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List and Item

- List and Item is about splitting the responsibility of an Item deciding what to show and how to show it, while the List generates x number of Item components.
- For example in a product page you will have a List component that has an array of objects. The List component uses a loop to generate x number of Items.

List component

Array with information



Item component

The List component

- Contains an array with information.
- Generates Item components
 - Typically with ES6 .map function
- Passes down props to the Item components

The Item component

- The Item component is a component which is to be shown on the webpage.
- It will receive props from its List parent component

Key

- When generating Item components in the List component you will need to give each Item component a unique Key.
- The unique Key is for enabling React in knowing exactly which Item component on the page to update when necessary

Code example: Item

• The item is created for receiving props from List component.

```
Edit Selection View Go Run
                                      Terminal
File
                                               Help
                                                                       BlogpostItem.js - test - Visual Studio Code
   EXPLORER
                                               JS BlogpostList.js
                                                                     JS BlogpostItem.js X
                             JS App.js
 > OPEN EDITORS
                              src > components > JS BlogpostItem.js > [@] default
                                      import React from 'react';

√ TEST

   > build
                                      function BlogpostItem( props ){
   > node_modules
                                          return (
   > public
                                               <article>

✓ src

                                                    <h3>{ props.title }</h3>
    components
                                                    {p>{ props.content }
                                               </article>
     JS BlogpostItem.js
     JS BlogpostList.js
                               10
    # App.css
                               11
    JS App.js
                       М
                               12
                                      export default BlogpostItem;
    IE Anntostis
```

Code example: List

- The List component will need some data source. In this example a function cointaining an array of objects is called when generating Item components.
- This array may also be received from App or through an Ajax call.

```
Edit Selection View Go Run Terminal Help
                                                                      BlogpostList.js - test - Visual Studio Code
EXPLORER
                                            JS BlogpostList.js X
                                                                 JS BlogpostItem.js
                          src > components > J5 BlogpostList.js > \( \rightarrow \) BlogpostList > \( \rightarrow \) generateBlogposts > \( \rightarrow \) map() callback
OPEN EDITORS
                                  import React from 'react';
TEST
                                  import BlogpostItem from './BlogpostItem';
> build
> node modules
                                  function BlogpostList(){
> public

✓ src

                                       function generateBlogposts(){
                                           return getBlogposts().map( ( blogpost, i ) => {
 components
                                                return BlogpostItem
  JS BlogpostItem.js U
                                                    key={ "b" + i } title={ blogpost.title } content={ blogpost.content } /
 JS BlogpostList.js
                                           })
 # App.css
 JS App.js
 JS App.test.js
                                       return(
 # index.css
                                           <section>
                                                { generateBlogposts()
 JS index.js
                                           </section>
logo.svg
JS serviceWorker.js
 JS setupTests.js
  .gitignore
                                  export default BlogpostList;
{} package.json
{} package-lock.json
                                  function getBlogposts(){
                                      const blogpostArray = [
README.md
                                               title: "Nice weather",
                                                content: "The weather is going to be very nice today."
                                               title: "Bad weather",
                                                content: "The weather is going to be very nice today."
                                       return blogpostArray;
```

Code example App

 The App (or other appropriate component) imports the List component.

```
Selection View Go Run Terminal
                                               Help
                                                             App.js - test - Visual Studio Code
                                              JS BlogpostList.js
                                                                    JS BlogpostItem.js
  EXPLORER
                            JS App.js
                                         ×
 OPEN EDITORS
                                 JS App.js > [@] default
                                    import React from 'react';

✓ TEST

                                    import BlogpostList from './components/BlogpostList'
 > build
 > node modules
                                    function App() {
 > public
                                      return (

✓ src

                               6
                                         <div>

✓ components

                                           <BlogpostList />
                                         </div>
   JS BlogpostItem.js
                                      );
   JS BlogpostList.js
  # App.css
                              11
  JS App.js
                      М
                              12
                                    export default App;
  JS App.test.js
                              13
```

Reference

- Explains separation of responsibility:
 - https://reactjs.org/docs/higher-order-components.html#use-hocs-for-cross-cutting-concerns