React

Project name: Miss *Book*

A programmer has fled the building without implementing React on his app. Oh no! It’s a good thing we are React experts!

Build a React application that manages a book entity with the following structure:

```
{
    "id": "GXj93KOkqZoC",
    "title": "Hacking",
    "subtitle": "Digital Media and Technological Determinism",
    "authors": [
      "Tim Jordan",
      "Puki Ben David"
    ],
    "publishedDate": 2008,
    "description": "Hacking provides an introduction to the community of hackers and an analysis of the meaning of hacking in twenty-first century societies.",
    "pageCount": 160,
    "categories": [
      "Computers",
      "Hack"
    ],
    "thumbnail": " http://coding-academy.org/books-photos/1.jpg",
    "language": "en",
    "listPrice": {
      "amount": 19,
      "currencyCode": "ILS",
      "isOnSale": true
    }
  }
```

Build the BookService with a query function, that returns an array of books.
(copy from books.json and paste to the service file – do not use AJAX yet)

Build the following components:

<BookApp>

- Has a *books* state - an array of books, when component mounted – get the books from the service.
- Has a *filter* state object – null by default
- Has a loadBooks function – that will be called after the component mounted, and after updating the filter state – notice to call it only after the setState is done (use the setState cb function).

renders:

```
<BookFilter filterBy={this.state.filterBy} onSetFilter={this.onSetFilter}/>
<BookList onSelectBook={this.onSelectBook} books={booksToShow} />
<BookDetails book={selectedBook} onUnSelectBook={this.onUnSelectBook} />
```

<BookPreview>

- Props: book
- Displays the book title and price, use switch-case for currency icon

<BookList>

- Props: books, selectBook()
- Render a list of <BookPreview> passing down a book prop
  Show the books as cards (side by side)
- When a book is clicked – invoke the selectBook function with the selected book id (only one book can be selected)

<BookDetails>

- Props: book
- Show entire details
- Based on pageCount, display also the text:
  - > 500 – Long reading
  - > 200 – Decent Reading
  - < 100 – Light Reading
- Based on publishedDate, display also the text:
  - > 10 years ago – Veteran Book
  - < 1 Year – New!
- Set className based on price, show in color:
  - > 150 – Red
  - < 20 – Green
- If the book is on sale – show a nice SALE sign

- Show only 100 characters of the description and add read more/less that toggles the rest of the text TIP: build a component that can be used like this:

```
<LongTxt text={book. description} isLongTxtShown={this.state.isLongTxtShown} />
```

<BookFilter>

- Allow the user to filter the books list by name and by price range
- Invoke the `setFilter` function given by the props to change the state of <BookApp> when filter button is clicked.