REAGIS

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Create React App

Creating a React application requires Node.js

To create a React app, type the following at the command line

npx create-react-app web-dev

The above creates a new folder called web-dev containing a Node.js project implementing a React.js Web application

Running a React Application

Once React application is created, navigate to folder and run

cd web-dev

npm start

The default React app appears in a browser window



Edit src/App.js and save to reload.

Learn React

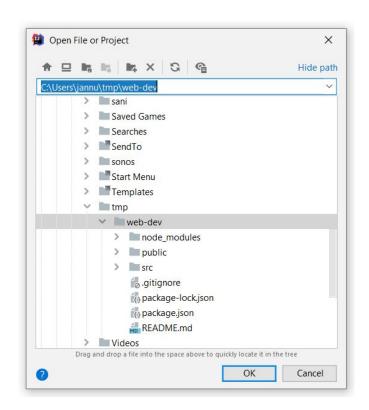
Editing React.js with an IDE

Open the new React project with an IDE such as IntelliJ

Start IntelliJ and select File/Open

Navigate to the folder where you created the project

Select web-dev and click OK



Project File Structure

The **Project** window lists the content of the React project

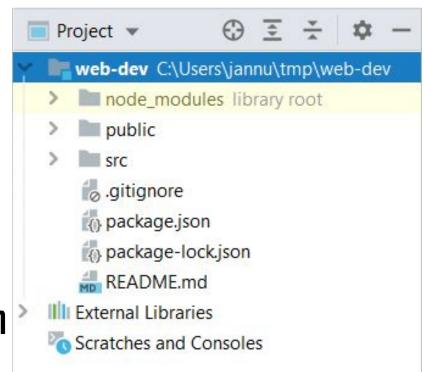
node_modules - libraries

public - root of website

src - React components

.gitignore - files to ignore

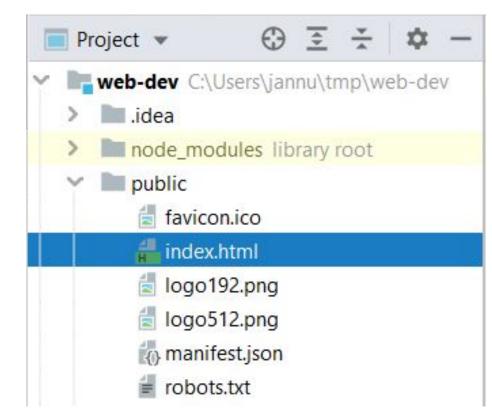
package.json - project description



Index HTML

public folder is root of Web server

public/<u>index.html</u> is root content



Index Root DIV

index.html is mostly empty

Most relevant content is

```
<div id="root"></div>
```

React.js uses JavaScript to dynamically write HTML into above DIV element

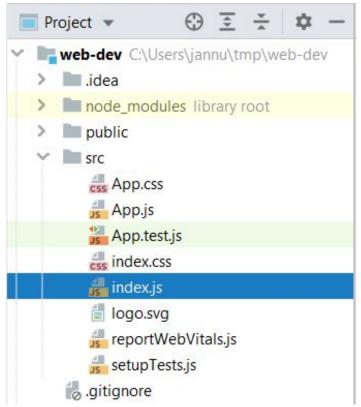
```
<!DOCTYPE html>
<html lang="en">
 <head>
 <title>React App</title>
</head>
<body>
<div id="root"></div>
 </body>
</html>
```

Index JS

<u>src</u> folder contains JavaScript code using the React.js library

that injects HTML into index.html

src/<u>index.js</u> is the root of the JavaScript code



Index JS

React and ReactDOM are part of React

App.js implements default React app

index.js imports App.js

ReactDOM renders app in root

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App.js';
ReactDOM. render (
 <React.StrictMode>
   <App />
 </React.StrictMode>,
 document.getElementById('root')
```

App.js is just a function

```
function App() {
 return (
   <div className="App">
     <header className="App-header">
       <img src={logo} className="App-logo" alt="logo" />
       >
         Edit <code>src/App.js</code> and save to reload.
       App.js is a function that
     </header>
                                    returns the content we want
   </div>
);}
                                    to render in index.html. Note
```

the highlighted content

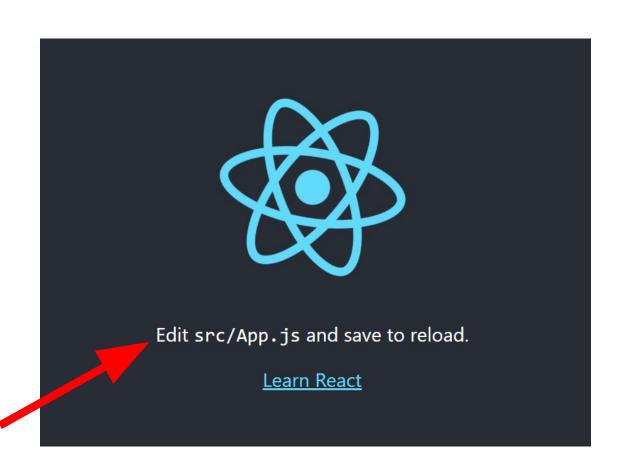
export default App;

App.js Content

This is the content rendered by App.js

Note the highlighted text in previous slide

We can edit the content



Edit App.js

```
function App() {
 return
   <div className="App">
     <header className="App-header">
       <img src={logo} className="App-]</pre>
       >
         Welcome to Web Dev!
       </header>
   </div>
);}
export default App;
```



Welcome to Web Dev!

Learn React