

Online Test - Frontend Engineer

Background

Sejutacita is looking to expand its Booku service to web application. We invite you to help us designing and creating a working web application of Booku.

To understand how Booku works, you can install Sejutacita application from the following links:

- App Store (iOS): <https://apps.apple.com/us/app/sejutacita/id1534169929>
- Play Store (Android): <https://play.google.com/store/apps/details?id=id.sejutacita>

API

We expose two API sets that you can use to develop the web service:

- Category API
- Book API

Category API

Base URL: <https://asia-southeast2-sejutacita-app.cloudfunctions.net/fee-assessment-categories>

Path	Method	Description
/	GET	Returns the list of available categories

Book API

Base URL: <https://asia-southeast2-sejutacita-app.cloudfunctions.net/fee-assessment-books>

Path	Method	Description
/	GET	<p>Available query parameters:</p> <ul style="list-style-type: none">• <code>categoryId</code> filters the selection based on the id of category where the books belong• <code>page</code> filters the selection based on the page where the books belong. The page starts from 0 . Negative input is invalid• <code>size</code> determines the maximum number of books existing within a single page. Negative input is invalid <p>If <code>page</code> is valid but <code>size</code> isn't mentioned, then <code>size</code> defaults to 10</p> <p>If <code>size</code> is valid but <code>page</code> isn't mentioned, then <code>page</code> defaults to 0</p>

Requirement

The requirement of the web application is described as the following:

- It needs to be built using React.js, Typescript isn't compulsory but will be a plus point
- It has to be responsive. The layout needs to be adaptive across different devices
- It has to support pagination. The users will only be shown the page selected by them. The other pages shouldn't be loaded if not necessary
- A locally-stored bookmarking feature needs to be provided so the users can pin their favourite books and browse it easily in a dedicated `Bookmark` section
- When a user is viewing the list of books of a category, a search feature is required to help him/her easily find the books based on title or author. There's no Search API provided, the user is only allowed to search from the list already retrieved previously.
- The source code has to be available in github.com

Feedback

After the assignment is complete, please help Booku backend team to improve the API's quality by providing your feedback about the API. Is it good? Can you suggest any improvement?