

INTRODUCTION

WHAT ARE THE BOOKS ONLINE LIBRARY?

A simple application helps readers to get all the necessary information about books, searching for books based on different unique keys with additional personal space for favorite books.

TECHNOLOGY CONSTRAINTS

At the digital factory, we currently have a JavaScript web application s We would like you to develop this application in Angular. We do not expect you to build the API we would like you to use the below provided API.

WHAT ARE WE LOOKING FOR?

Architecture: Application structure should be well organized and maintainable.

Code Quality: Well-structured, readable, and maintainable code.

User Interface: Responsive design, intuitive user experience.

Error Handling: Properly handle API errors and user input validation.

Angular Best Practices: Proper use of Angular features, services, components, and modules

WHAT ARE WE NOT LOOKING FOR?

We do not expect rich designs, just keep it simple and friendly.

DELIVERY CONSTRAINTS

You are not allowed to mention the name of (BanqueMisr- Digital Factory) in your deliverables, breaking this rule consider yourself disqualified.

EXTERNAL RESOURCES

REST APIs link: <https://openlibrary.org/developers/api>

Please consider read the API Documentation carefully before starting, and be careful with your server request per minute to avoid being blocked by the Server (do not fall into API calling loops while coding)

TECHNICAL REQUIREMENTS

Please Consider the Following

GIT

- Push your code to a Git repository using (GitHub, GitLab, Bitbucket, Azure Repos) only.
- Keep your development history intact and in multiple commits as you see fit.

STRUCTURE

- Utilize modularity and clean patterns.
- Thin in app future while you design the structure.

STYLE

- Utilize your own Sass for styles as much as possible instead of relying totally on UI Frameworks (ex. Bootstrap, etc.).
- Application should be responsive (Mobile/Desktop)
- Application should be color friendly and content easy to read and access.
- Using Tailwind will consider bonus.

TYPESCRIPT

- Utilize Typescript features such as Interfaces/Types in your code when feasible.

RXJS

- Utilize operators when feasible.

FORMATTING/ LINTING

- Make sure that your code is formatted and free of linting issues.

UNIT TESTS (BONUS)

- Include simple unit test when feasible.

DOCUMENTATION (BONUS)

- Include sample of documentation practices you are familiar with

BUSINESS REQUIREMENTS

Focus on doing fewer stories but doing it right, and doing all is good for sure.

STORY 1 - HOME PAGE STORY

As a user I want to land on the book library application home page with the following features.

I should see the application header with app logo, and main pages links (Home, Search, Favorite)

I should see a grid of 9 books (3 x 3) with books from “Finance” Subject, each grid item should contain: book cover, publish date, author/s name/s)

Take only the first 9 books in the response and render it, using Get by Subject API.

Books with no covers should contain a default placeholder.

STORY 2 - BOOK DETAILS PAGE STORY

As a user I want to see the details page of any book anywhere in the application by clicking on book cover or book name or more button

Organized details page with the following list of content (First-Publish-Year, Book title, Author/s Names, Editions-Count, No. of Pages)

Design and orientation are up to you.

STORY 3 - AUTHOR DETAIL PAGE STORY

As I user I want to see the details page of any Author anywhere in the application by clicking on the author’s name.

Page should contain the following information about the author (Author photo, Author Name, Birth date, Work count, top 5 subjects)

Get only the first 5 subjects of that Author in the author’s details response.

STORY 4 - SEARCH STORY (BONUS)

As a user I want to be able to search for different books from search page based on the following

I can search using Title, Author Name, Subject by selecting the search key from dropdown beside the search input field.

Error cases should be handled.

Search results to be limited to the first 9 books (3 x 3 Grid) matching the search criteria.

Take only the first 9 books in the response and render it.

STORY 5 - WISHLIST STORY (BONUS)

As a user I want to be able to add any book to my Wishlist of books, from books listing anywhere in the application or from book details page and manage my Wishlist from favorite page.

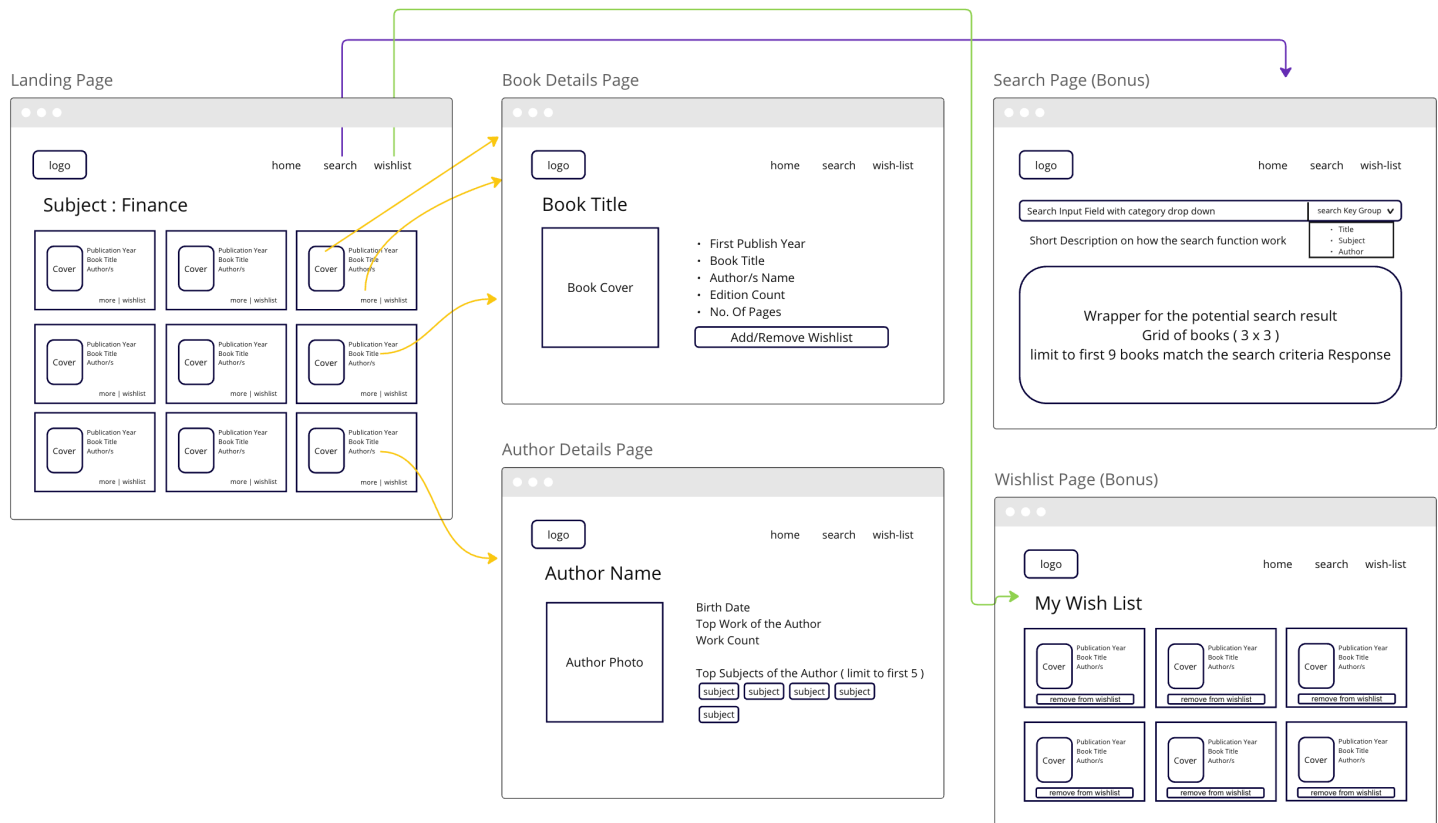
I can add any book by clicking on the Wishlist icon/button in the listing with toaster/popup.

I can remove any book from my Wishlist list by clicking on favorite book icon/button with prompt question before removing.

I can see a listing of my Wishlist (3 x 3 Grid) on the Wishlist page.

DESIGN WIREFRAMES

Use this as a reference but feel free to be creative.



Wireframes (high quality) Link:

<https://miro.com/app/board/uXjVNqLZiok>