

REACT

#1 - Indecision APP

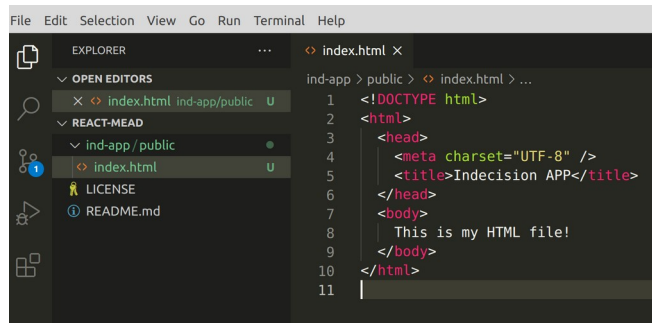
Table of Contents

3 Start with REACT.....	3
3.1 Basic setup (before REACT) 007.....	3
3.2 Create a React APP (scripts) 008.....	4
3.3 Using BABEL to compile JSX to ES5 009.....	5

3 Start with REACT

3.1 Basic setup (before REACT) 007

Create a new repository on GitHub. Clone it to a local folder. Create a simple HTML file.

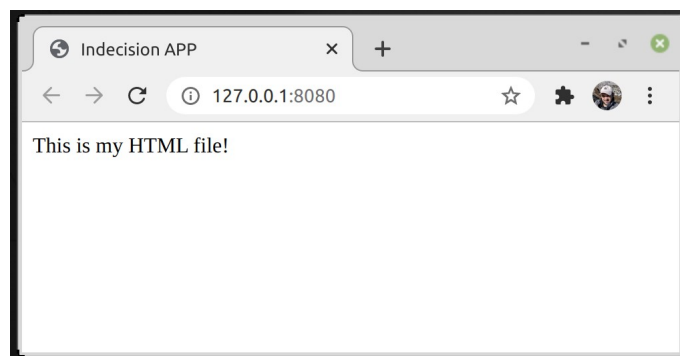
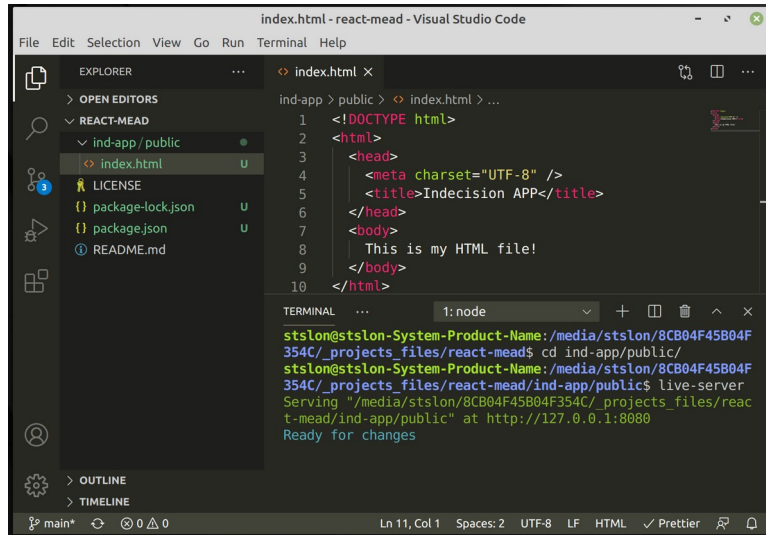


Npm init [CLI=> **npm init -y**]

Install live server [CLI=> **sudo npm install -g live-server**]

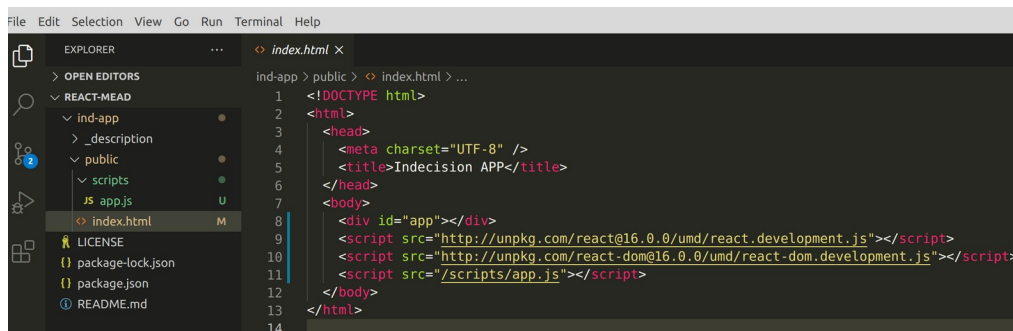
Go to a folder ind-app/public [CLI=> **cd ind-app/public**]

Start a server [CLI=> **live-server**]



3.2 Create a React APP (scripts) 008

Add div 'app' and 3 scripts to index.html and create **public/scripts/app.js**

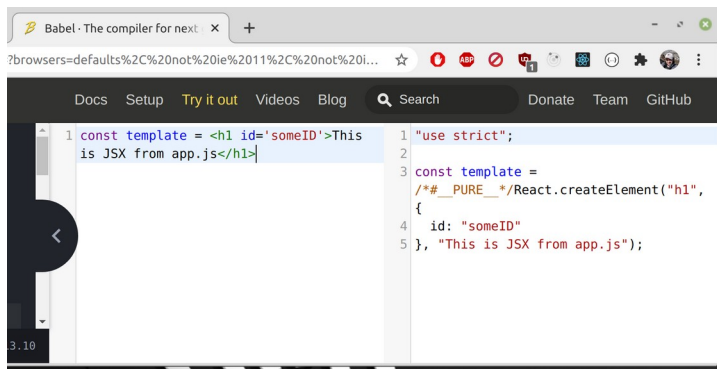


```

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="UTF-8" />
5   <title>Indecision APP</title>
6 </head>
7 <body>
8   <div id="app"></div>
9   <script src="http://unpkg.com/react@16.0.0/umd/react.development.js"></script>
10  <script src="http://unpkg.com/react-dom@16.0.0/umd/react-dom.development.js"></script>
11  <script src="/scripts/app.js"></script>
12 </body>
13 </html>
14

```

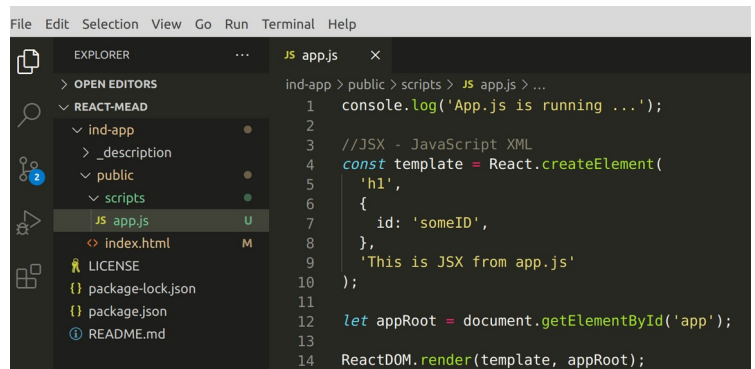
JSX is a JavaScript XML. BABEL is a JavaScript compiler (it convert modern simple ES6 or ES7 to ES5)



```

1 const template = <h1 id='someID'>This
  is JSX from app.js</h1>
2
3 *use strict*;
4 const template =
5   /*__PURE__*/React.createElement("h1",
6     {
7       id: "someID"
8     }, "This is JSX from app.js");
9

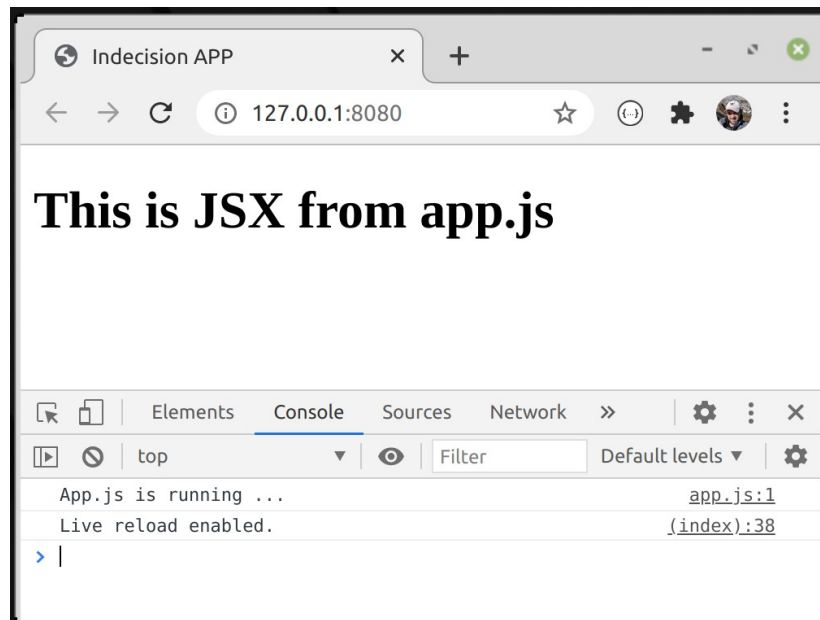
```



```

1 console.log('App.js is running ...');
2
3 //JSX - JavaScript XML
4 const template = React.createElement(
5   'h1',
6   {
7     id: 'someID',
8   },
9   'This is JSX from app.js'
10 );
11
12 let appRoot = document.getElementById('app');
13
14 ReactDOM.render(template, appRoot);
15

```



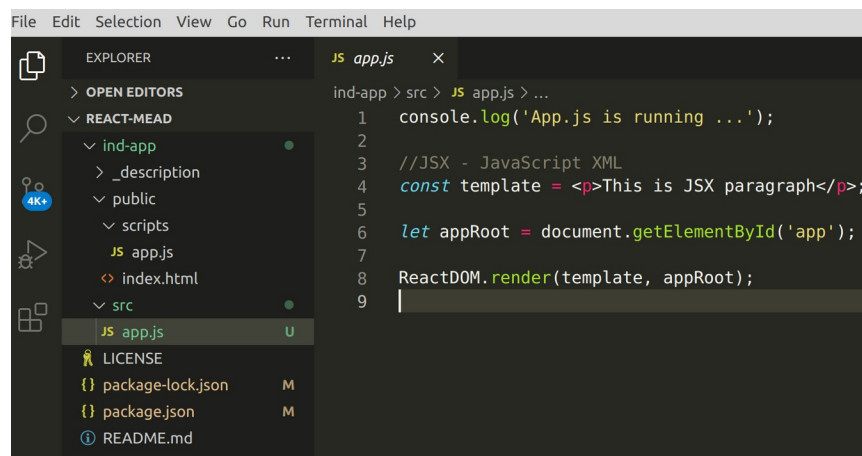
3.3 Using BABEL to compile JSX to ES5 009

Install babel v.6.24.1 [CLI=> **npm i -g babel-cli@6.24.1**]

Install babel-preset-react v.6.24.1 and babel-preset-env v.1.5.2 [CLI=> **sudo npm i babel-preset-react@6.24.1 babel-preset-env@1.5.2**]

Now we are able to use JSX.

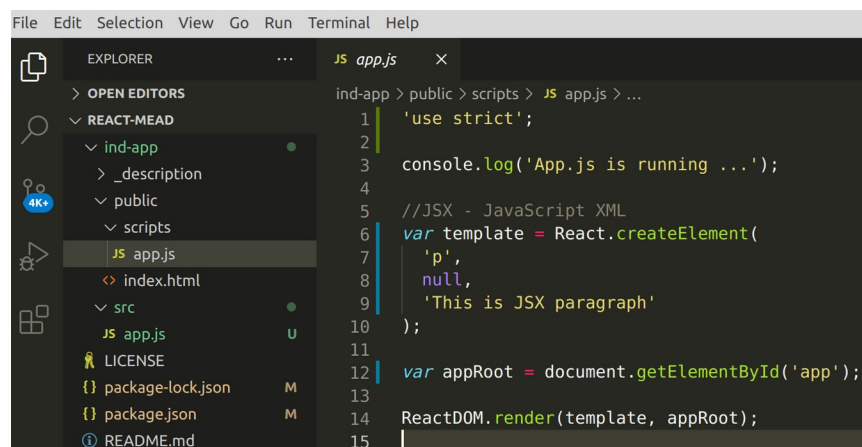
Create a file **src/app.js** with JSX



```
File Edit Selection View Go Run Terminal Help
EXPLORER
> OPEN EDITORS
REACT-MEAD
  > ind-app
    > _description
    > public
      > scripts
        JS app.js
      <> index.html
    > src
      JS app.js
      LICENSE
      {} package-lock.json
      {} package.json
      ① README.md
JS app.js
ind-app > src > JS app.js > ...
1 console.log('App.js is running ...');
2
3 //JSX - JavaScript XML
4 const template = <p>This is JSX paragraph</p>;
5
6 let appRoot = document.getElementById('app');
7
8 ReactDOM.render(template, appRoot);
9
```

USE BABEL with CLI: [CLI=> **babel src/app.js --out-file=public/scripts/app.js --presets=env,react --watch**]

This command will create **public/scripts/app.js** with ES5 syntax of **src/app.js** and will track all the changes on **src/app.js** and immediately change **public/scripts/app.js**



```
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REACT-MEAD
  > ind-app
    > _description
    > public
      > scripts
        JS app.js
      <> index.html
    > src
      JS app.js
      LICENSE
      {} package-lock.json
      {} package.json
      ① README.md
JS app.js
ind-app > public > scripts > JS app.js > ...
1 'use strict';
2
3 console.log('App.js is running ...');
4
5 //JSX - JavaScript XML
6 var template = React.createElement(
7   'p',
8   null,
9   'This is JSX paragraph'
10 );
11
12 var appRoot = document.getElementById('app');
13
14 ReactDOM.render(template, appRoot);
15
```

