



WEEK-3

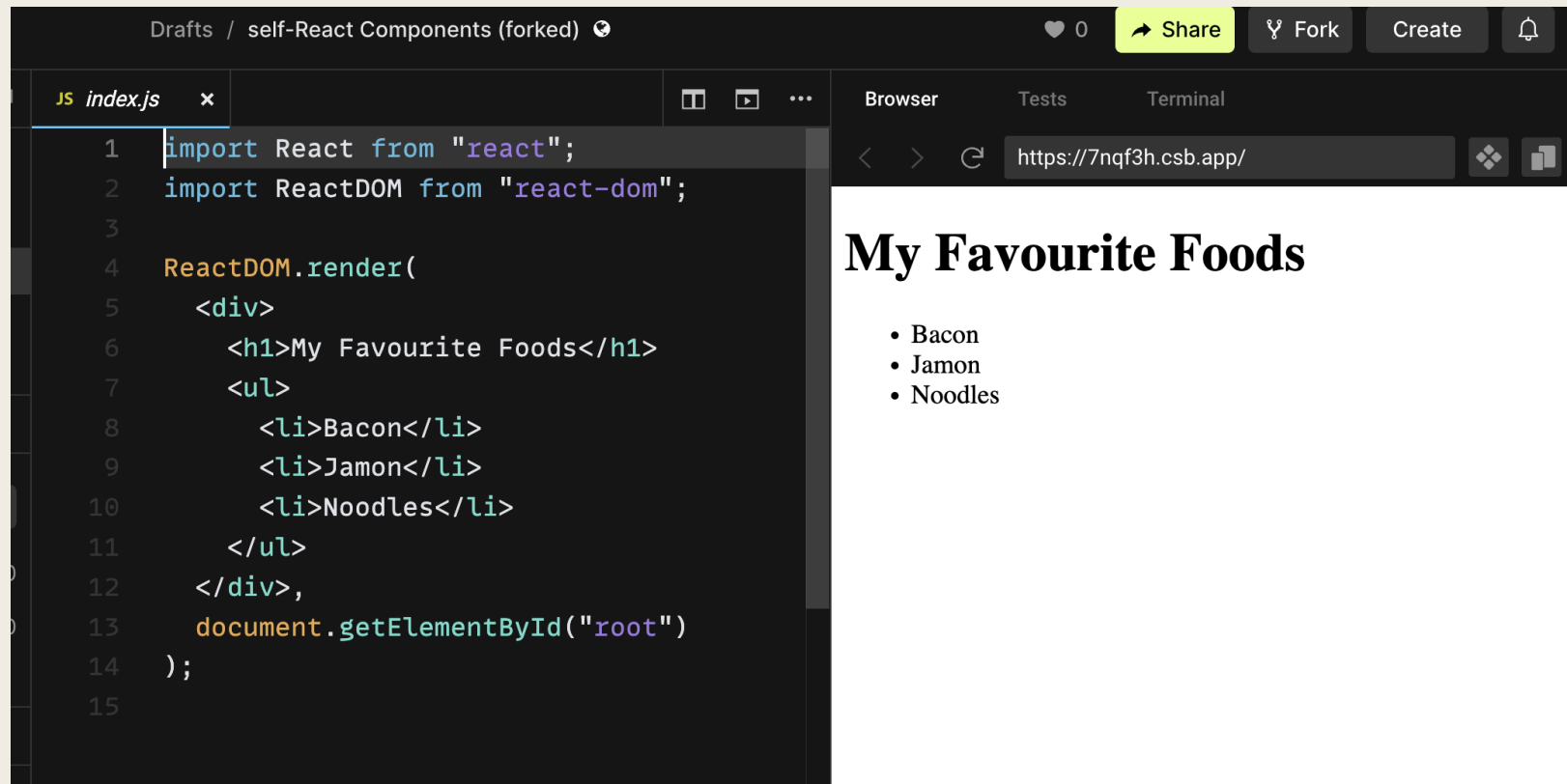
components



Components

- More you have to scroll and longer the single file is, the harder it is to understand the code in it.
- Components help us split up the larger files in to small components.
- Benefits of reuse this components when needed the same functionality.

- Sandbox - <https://codesandbox.io/s/student-react-components-forked-sy8h83?file=/src/index.js>



The screenshot displays a CodeSandbox workspace titled "Drafts / self-React Components (forked)". The interface is split into two main sections: a code editor on the left and a browser preview on the right.

Code Editor (index.js):

```
1 import React from "react";
2 import ReactDOM from "react-dom";
3
4 ReactDOM.render(
5   <div>
6     <h1>My Favourite Foods</h1>
7     <ul>
8       <li>Bacon</li>
9       <li>Jamon</li>
10      <li>Noodles</li>
11    </ul>
12  </div>,
13  document.getElementById("root")
14 );
15
```

Browser Preview:

The browser shows the URL `https://7nqf3h.csb.app/`. The rendered output is a web page with the title "My Favourite Foods" and a bulleted list of items:

- Bacon
- Jamon
- Noodles

1. First we will create a heading component. You may wonder whether it's even necessary to create a component for this.
2. Create a function with pascal case function `Heading()` which returns `h1` element.
3. Add `<Heading />` back to where the `h1` was before.

```
function Heading() {  
  return <h1>My Favourite Foods</h1>;  
}  
  
ReactDOM.render(  
  <div>  
    <Heading />  
    <ul>
```

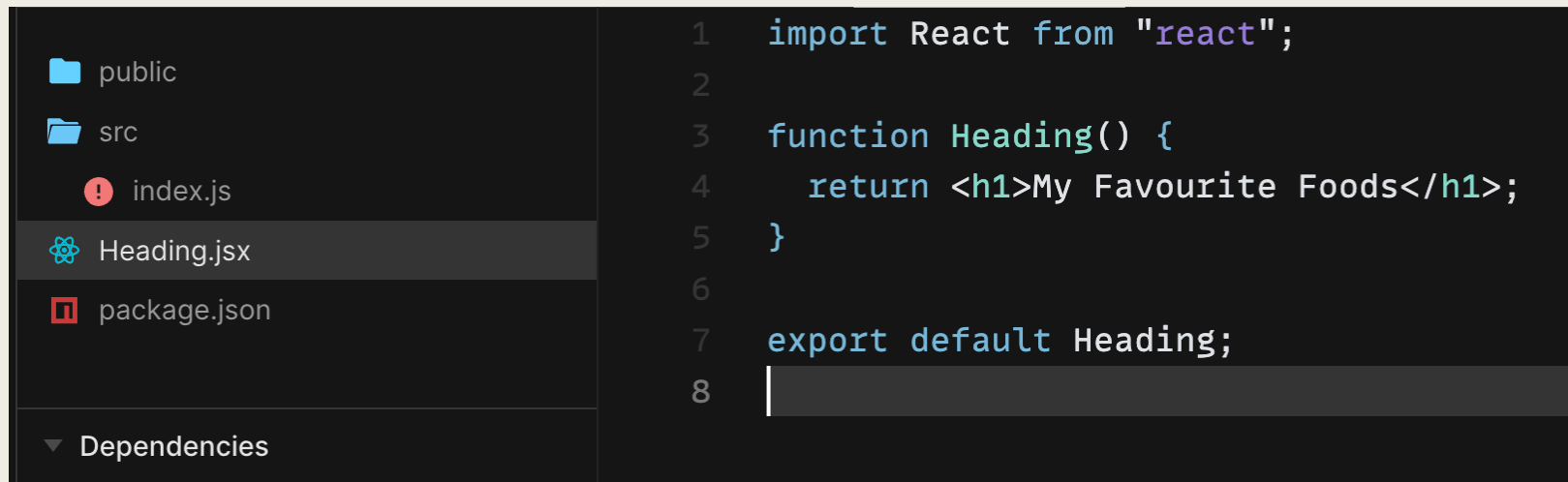
My Favourite Foods

- Bacon
- Jamon
- Noodles

4. Airbnb jsx/react style guide - <https://airbnb.io/javascript/react/>

All the components not necessary reside in
the index.js file!

1. Create a new file named Heading.jsx in the src folder.
2. All the components are individual files with jsx extension.
3. Take Heading component and paste Heading.jsx file.
3. `import React from "react";` needed on the top of every component file.
4. `export default Heading;` at the bottom of the file.



```
1  import React from "react";
2
3  function Heading() {
4    return <h1>My Favourite Foods</h1>;
5  }
6
7  export default Heading;
8
```

Adding component in index.js file

1. In the index.js file, Import Heading.jsx file - `import Heading from "./Heading";`
2. `./Heading.jsx` also works but `.jsx` is optional.

```
1 import React from "react";
2 import ReactDOM from "react-dom";
3 import Heading from "./Heading";
4
5 ReactDOM.render(
6   <div>
7     <Heading />
8     <ul>
9       <li>Bacon</li>
10      <li>Jamon</li>
11      <li>Noodles</li>
12    </ul>
13  </div>,
14  document.getElementById("root")
15 );
```

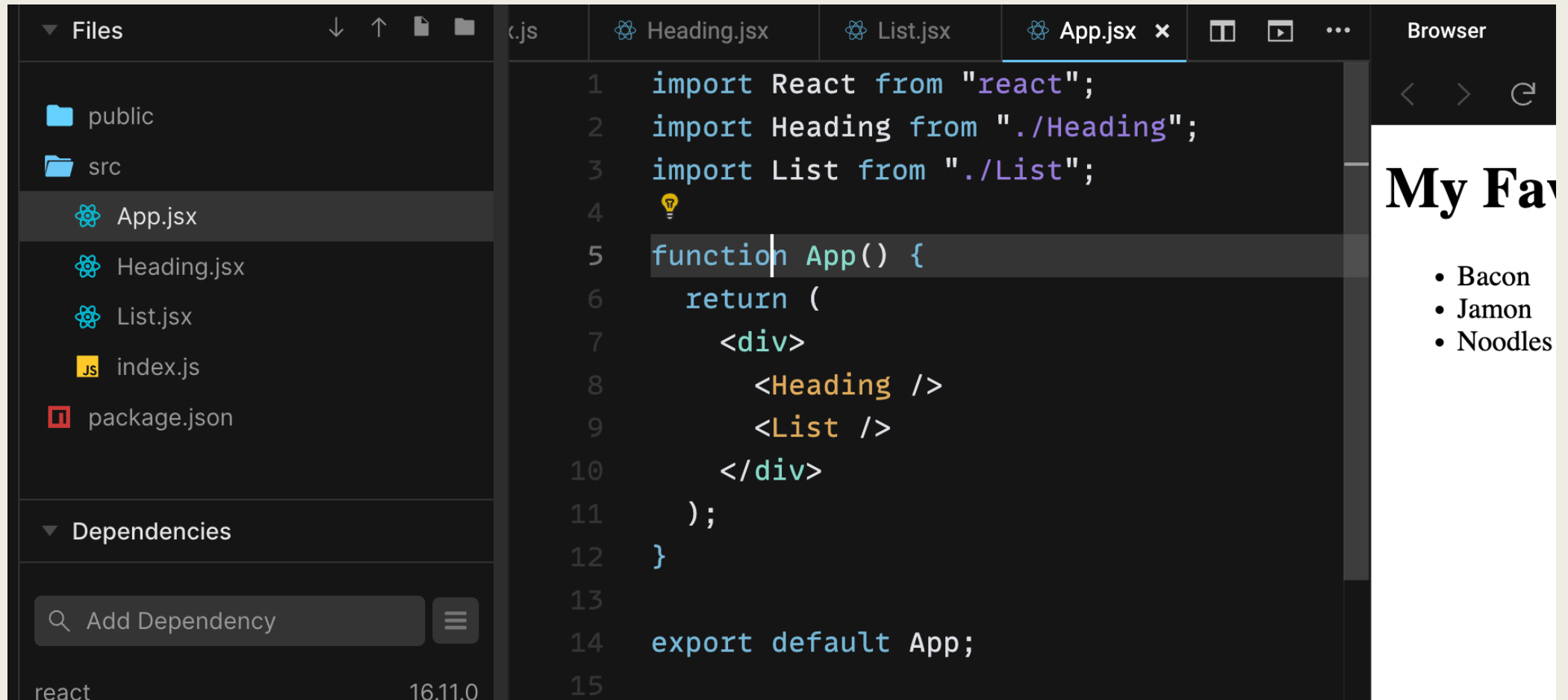


Challenge!

- Create a List component containing the 3 list items and use that in index.js file. Use the ul element already in the index.js file.

only `<App />` in index.js!

App.jsx file contains -



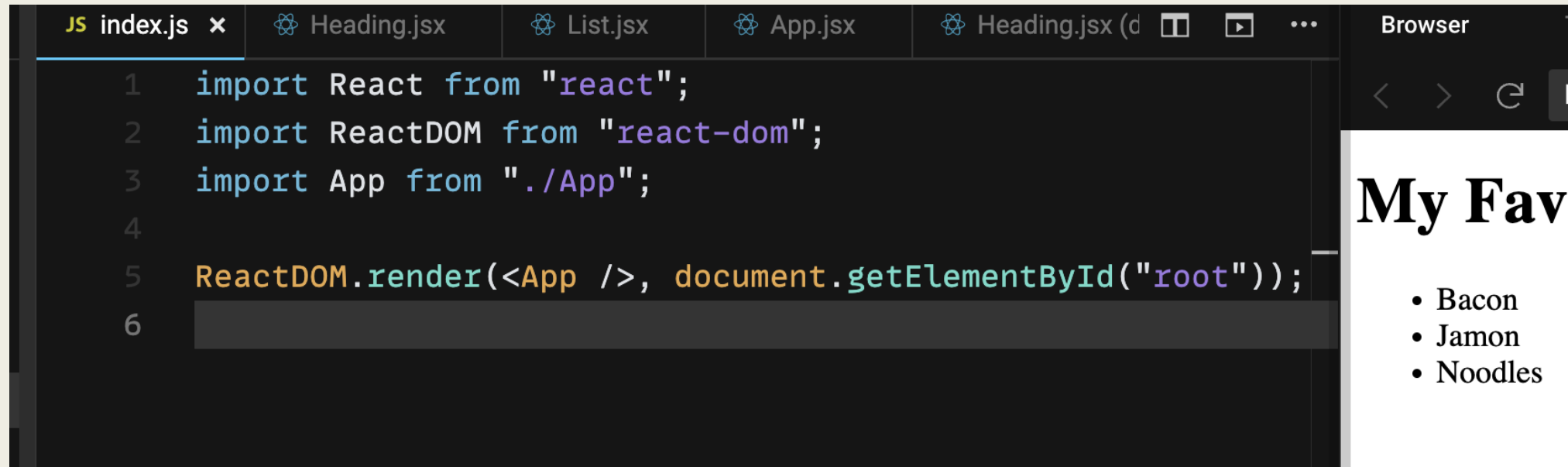
The screenshot displays a code editor interface with a dark theme. On the left, a file explorer shows a project structure with a 'public' folder, a 'src' folder containing 'App.jsx', 'Heading.jsx', and 'List.jsx', an 'index.js' file, and a 'package.json' file. Below the file explorer is a 'Dependencies' section with a search bar labeled 'Add Dependency' and a list showing 'react' at version '16.11.0'. The main editor area shows the 'App.jsx' file with the following code:

```
1 import React from "react";
2 import Heading from "../Heading";
3 import List from "../List";
4 
5 function App() {
6   return (
7     <div>
8       <Heading />
9       <List />
10    </div>
11  );
12 }
13 
14 export default App;
```

On the right side of the editor, a browser preview is visible, showing a web page with the title 'My Fav' and a list of items:

- Bacon
- Jamon
- Noodles

Index.js file looks like -



The image shows a code editor with a dark theme. The top bar displays several open files: 'index.js' (selected), 'Heading.jsx', 'List.jsx', 'App.jsx', and another 'Heading.jsx'. The 'index.js' file is open, showing the following code:

```
1 import React from "react";
2 import ReactDOM from "react-dom";
3 import App from "./App";
4
5 ReactDOM.render(<App />, document.getElementById("root"));
6
```

To the right of the code editor is a browser preview window. It shows a webpage with the title 'My Fav' and a bulleted list:

- Bacon
- Jamon
- Noodles

Create a components folder in src and move all your components there.

- Make sure to update your relative path in index.js to `import App from './components/App';`

Assignment

- Go to this sandbox - <https://codesandbox.io/s/react-components-practice-forked-rftf3x>

// your task to create components for the given index.js code

//Your src should have a components directory

//Components directory should have App.jsx and Heading.jsx components

// Finally index.js file should render only `<App />` component to provide the same result as the beginning code.