

BOOK
PALETTE

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INTRODUCTION

The Book Palette system is designed for book management. This webpage, built using technologies such as ReactJS, NodeJS, PostgreSQL, and many others, aims to facilitate book maintenance and history.

Through a simple and intuitive graphical interface, you can add books, edit information of already stored books, delete older or no longer existing books, and search by title, author, or genre.

Book Palette 							
Add Book 		Search		CSV 		JSON 	
Title	Author	Genre	Publication Date	ISBN	Actions		
the name of the wind	patrick rothfuss	fantasy	3/6/2007	9780756404776			
the wise man's fear	patrick rothfuss	fantasy	3/1/2011	9780756406220			
a game of thrones	george r. r. martin	fantasy	8/1/1996	0553103540			
the midnight library	matt haig	fantasy	8/1/2012	9780007466127			
the alchemist	paulo coelho	fiction	3/1/1988	9788501058400			
a tale of two cities	charles dickens	classic	4/30/1859	142310620			
the little prince	antoine de saint-exupéry	children's	4/6/1943	9782253040000			
pride and prejudice	jane austen	romance	1/28/1813	184171356			
the hobbit	j. r. r. tolkien	fantasy	9/21/1937	0618260307			
1984	george orwell	dystopian	6/8/1949	0451524934			
the lord of the rings: the fellowship of the ring	j. r. r. tolkien	fantasy	7/29/1954	0618346007			
the name of the rose	umberto eco	mystery	1/1/1980	8501007462			

FIRST STEP

To start using the application, you will need to access GitHub and download the necessary files. Below is the README.md file, which is also available in the GitHub repository. In this document, in addition to covering some more technical topics, you will find all the necessary information to run the entire project.

How to Run the Project

Prerequisites:

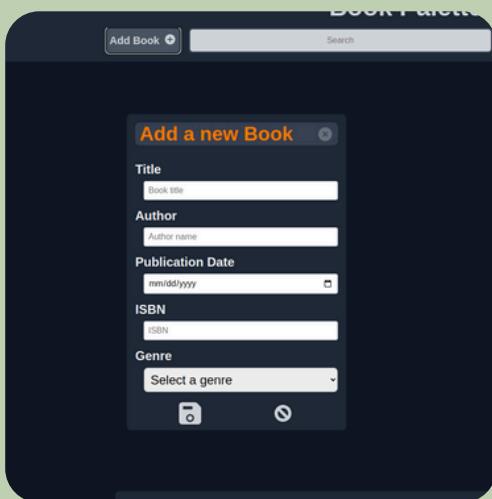
- Node.js (minimum version 14.x)
- PostgreSQL installed and configured (with a database created for the project)
- Git installed for cloning the repository

Installation Steps:

- Clone the repository:
• `git clone https://github.com/amaralBruno27866/PaletteOfBooks.git`
- Navigate to the project folder:
• `cd PaletteOfBooks`
- Install project dependencies:
• `npm install`
- Set up the PostgreSQL database:
 - Create a PostgreSQL database using your preferred method.
 - Update the .env file with your PostgreSQL credentials (database name, username, password, and host).
- Run the database migrations: This will create the necessary tables for the project.
• `npx sequelize-cli db:migrate`
- Start the backend server:
• `npm run dev`
- Access the application: Open your browser and go to:
• `http://localhost:3000/`

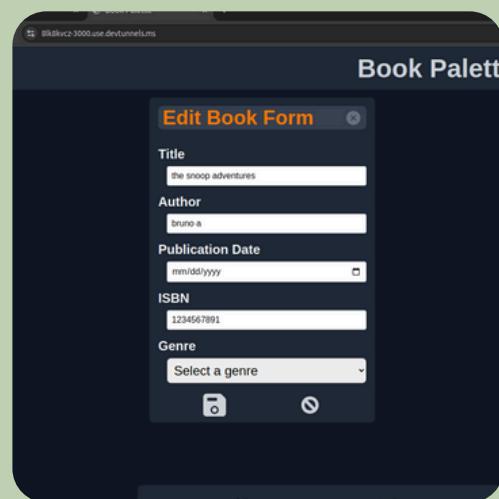
Book Palette

FEATURES



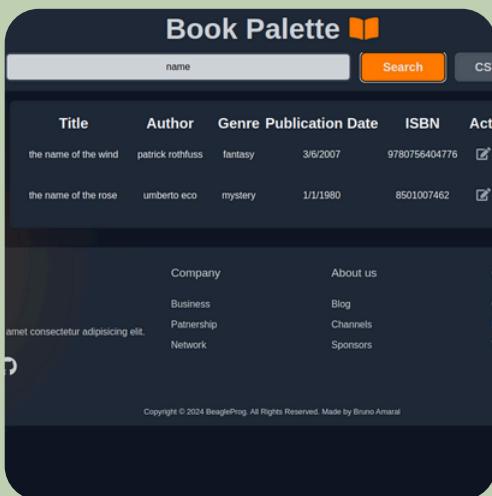
Add a new book

By clicking on the Add Book button located in the navigation bar, a form will open where you can enter basic information such as title, author, publication date, and genre, for example. Note that the form also has three buttons: at the top, there's an "X" button that closes the form, a button with a disk symbol that saves the data to the database, and a button with a cancel symbol that cancels the transaction.



Edit a book

This form is essentially the same as the one for adding a book, with the same fields and buttons with the same functionalities. The difference here is that the form is already filled with the data of the book you selected from the list by clicking the edit button located at the end of each row in the table. In the same row, there is also a trash can button, which deletes the book record from the database.



Make a search

In the search field located in the navigation bar, you can search within the database. Simply type a keyword into this field and click the "Search" button. The search will be performed, and if there is a match for your keyword in the database, the result will be displayed in the list.

Book Palette					
Name		Search		CSV	
Title	Author	Genre	Publication Date	ISBN	Actions
the name of the wind	patrick rothfuss	fantasy	3/6/2007	9780756404776	
the name of the rose	umberto eco	mystery	1/1/1980	8501007462	
Company		About us		Contact	
Business		Blog		Privacy	
Partnership		Channels		Terms	
Network		Sponsors		Help	
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Export in CSV and JSON files

To facilitate the transfer and use of the information contained in the database, two buttons were created to export all content in two different formats. The first is the CSV format, which can be opened in a spreadsheet like Excel, for example. The second is in JSON format, which can be opened in a text editor like Notepad. This way, you can use this information in other systems.

USER CASE

O1 RECEIVING NEW BOOKS

Let's say you've received a new shipment of books and you want to catalog them. Upon logging into Book Palette, the user immediately sees the list of books they currently own.

To ensure they don't already have any of these books in the database, they decide to perform a quick search. One of these books is *1984* by George Orwell. After searching for "1984," the system detects that this book already exists, so it won't need to be registered again.

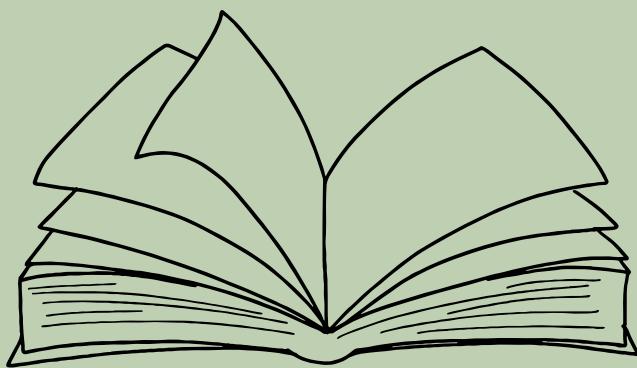
The screenshots illustrate the Book Palette application's user interface. The top screenshot shows a search result for the book '1984' by George Orwell. The middle screenshot shows an 'Edit Book Form' dialog for a book titled 'Snoopy Falls'. The bottom screenshot shows a CSV download dialog with a file named 'books.csv' being saved to the 'Downloads' folder.

O2 REVIEWING YOUR BOOKS

After finishing adding all the books, you review everything you've entered and notice that one of the books has the title and genre incorrect. You decide to edit this information, so you perform a new search and find the book. You click the edit button, which opens the form for you to review the details.

O3 EXPORTING THE DATA

Now that everything is organized and checked, it's time to update a spreadsheet you have for tracking additional information that isn't suitable for storing in the database. To do this, you use an Excel spreadsheet, so you click the CSV button and download all the content from the database.



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