



Week 3 Progress - Inventory Management System

Laurent
Abdellah



Project Overview Recap

- Error handling for better user experience.
- Modify the add and update functionalities to use author IDs instead of names.
- Implement data validation and custom error messages for every scenario.

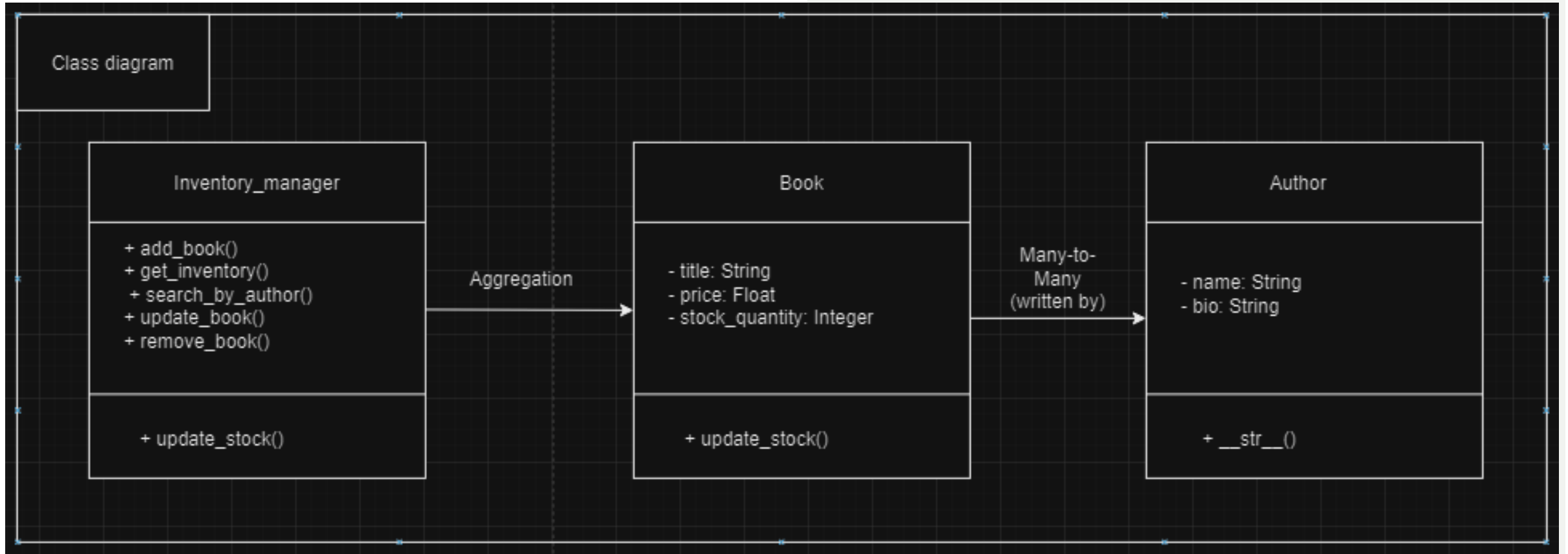


Week 3 Feedback Integration

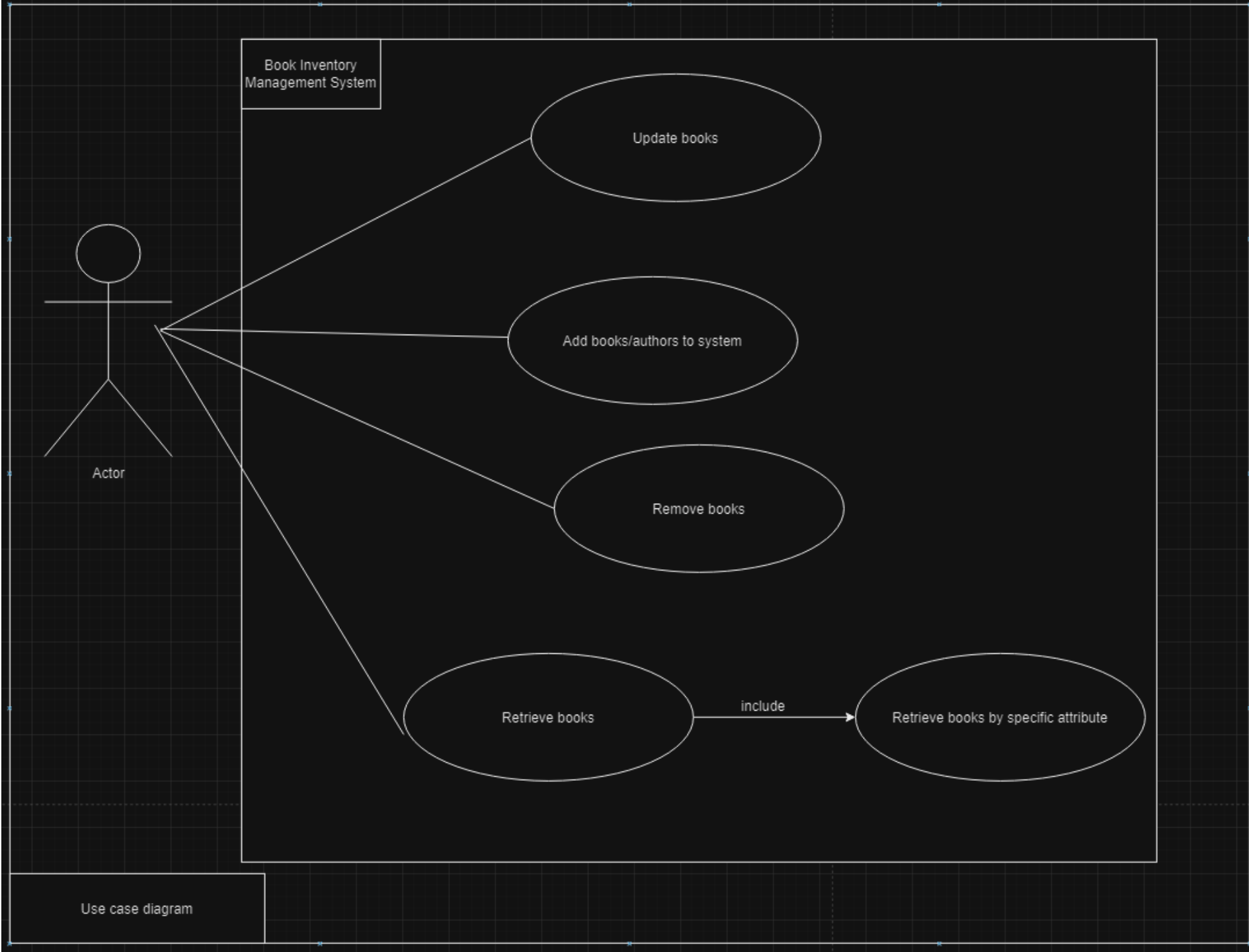
- Add author IDs for better data handling.
- Ensure meaningful error messages for all cases.
- Updated all views to use author IDs.



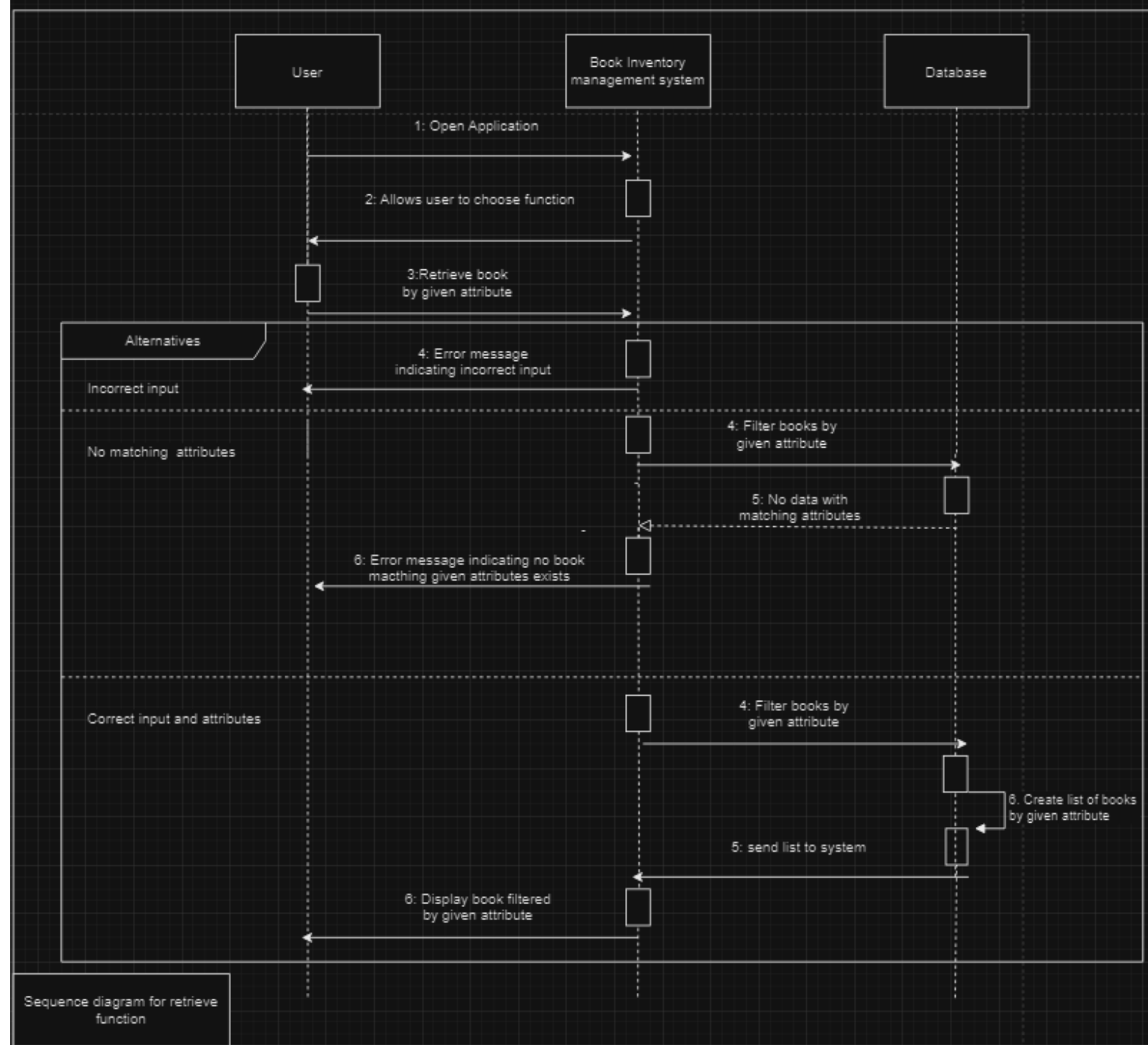
Class diagram



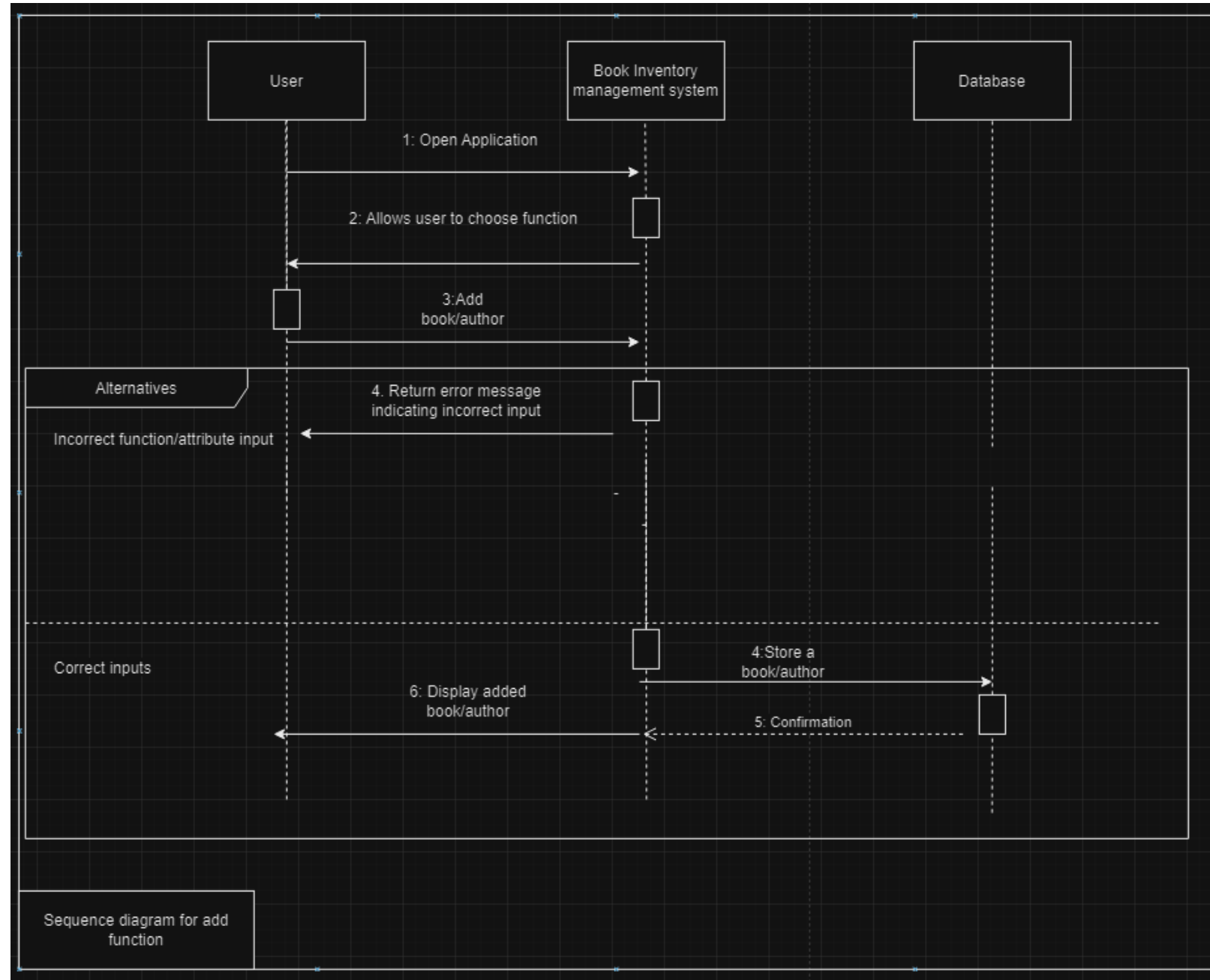
Use case diagram



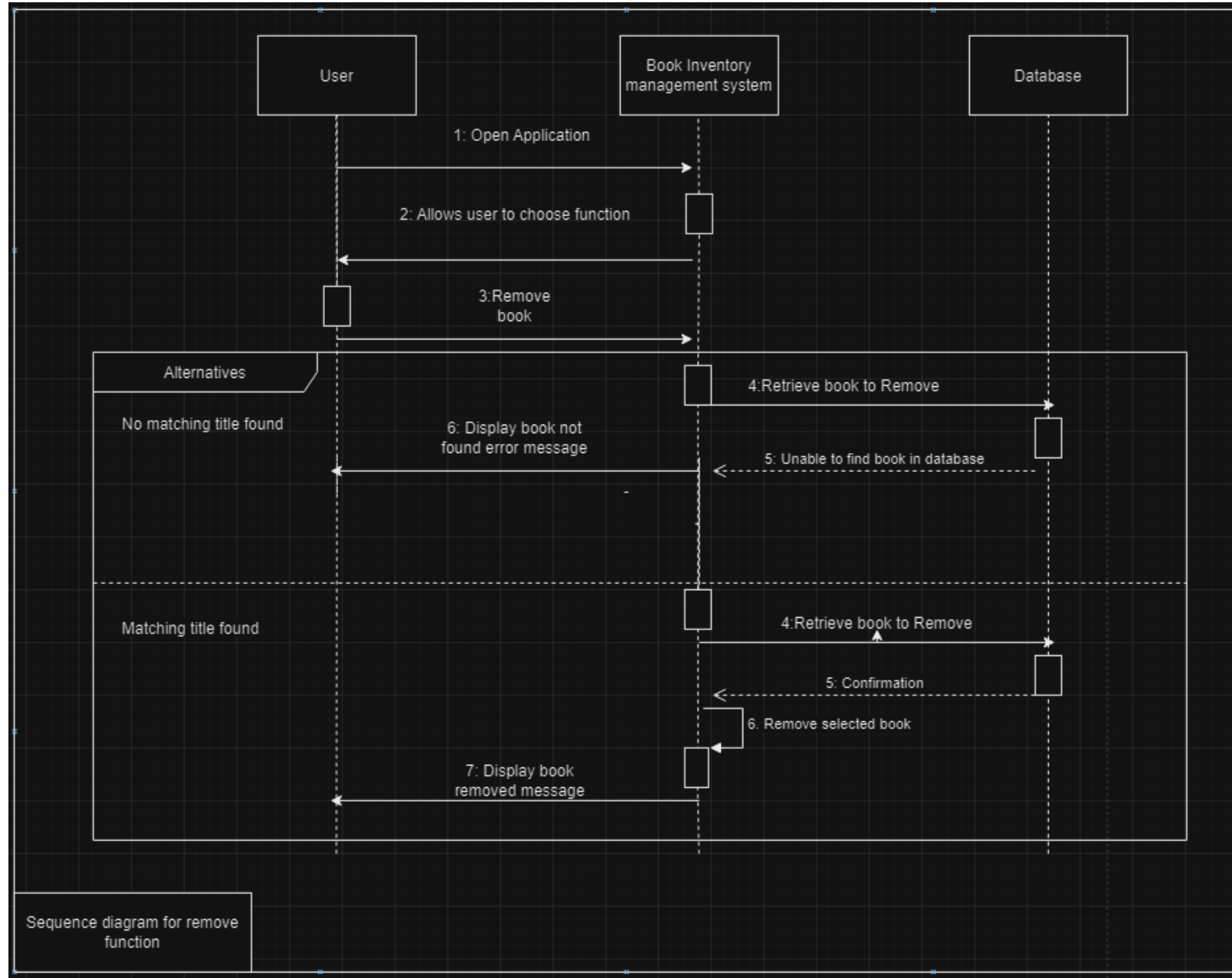
Sequence diagram: Retrieve function



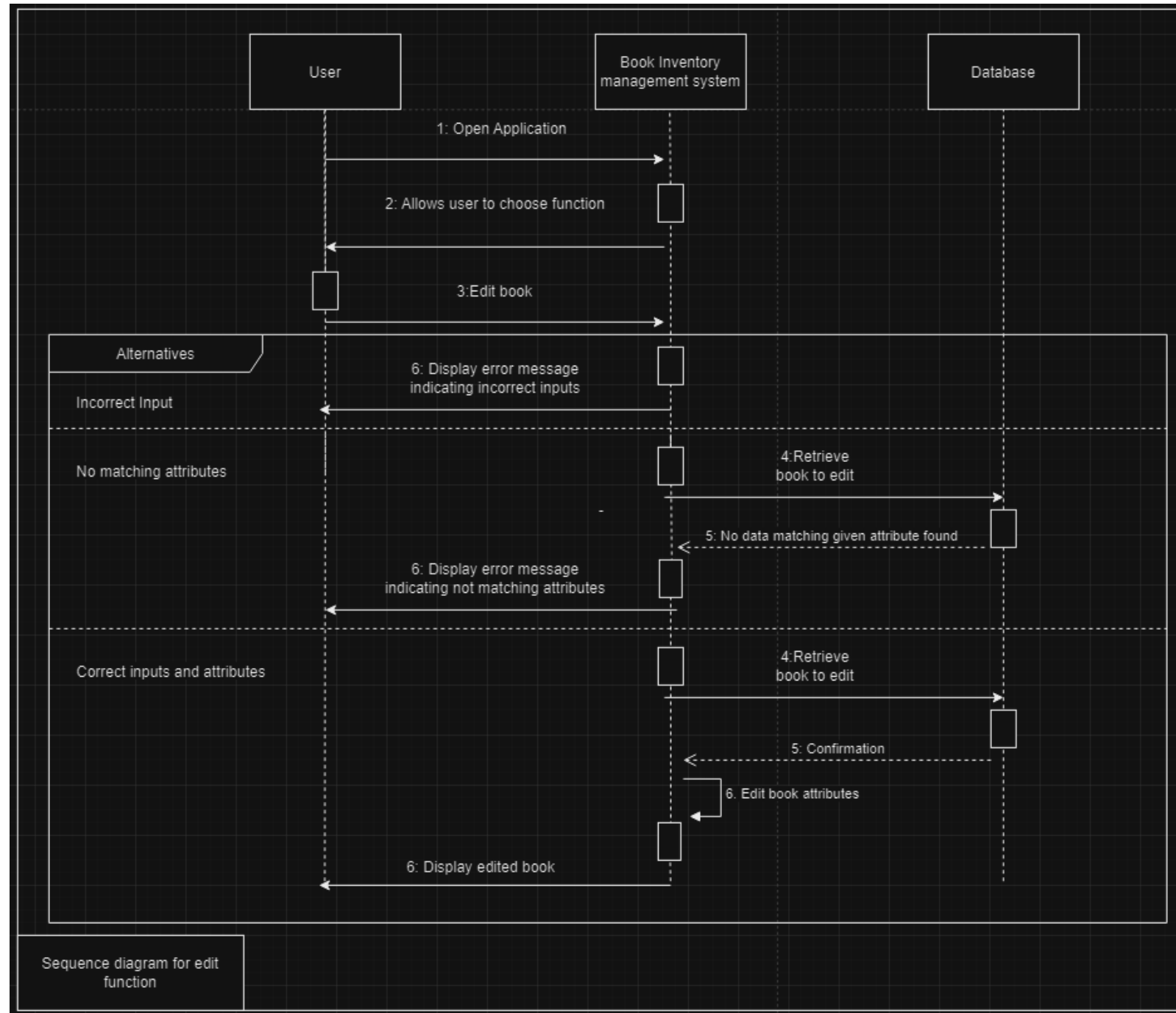
Sequence diagram: Add function



Sequence diagram: Remove function



Sequence diagram: Edit function



Functionality Enhancements

- Add Authors: Now includes error handling for missing or invalid data.
- Add Books: Updated to use author IDs and validate inputs.
- Update Books: Improved with data validation (not through admin) and checks for non-existent books.
- Delete Books: Ensures associated data is deleted safely.



Add Authors Functionality

– Example:

`/addauthors/?name=AuthorName&bio=AuthorBio`

-Possible Error:

Missing name



Add Books Functionality

-Example:

/addbooks/?title=BookTitle&authors=1,2&price=12.99&stock=10

Possible Errors:

- Invalid author IDs
- Missing title



Update Books Functionality

– Example:

/updatebook/?title=OldTitle&new_title=NewTitle&price=15.
99&stock=20

–Possible Errors:

Missing title

Book not found



Delete Books Functionality

- Example: `/deletebook/?title=BookTitle`
- Error cases:
 - Missing title
 - Book not found:



Search and Sort Functionality

- Example search author: `/search/?author=Author`
- Example search author: `/search/?title=BookTitle`
- Error cases: Missing search parameter



Future Enhancements

- Week 4 and today's feedbacks:
Maybe integrating React for a frontend interface.

