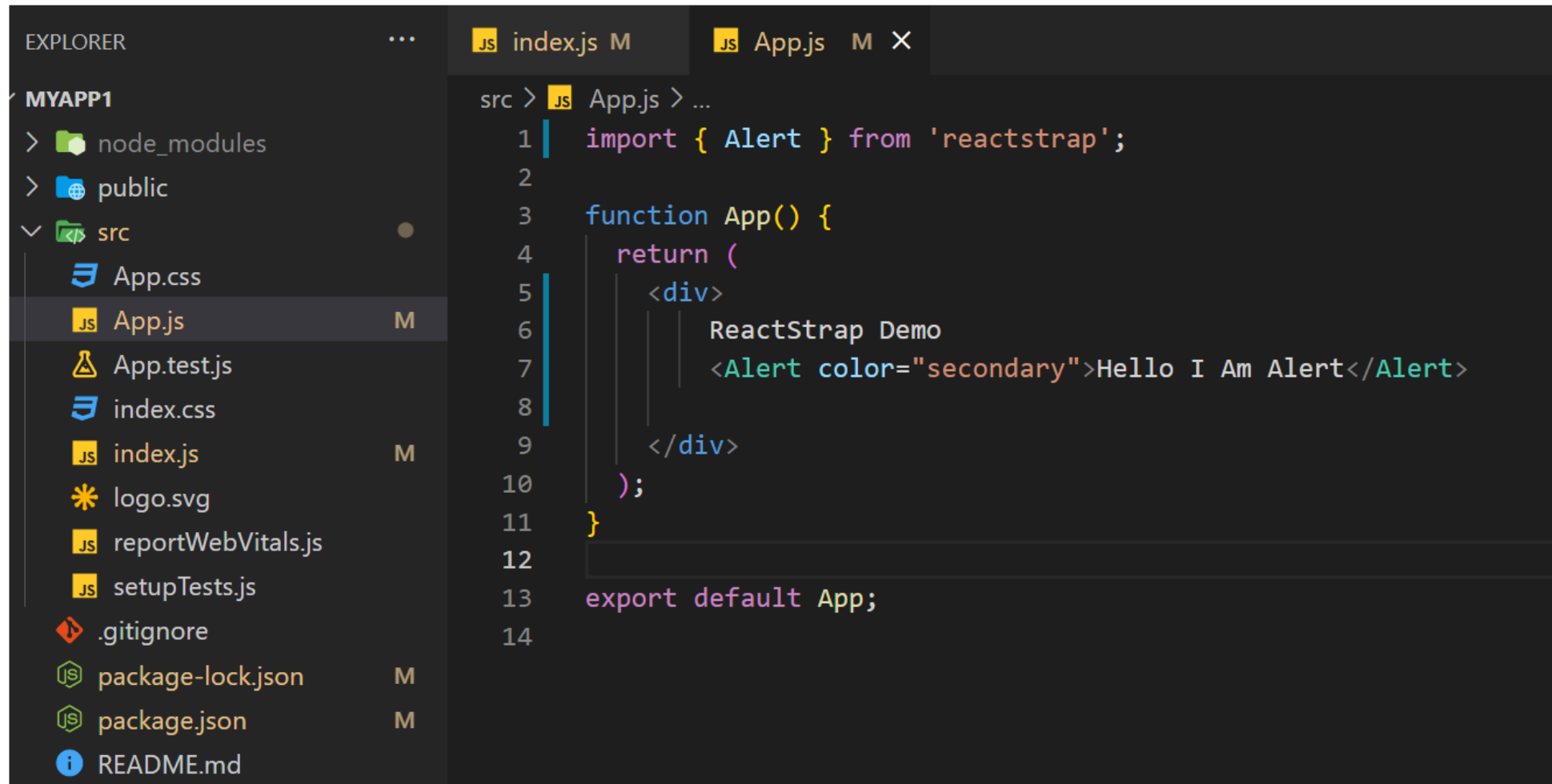


```
EXPLORER
MYAPP1
├── node_modules
├── public
├── src
│   ├── App.css
│   ├── App.js
│   ├── App.test.js
│   ├── index.css
│   ├── index.js
│   ├── logo.svg
│   ├── reportWebVitals.js
│   ├── setupTests.js
│   ├── .gitignore
│   ├── package-lock.json
│   ├── package.json
│   └── README.md
└── ...

src > index.js
1  import React from 'react';
2  import ReactDOM from 'react-dom';
3  import 'bootstrap/dist/css/bootstrap.min.css';
4  import './index.css';
5  import App from './App';
6  import reportWebVitals from './reportWebVitals';
7
8  ReactDOM.render(
9    <React.StrictMode>
10     <App />
11   </React.StrictMode>,
12   document.getElementById('root')
13 );
14
15 // If you want to start measuring performance in your app, pass a function
16 // to log results (for example: reportWebVitals(console.log))
17 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
18 reportWebVitals();
19
```

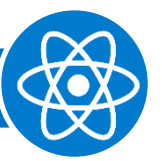


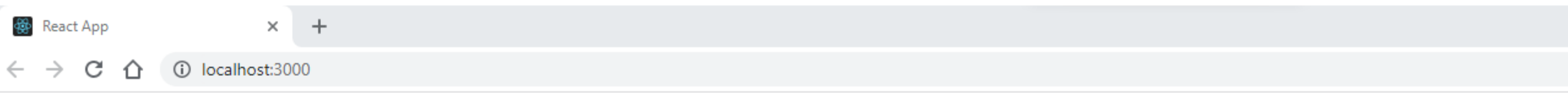
Import Reactstrap in App.js by typing



The screenshot shows a VS Code editor with a project named 'MYAPP1'. The Explorer sidebar on the left shows the file structure with 'App.js' selected. The main editor window shows the code in 'App.js' with the following content:

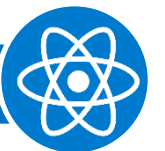
```
src > JS App.js > ...
1  import { Alert } from 'reactstrap';
2
3  function App() {
4    return (
5      <div>
6        ReactStrap Demo
7        <Alert color="secondary">Hello I Am Alert</Alert>
8      </div>
9    );
10  }
11
12  export default App;
```



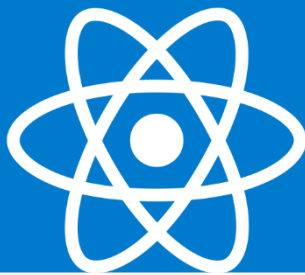


ReactStrap Demo

Hello I Am Alert



| Form ReactStrap



```

App.js M X
src > App.js > App > render
1 import { Component } from 'react';
2 import { Button, Form, FormGroup, Input, Label } from 'reactstrap';
3
4 class App extends Component {
5   render() {
6     return (
7       <div className="App">
8         <div className="container">
9           <h2>Sign In</h2>
10          <Form className="form">
11            <FormGroup>
12              <Label for="exampleEmail">Username</Label>
13              <Input
14                type="email" name="email" id="exampleEmail"
15                placeholder="example@example.com"
16              />
17            </FormGroup>
18            <FormGroup>
19              <Label for="examplePassword">Password</Label>
20              <Input
21                type="password" name="password" id="examplePassword"
22                placeholder="*****"
23              />
24            </FormGroup>
25            <Button type="button" color="primary">Submit</Button>
26          </Form>
27        </div>
28      </div>
29    );
30  }
31 }
32
33 export default App;

```

React App

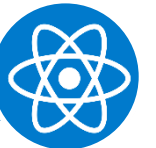
localhost:3000/?email=&password=

Sign In

Username

Password

Submit

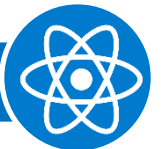


Code

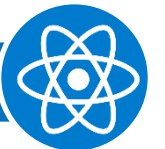
```
import { Component } from 'react';
import { Button, Form, FormGroup, Input, Label } from 'reactstrap';

class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="container">
          <h2>Sign In</h2>
          <Form className="form">
            <FormGroup>
              <Label for="exampleEmail">Username</Label>
              <Input
                type="email" name="email" id="exampleEmail"
                placeholder="example@example.com"
              />
            </FormGroup>
            <FormGroup>
              <Label for="examplePassword">Password</Label>
              <Input
                type="password" name="password" id="examplePassword"
                placeholder="*****"
              />
            </FormGroup>
            <Button type="button" color="primary">Submit</Button>
          </Form>
        </div>
      </div>
    );
  }
}
```

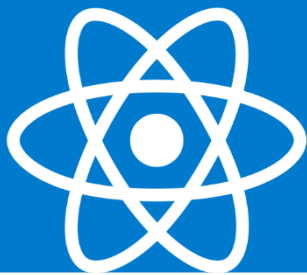
export default App;



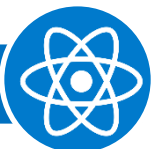
- <https://react-bootstrap.github.io/>
- <https://mdbbootstrap.com/>
- <https://mdbbootstrap.com/docs/b5/react/>



| Font

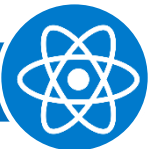


- Font Awesome has an official React component that's available so designers and developers can use their icons in their React projects
- <https://github.com/FortAwesome/react-fontawesome>
- <https://fontawesome.com/v5/docs/web/use-with/react>



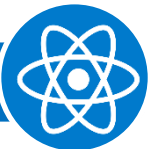
Installation

- `npm i --save @fortawesome/fontawesome-svg-core`
- `npm i --save @fortawesome/free-solid-svg-icons`
- `npm i --save @fortawesome/react-fontawesome`



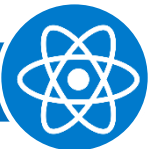
Using the Icons

- Now we need to import the font-awesome icons directly into our working files so we can easily implement them in our application.



Icon Styles

- Solid Style - fas
- Regular Style - far
- Light Style - fal
- Duotone Style - fad



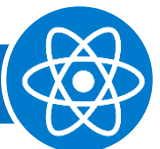
App.js

src > App.js > ...

```
1 import { faHome } from "@fortawesome/free-solid-svg-icons";
2 import { FontAwesomeIcon } from "@fortawesome/react-fontawesome";
3
4 function App() {
5   return (
6     <div>
7       <FontAwesomeIcon icon={faHome} />
8     </div>
9   );
10 }
11
12 export default App;
13
```

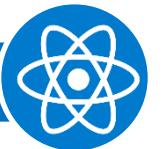
React App

localhost:3000



```
import { faHome } from "@fortawesome/free-solid-svg-icons";
import { FontAwesomeIcon } from "@fortawesome/react-fontawesome";
function App() {
  return (
    <div>
      <FontAwesomeIcon icon={faHome} />
      <h1>Hello World</h1>
    </div>
  );
}

export default App;
```

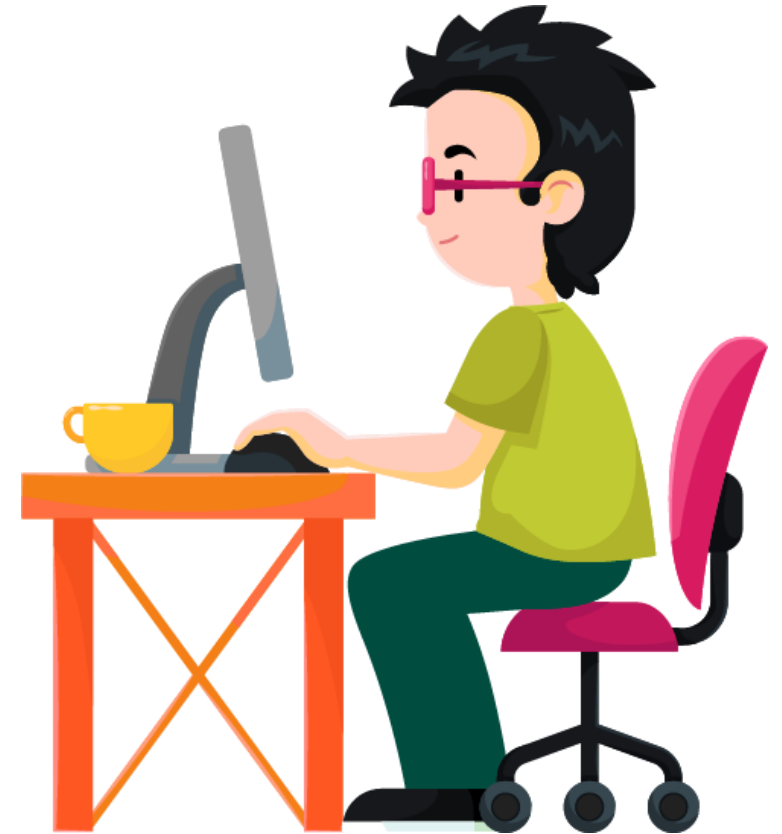


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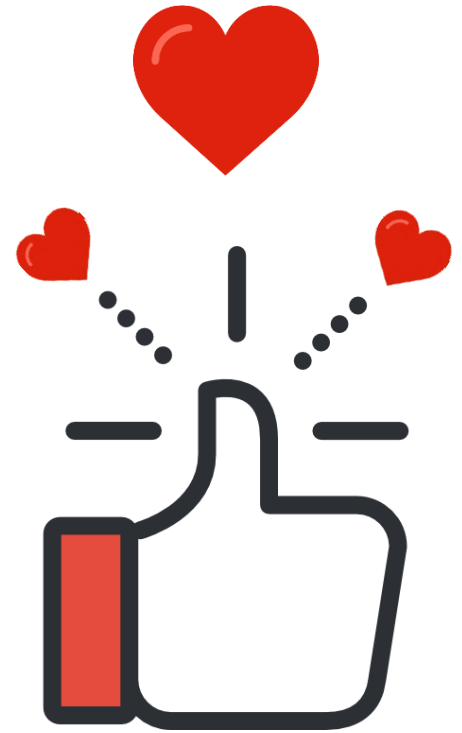
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET



Sulekha

<https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad>



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