ReactJS. Front to backend. BT 2022

 $\underline{https://github.com/PacktPublishing/React-Front-to-Back-2022}$

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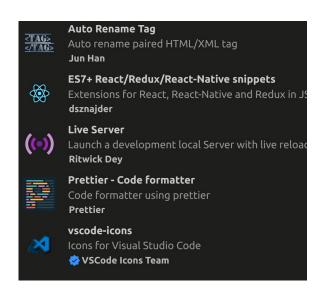
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1 Hints

[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
#[idName].[container]	#root.container	<div classname="container" id="root"></div>

VSCode settings:

```
"editor.fontSize": 18,
"editor.tabSize": 3,
"editor.bracket Pair Colorization.independent Color Pool Per Bracket Type": 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"
```



You can use snippet **rafce** (it comes from ES7+ React/Redux/React-Native snippets extension) to create a new **R**eact **A**rrow **F**unction **C**omponent with **E**xport

You can use snippet **impt** (it comes from ES7+ React/Redux/React-Native snippets extension) **to IMport Prop Types** – **just type impt and click TAB** or **Enter**

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.getElementByld('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

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

```
import React from 'react';
                                                        C (i) localhost:3000
                                                                          Console Sources Network Performance
  const title = 'Blog Post';
const body = 'This is my blog post';
                                                 BLOG POST
                                                                           <html lang="en">
                                                                           ▶ <head>...</head>
  const comments = [
                                                                           ▼<body>
                                                 This is my blog post
                                                                              <noscript>You need to enable JavaScript to run this app./noscript>
      id: 'hsd3234j2',
                                                                             ▼<div id="root">
                                                 Comments (4)
      text: 'This is a comment #1',
                                                                              ▶ <div class="container">...</div>
                                                                              ▼<div class="comments">
                                                    • This is a comment #1
                                                                                ▼<h3>
      id: 'hsd355555',
                                                    • This is a comment #2
                                                                                  "Comments ("
      text: 'This is a comment #2',
                                                    • This is a comment #3
                                                                                   "4"
                                                                                  ")"
                                                    • This is a comment #4
                                                                                 </h3>
                                                                                ▼
      id: 'hsd399999',
                                                                                 ▶...
      text: 'This is a comment #3',
                                                                                 ▶...
                                                                                 ▶...
                                                                                ▼ == $0
      id: 'hkjg34nj2',
                                                                                   ::marker
"This is a comment #4"
      text: 'This is a comment #4',
                                                                                 ▶ <div at-magnifier-wrapper>...</div>
                                                                             </body>
        <h1>{title.toUpperCase()}</h1>
                                                                           </html>
        {body}
      <div className='comments'>
        <h3>Comments ({comments.length})</h3>
          {comments.map(comment => (
            id={comment.id}>
              {comment.text}
        export default App;
```

2.6 Conditionals in JSX

3 Components, props and state

3.1 Creating a Component and Props

3.1.1 How to create a new Component and use in in Main Component?

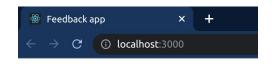
Create a new folder to store all the components feedback-app/src/**components**. Create your first Component – Header.jsx (or Header.js)

You can use snippet **rafce** (it comes from ES7+ React/Redux/React-Native snippets extension) to create a new **R**eact **A**rrow **F**unction **C**omponent with **E**xport – just type **rafce** and click **TAB** or **Enter**

```
# Header.jsx U X
src > components > # Header.jsx > ...

1    import React from 'react';
2
3    const Header = () => {
4    return <div>Header</div>;
5    };
6
7    export default Header;
8
```

import it in App.js



Feedback UI

My app

3.1.2 How to use Props with a Component?



My app

3.1.3 How to destructure and use props?

3.1.4 How to setup default props?

3.1.5 How to setup and use prop types?

You can use snippet **impt** (it comes from ES7+ React/Redux/React-Native snippets extension) **to IMport Prop Types** – **just type impt and click TAB** or **Enter.** It will add line **import PropTypes from 'prop-types'**

```
PropTypes from 'prop-types';
deader = ({ anyAttributeName }) => {
   1 import Header from './components/Header';
       const App = () => (
            <Header anyAttributeName={true} />
            <div className='container'>
                                                                         </header>
              <h1>My app</h1>
                                                                      Header.defaultProps = {
   anyAttributeName: 'Feedback UI!',
            </div>
          </>
                                                                      Header.propTypes = {
   anyAttributeName: PropTypes.string,
  10
       export default App;
                                  Feedback app
                                    → C (i) localhost:3000
                                               My app
                                               ▶ O top ▼ O Filter
                                               △ DevTools failed to load source map: Could not load content for cl
                                               A DevTools failed to load source map: Could not load content for c

⊗ ► Warning: Failed prop type: Invalid prop `anyAttributeName`
```

at Header (http://localhost:3000/static/js/bundle.js:106:5) at App

3.2 Adding styles to the Component

3.2.1 How to add inline styles?





3.2.2 How to add styles using a variable?

3.2.3 How to add styles using props and a variable?



3.2.4 How to add styles using default props?

