



Book Management system

Zahra Al showiheen 2210003655

Aisha Alshayie 2210003560

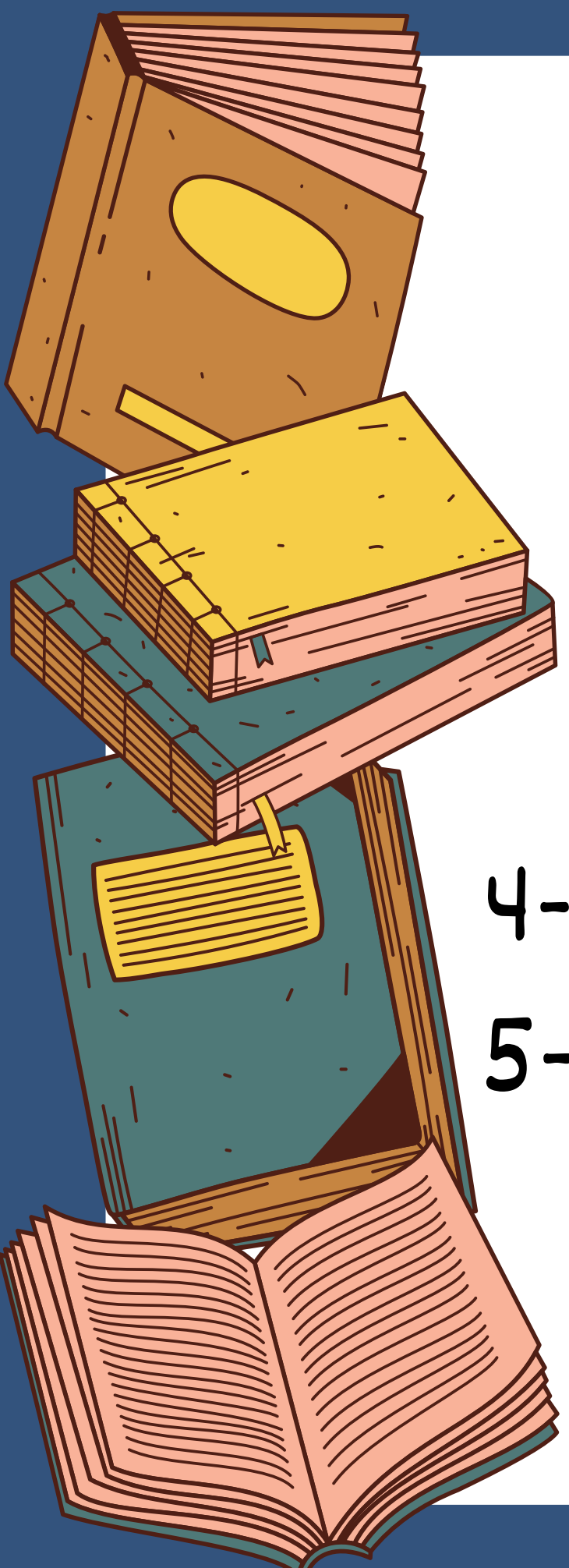
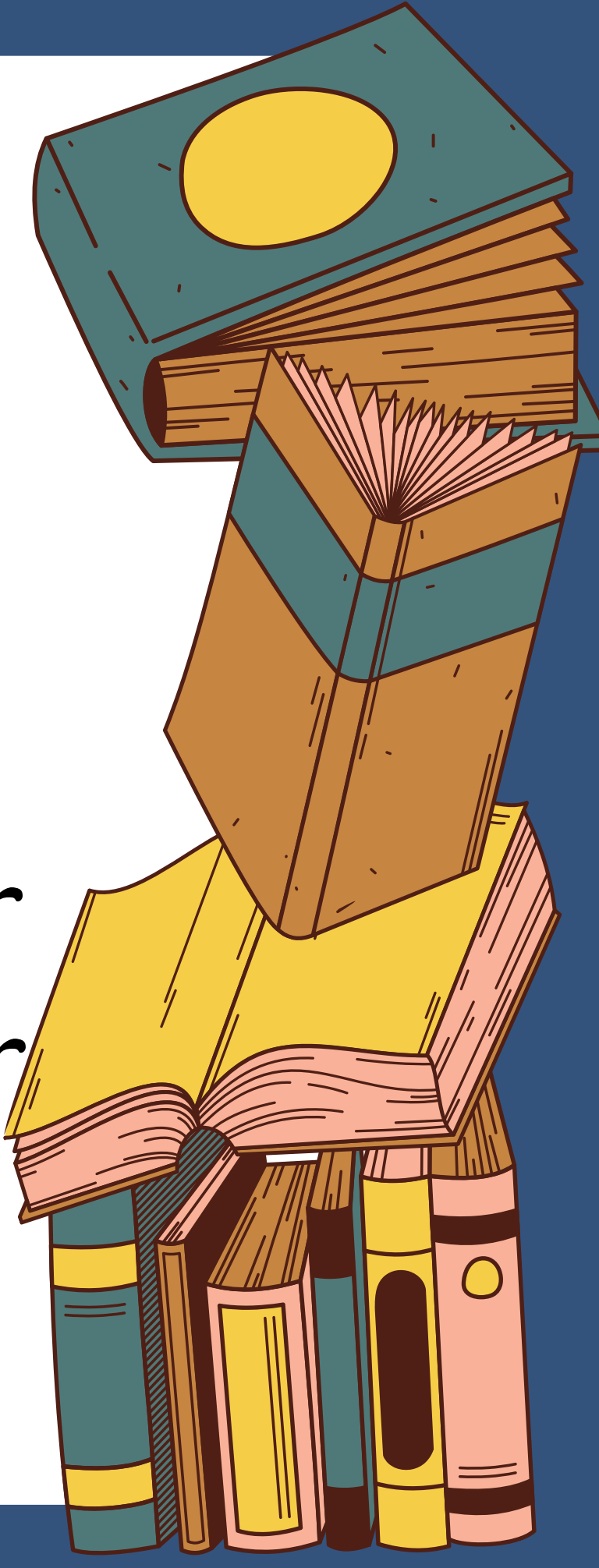
Hoor Alsawaf 2210003647

Batool al Salim 2210003514

Fatimah Al Jaffal 2210003646

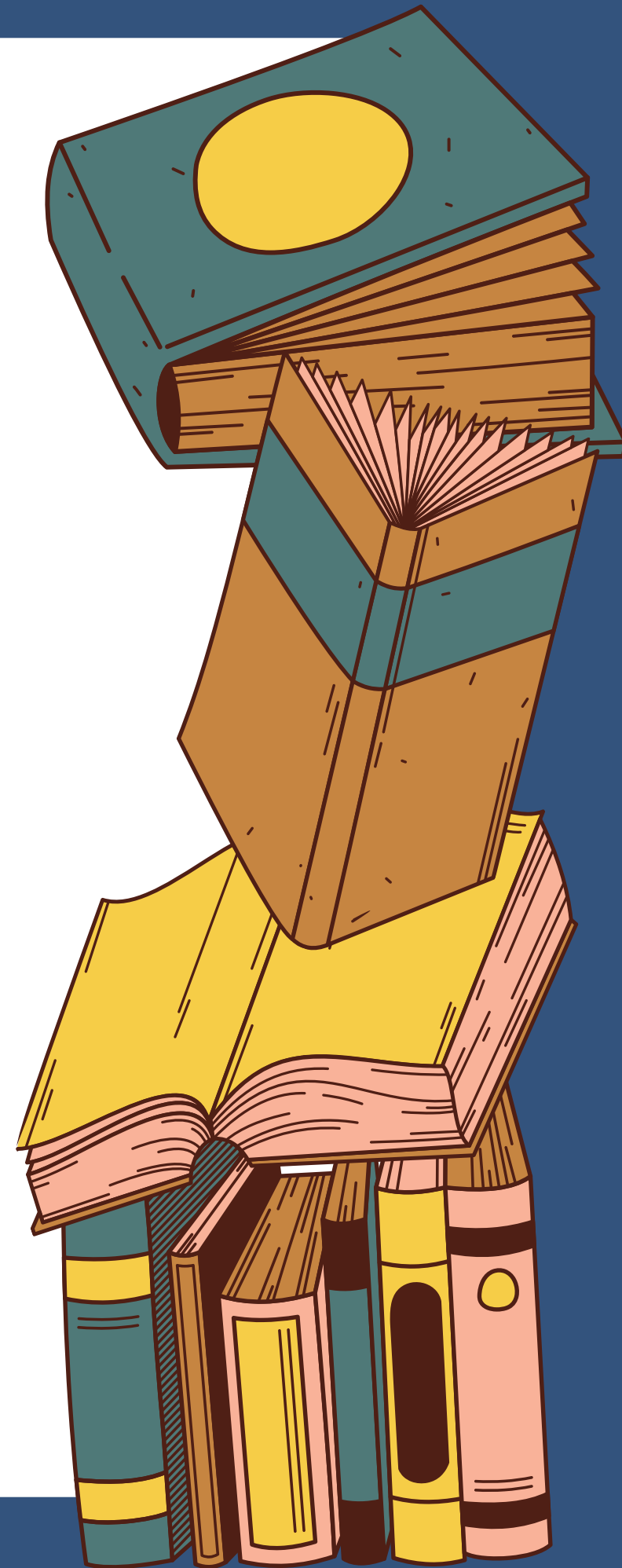
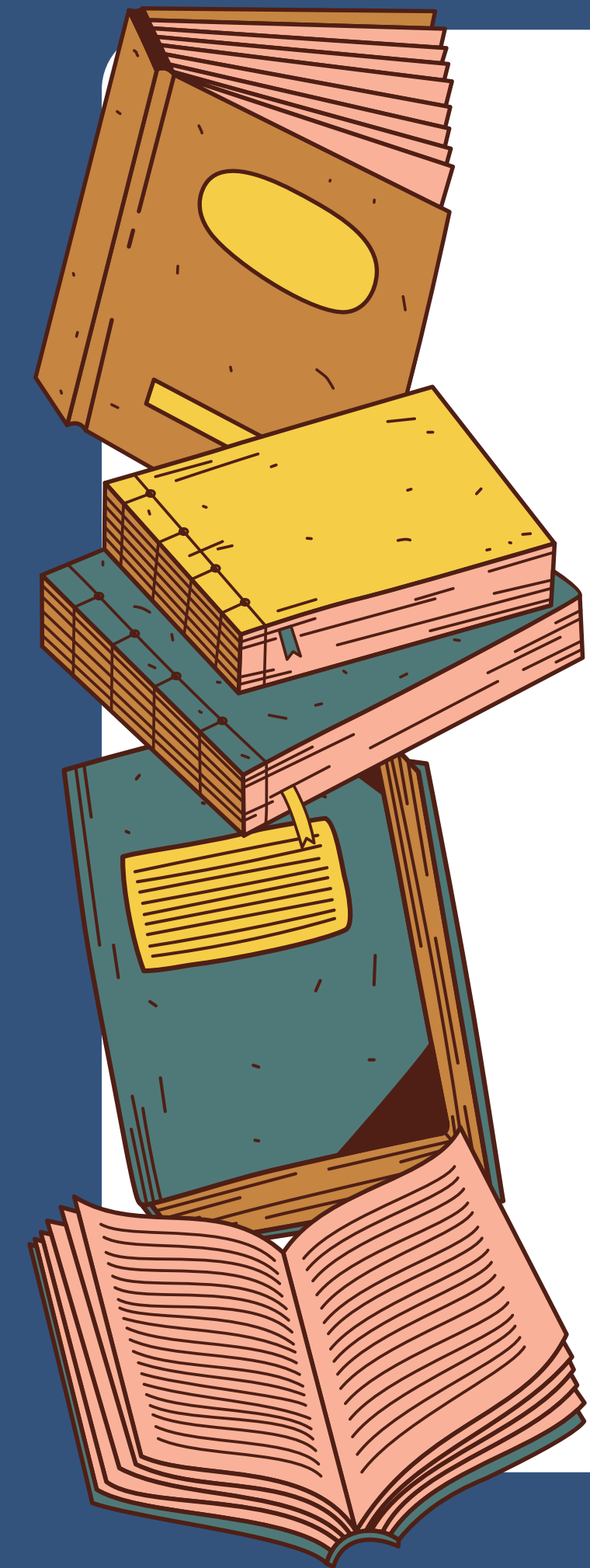
Data Structure Project



- 
- 
- 1- Idea
 - 2- Goal of the Program
 - 3- Program characteristics:
 - 4- Main Characters and Their Administrator
 - 5- Main Characters and Their Administrator

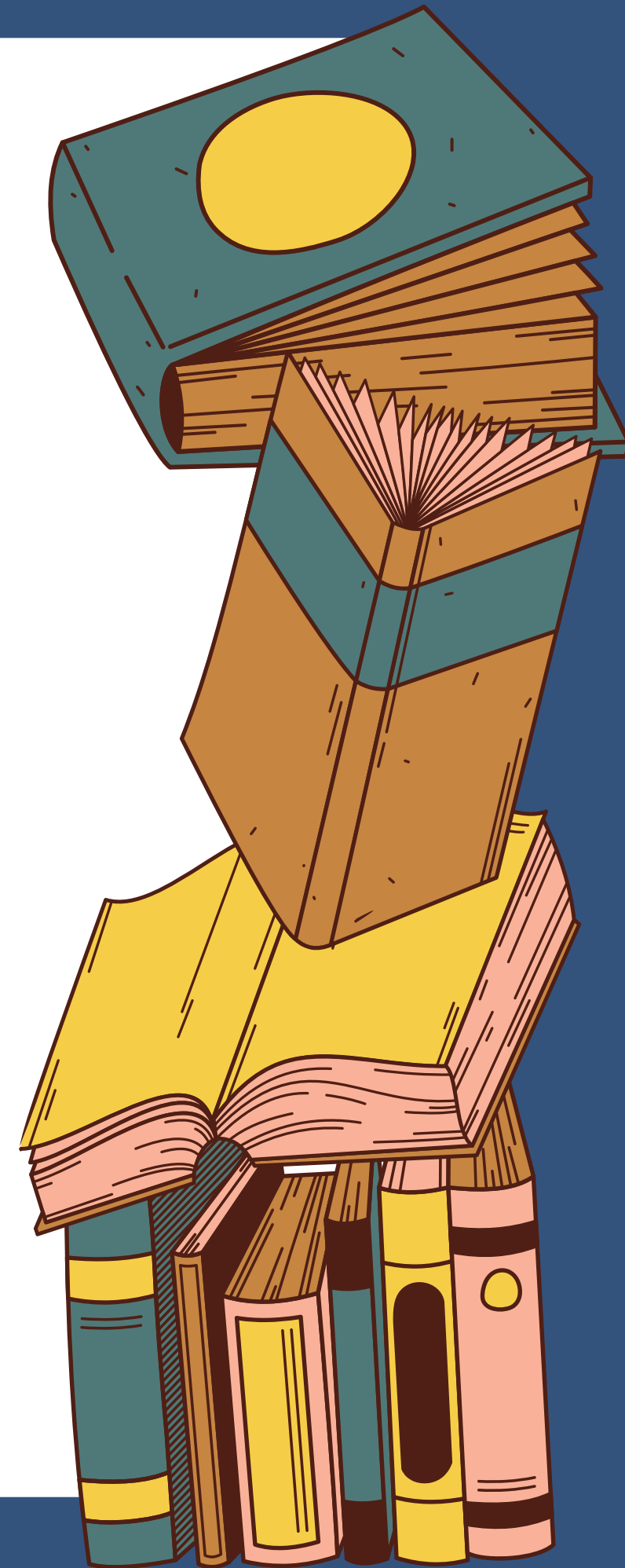
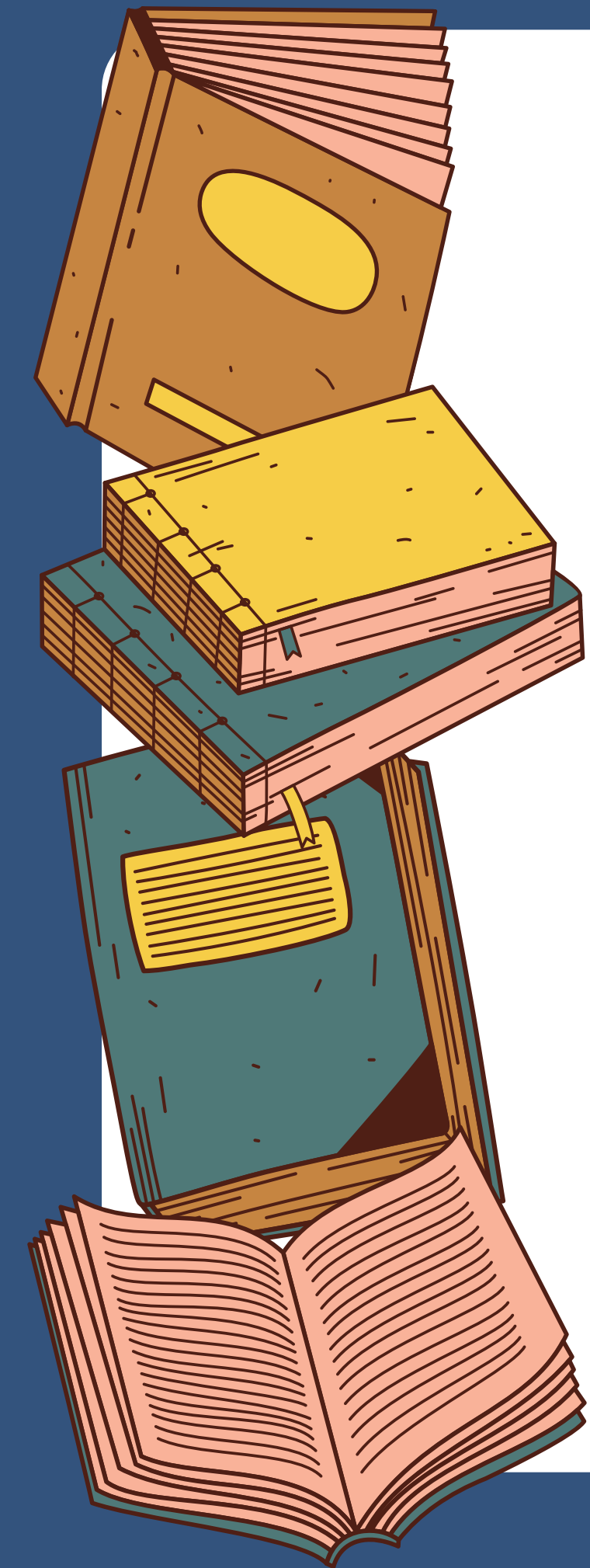
1- Idea

The Books Management System is a Java application designed to efficiently manage a collection of books using a Linked List data structure. The system provides essential functions for administrators and users to add, delete, update, and search for specific books within the database.



2- Goal of the Program

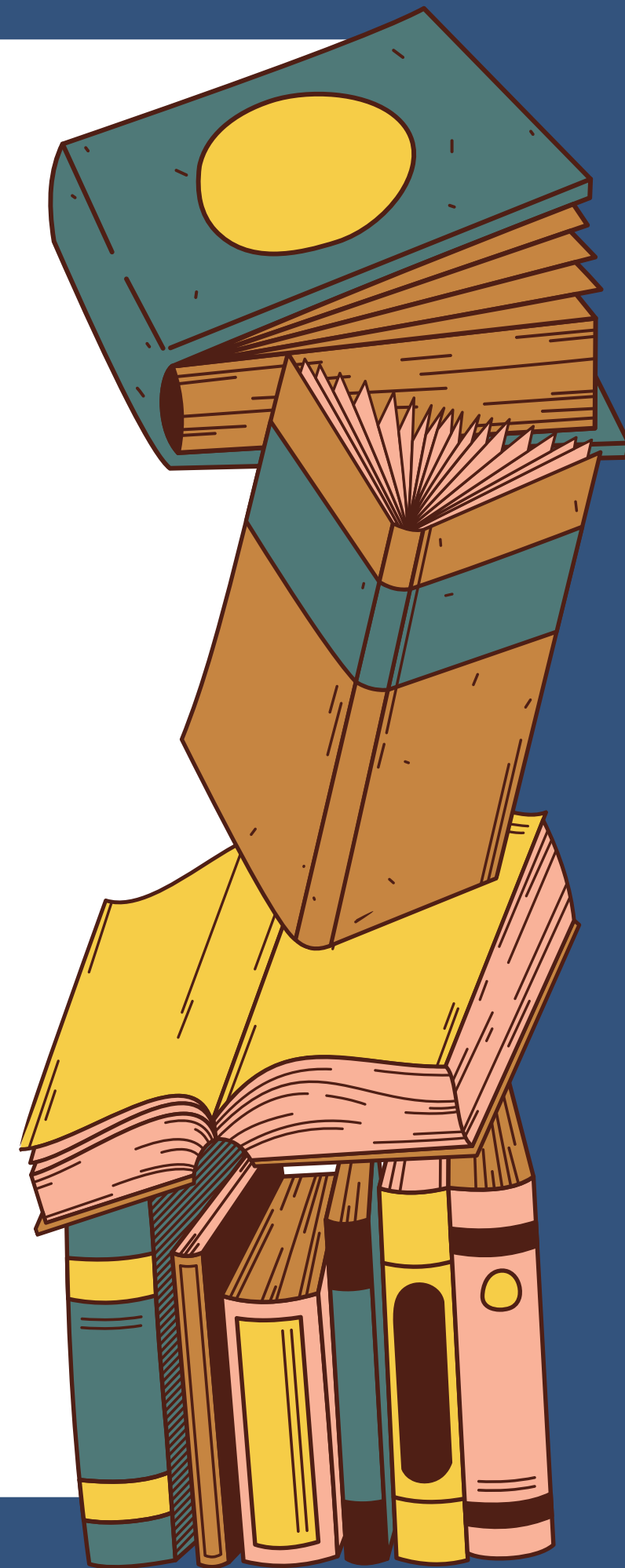
The goal of the program is to streamline the management of a book inventory by implementing a user-friendly interface and employing the Linked List data structure to efficiently handle operations such as adding new books, removing existing books, updating book information, and searching for specific books.





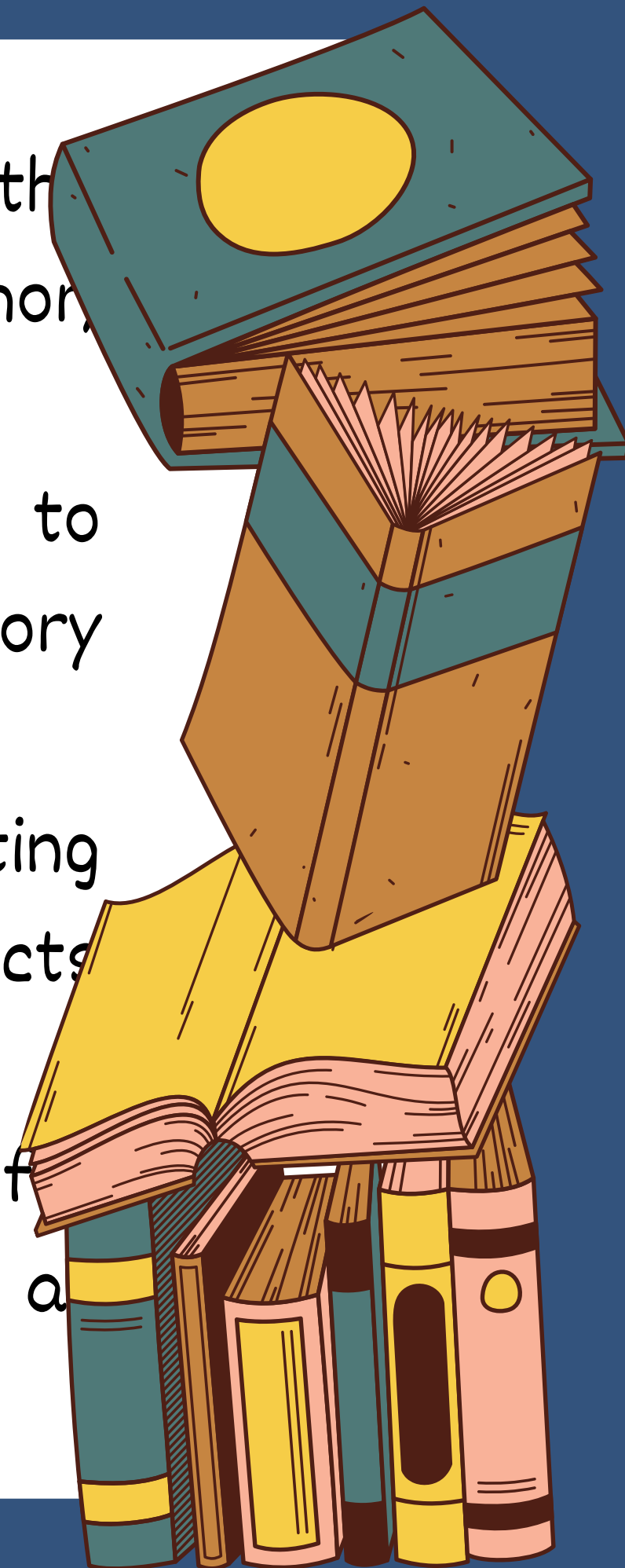
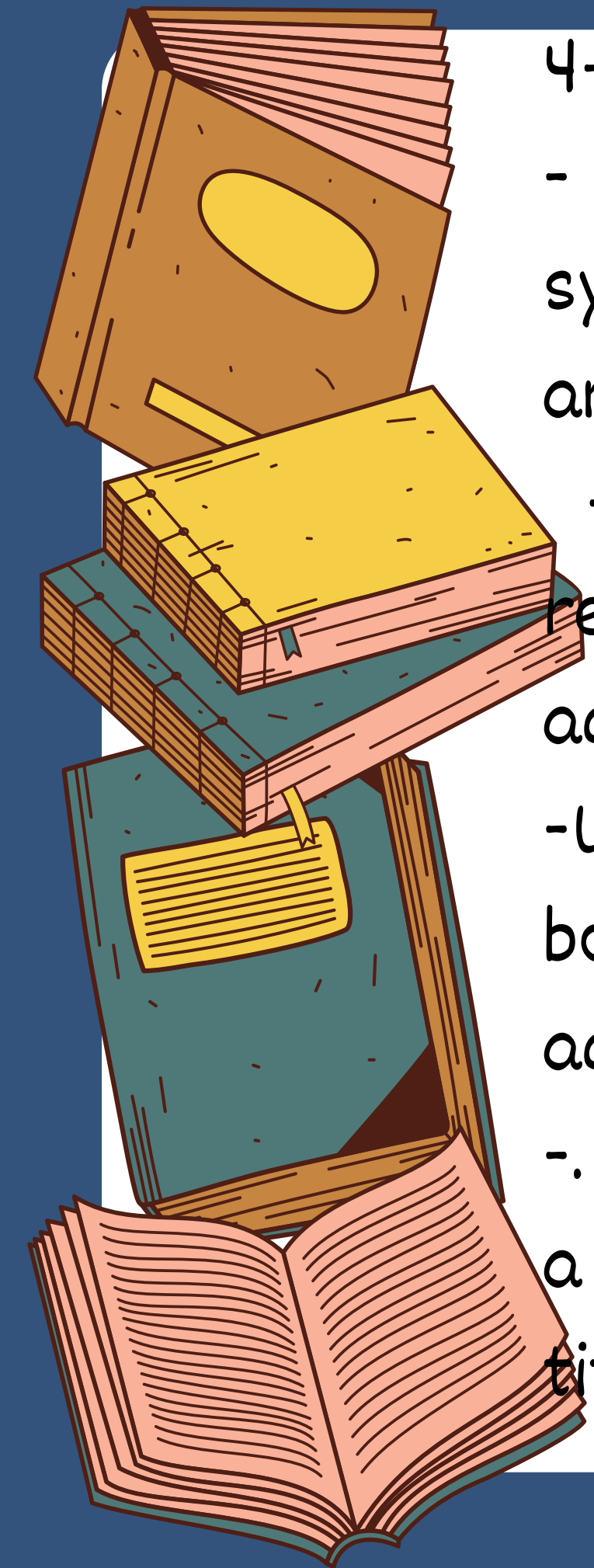
3- Program characteristics:

- Allowing entry only to authorized persons
- Home delivery
- Adding and requesting more than one book
- There are many services




4- Main Characters and The Administrator:

- Add Books: The administrator can add new books to the system by providing relevant details such as title, author, and other necessary information.
- Delete Books: The administrator has the authority to remove books from the database, updating the inventory accordingly.
- Update Book Info: The administrator can modify existing book information, ensuring that the database reflects accurate and up-to-date details.
- . Search for Specific Book: The administrator can search for a specific book within the system based on criteria such as title, author.

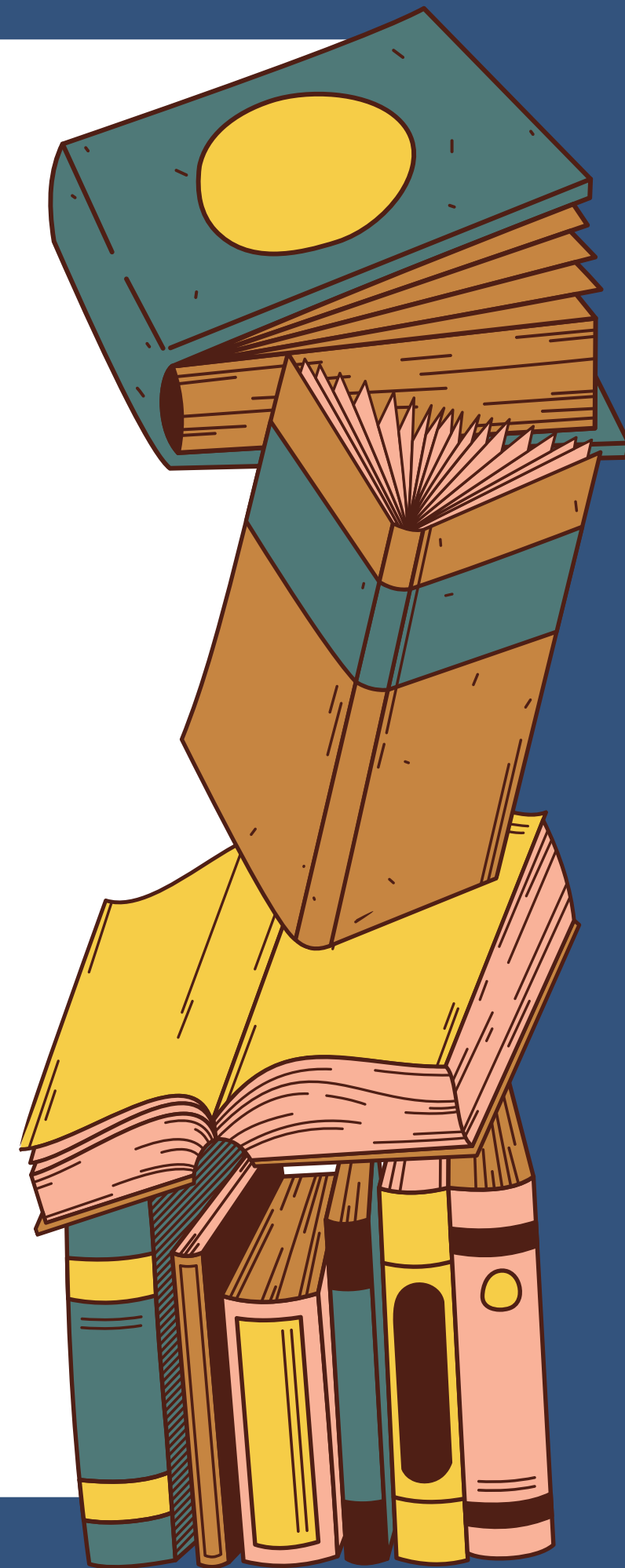
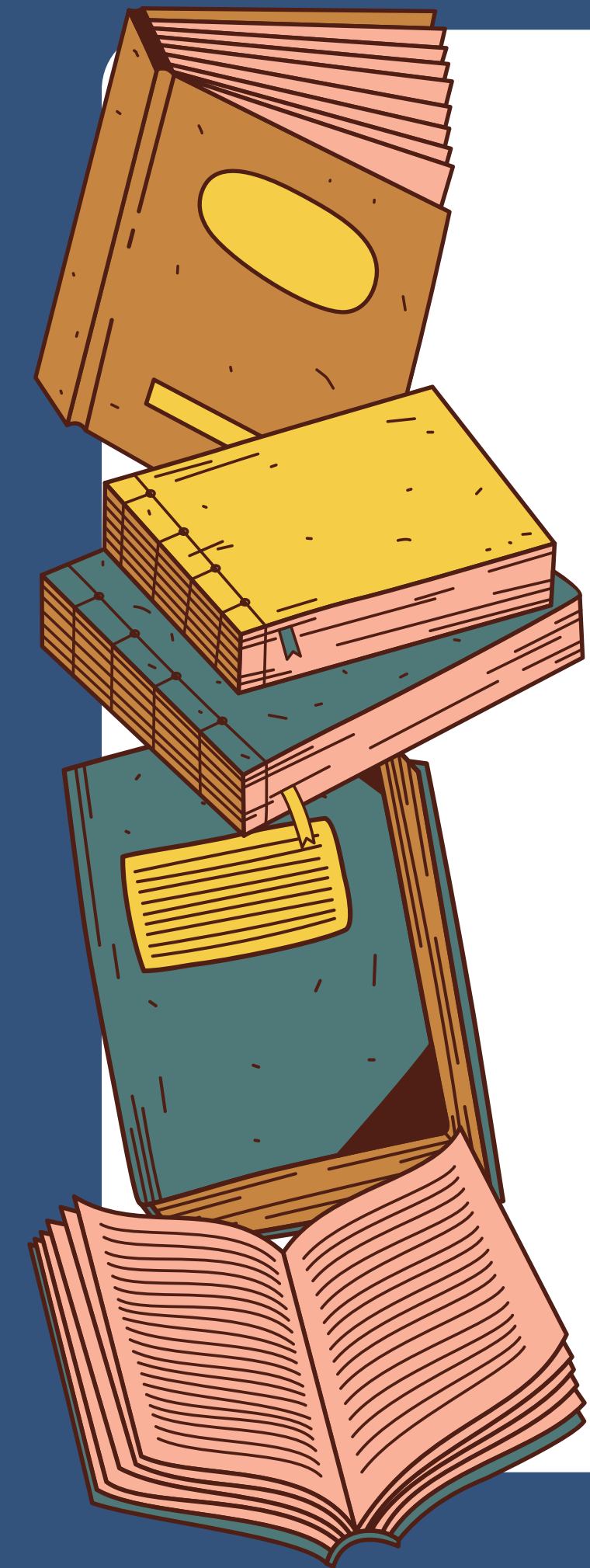




5- Main Characters and The users :

- Search for Books: Users can search for specific books based on various criteria, making it easy to find desired titles.
 - View Book Details: Users can view detailed information about a particular book, helping them make informed decisions.
 - Buying or borrowing various books, and they can be request for delivery to his home
- 

Implementation



In conclusion, the Books Management System provides a practical and efficient solution for organizing and managing books using a circular linked list data structure. By addressing initial challenges through robust implementation and intuitive design, the system offers users a seamless experience for book management. Further enhancements and optimizations can be explored to improve the system's functionality and user satisfaction, ensuring its continued relevance and effectiveness in book management scenarios.

