

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": "GXj93K0kqZoC",
  "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:

<book-app>

- 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 in the loading of the component , and after setting 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}></BookList>
<BookDetails book={selectedBook} onUnSelectBook={this.onUnSelectBook}></BookDetails>
```

<book-preview>

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

<book-list>

- Props: *books*, *selectBook()*
- Render a list of *<book-preview>* 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)

<book-details>

- 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}/>
```

<book-filter>

- 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 <Book-App> when filter button is clicked.