ReactJS. Front to backend. BT 2022

Table of Contents

1 Hints

| [tagName].[className]	div.main-element	<div className="main-element"></div>
[tagName]#[idName]	div#root	<div id="root"></div>
ul>li*[quantity]	ul>li*[quantity]	unordered list with 25 list items will be created

VSCode settings:

```
{
  "editor.fontSize": 18,
  "editor.tabSize": 3,
  "editor.bracketPairColorization.independentColorPoolPerBracketType": true,
  "editor.guides.bracketPairs": true,
  "editor.guides.bracketPairsHorizontal": true,
  "editor.wordWrap": "on",
  "workbench.colorTheme": "Monokai",
  "window.zoomLevel": 2,
  "prettier.arrowParens": "avoid",
  "prettier.jsxSingleQuote": true,
  "prettier.printWidth": 50,
  "prettier.singleQuote": true,
  "editor.formatOnSave": true,
  "[javascript]": {
    "editor.defaultFormatter": "esbenp.prettier-vscode"
  },
  "[jsonc]": {
    "editor.defaultFormatter": "esbenp.prettier-vscode"
  },
  "[json]": {
    "editor.defaultFormatter": "esbenp.prettier-vscode"
  },
  "[javascriptreact]": {
    "editor.defaultFormatter": "esbenp.prettier-vscode"
  }
}
```


INSTALLED

Auto Rename Tag
Auto rename paired HTML/XML tag
Jun Han

Live Server
Launch a development local Server with live
Ritwick Dey

Prettier - Code formatter
Code formatter using prettier
Prettier

vscode-icons
Icons for Visual Studio Code
VSCode Icons Team

2 React basics and JSX

2.1 Feedback project intro

2.2 Create react app

You can create a new ReactJS app using next command:

CLI=> *npx create-react-app feedback-app –use-npm*

You can start your ReactJS app using next command (the terminal should be opened in root folder of your ReactJS app – in this case feedback-app):

CLI=> *npm run server*

Delete all the files from folder feedback-app/src

2.3 Initializing React

Create a main file feedback-app/src/index.js

2.3.1 How to create a new tag on your page with ReactDOM and vanilaJS?
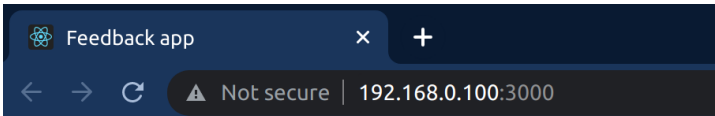
```
import React from 'react';
import ReactDOM from 'react-dom';
ReactDOM.render(<h1>My App</h1>, document.getElementById('root'));
```

2.3.2 How to create a main App.js file (main component)?

Create a main component feedback-app/src/App.js and do some changes in index.js

```
JS index.js U ×

feedback-app > src > JS index.js
   1    import React from 'react';
   2    import ReactDOM from 'react-dom';
   3    import App from './App';
   4
   5    ReactDOM.render(
   6      <React.StrictMode>
   7        <App />
   8      </React.StrictMode>,
   9      document.getElementById('root')
  10    );
  11
```

```
JS App.js U ×

feedback-app > src > JS App.js > ...
   1    import React from 'react';
   2
   3    const App = () => {
   4      return <h1>Hello from the App component</h1>;
   5    };
   6
   7    export default App;
   8    |
```

Feedback app   ×   +

← → C   ⚠ Not secure | 192.168.0.100:3000

Hello from the App component

2.3.3 How to add a main css file?

Create a main css file feedback-app/src/index.css and import it to index.js
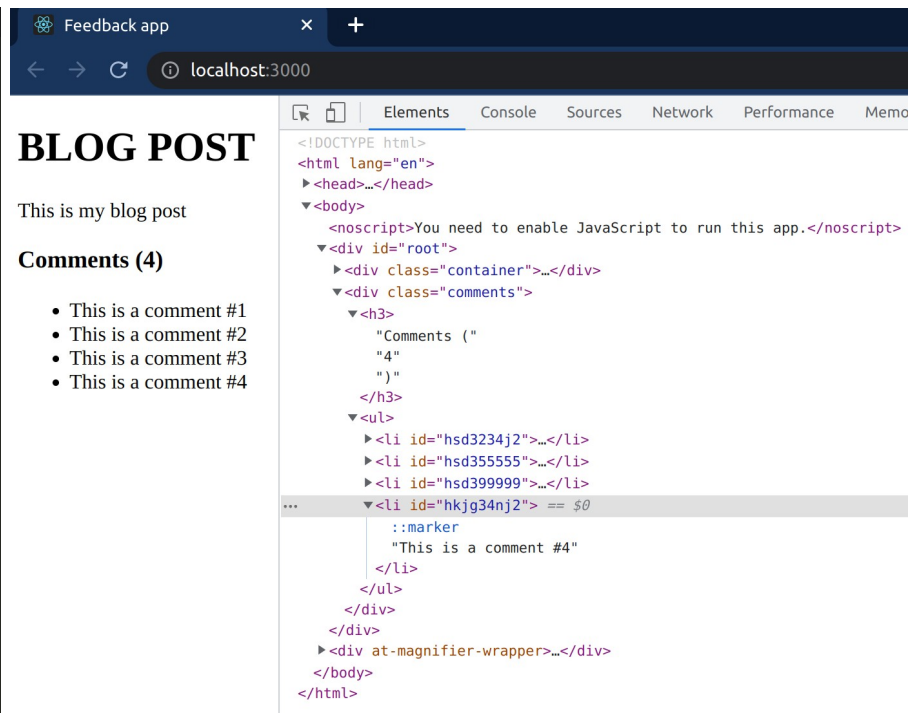
2.4 Intro to JSX

Each React component should return only 1 main/root/parent element. It's such a common case to use fragment element as a parent element <>some JSX</>

You can't use class attribute (as in HTML) instead of it you have to use className.

You can't use for attribute (as in HTML) instead of it you have to use htmlFor.

2.5 Dynamic values and lists in JSX

```jsx
import React from 'react';

const App = () => {
  const title = 'Blog Post';
  const body = 'This is my blog post';
  const comments = [
    {
      id: 'hsd3234j2',
      text: 'This is a comment #1',
    },
    {
      id: 'hsd355555',
      text: 'This is a comment #2',
    },
    {
      id: 'hsd399999',
      text: 'This is a comment #3',
    },
    {
      id: 'hkjg34nj2',
      text: 'This is a comment #4',
    },
  ];
  return (
    <>
      <div className='container'>
        <h1>{title.toUpperCase()}</h1>
        <p>{body}</p>
      </div>
      <div className='comments'>
        <h3>Comments ({comments.length})</h3>
        <ul>
          {comments.map(comment => (
            <li id={comment.id}>
              {comment.text}
            </li>
          ))}
        </ul>
      </div>
    </>
  );
};

export default App;
```

2.6 Conditionals in JSX