

Maintainer: Gabriel Saruhashi

2021 SWE Product Coding Challenge

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Thanks for interviewing for the Software Engineer position! We'd like to see an example of how you work through a small code exercise. It's a tiny React app.

Please spend no more than 3-4 hours on this exercise and then submit your progress. Push your code and answers to a private Github repo and share it with @gabrielsaruhashi, @cainlevy and @freedomben.

Please divide your time to make at least some progress on each of the main requirements (namely “view list of books”, “view book”, “add book”) . If you have time to spare, please consider adding something that reflects your strengths as a software engineer.

Coding Task

Please use **Javascript** or **Typescript (ES6+)** for this task (bonus points for TS)!

Setup

Please use [create-react-app](#) to get started, along with any additional packages or templates that help you be productive.

Commit your work incrementally with git. We will look at your commit history for insight into your problem-solving.

Task

View the list of books

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Please refer to this [file](#) to access the dataset (sorry for choosing such a boring list: the JSON was so neatly formatted).

Display the list of books in a list format.

A couple of notes:

- The dataset is not complete (i.e there are some missing fields in the JSON list). Feel free to treat these missing fields as nullable/optional.
- You're welcome to transform and clean up the data as needed

Add a book

Create an input form to collect the following information about books:

- Title
- ISBN
- Page count
- Published date
- Thumbnail URL
- Short description
- Long description
- Authors
- Status
- Categories

Validate each field using your discretion. Add the new book to the existing list of books and then reset the form.

Write at least one simple test case.

It's okay if this is not pretty. Focus on making it functional and usable.

View a book

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Create a subpage that allows you to view details of a specific book.

We recommend using [react-router](#) if you don't have a strong preference for a routing solution.

Fun stretch goals

In case you have extra time, here's a non-exhaustive list of cool stretch goals you could work on:

- Create a subpage that displays a list of the latest New York Times best sellers using the [NYT API](#)
 - Implement a loading state/UI while waiting for the API to return
- Implement support for “dark mode” using React Context or any other form of global state management
- Make it mobile responsive
- Styling! Check out [Goodreads](#) for inspiration

Reflection

As developers, we know there is always room for improvement! 3 hours is not a lot, and we don't expect you to come up with the most optimal solution in this short amount of time.

We'd love if you could write a short paragraph describing (bullet points are fine):

- Were there any trade offs you considered when prioritizing this task?
- What would you add/change if you had more time?