BOOK FINDER APPLICATION

Low-Level Design Document

Document Version Control

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Contents

Abstract

The book finder application is a website where users can find trending books right now and also, they can search for the books and view detailed information about the books. This application uses the Google Books API to fetch the metadata of the books. Using this application users can browse the books by the title, author, and descriptions of the books.

1. Introduction

1.1 Why this Low-level Design Document?

The purpose of this document is to provide a detailed description of The Book Finder application. We will explain the features and purpose of the application and explain each and every component used in our project.

1.2 Scope

The main objective of The Book Finder Application is to provide an environment for the user to search and find details of the book they want to read

1.3 Constraints

We can only find the books which are present in the Database of Google Books API. It has a huge collection of books but can be considered as a limitation.

1.4 Out of Scope

Features like login and storing user data in the database for further use are out of scope for this project

2. Technical Specifications

2.1 Javascript Libraries

The application we are building can be made into single page application for the user so it is better to use Javascript libraries like ReactJS, for better bug detection we have used Typescript along with core features of the React Library

Tools	**Version**
React	18.2
Tailwind CSS	3.2.7
Typescript	4.9.5
Axios	1.3.4

2.2 Linters

To maintain good standards across the project we have used Javascript Linters to weed out the potential bugs and errors in code

Library	Version
ES Lint	VS Code Built-in
Prettier	2.7.0

2.3 API

To fetch the data of the books we have used google books api provided by the google. And Axios library

Name	Source
Google Books API	https://developers.google.com/books/

2.4 Deployment

To Host our application we have chosen Netlify as a hosting provider because it is free and fast for hosting small projects

3. Technology Stack

The Book Finder App is a frontend Application, hence we are using Google’s book API service to fetch the data of the books. Detailed Breakdown of all Technologies are given below:

3.1 Frontend

React Typescript	Render Application
Tailwind CSS	Styling The Application
Axios	API Library

3.2 Backend

Google Books API	API to fetch Book data

4. Proposed Solution

For the Book Finder Application we have decided to use Google Books API to fetch the data of the books and build a frontend UI to display the books and their details to users using our application

5. Work Flow as a User:

A User should be able to input in the search input box and get the list of books along with details according to the searched query. They should be able to view the details of the books through our User Interface

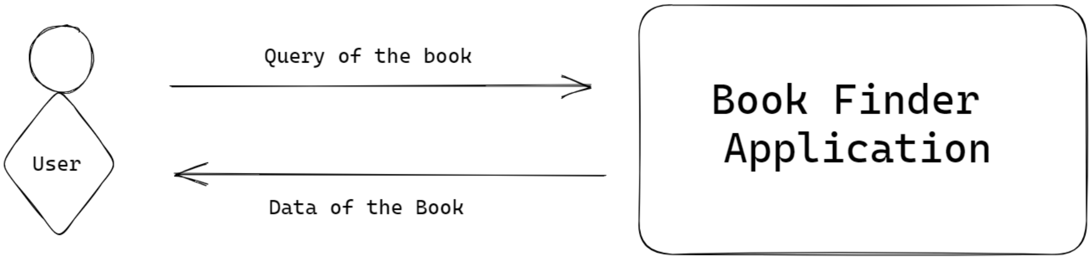

Figure 2: Workflow for user