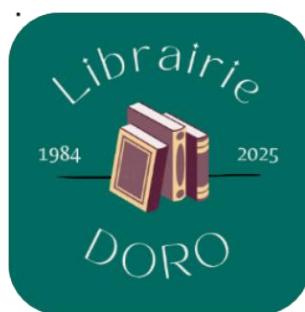


LIBRAIRIE DORO

BookShop — MySQL Project

Renaud Yoganathan, Max Dambron, Souhaib Sghaier



Object-Oriented Analysis & Design + Advanced Web Programming



Our Goal

Build a simple, normalized MySQL-backed website for discovering books, browsing by genre, and posting user reviews. This version adds a more detailed database structure and an entity-relationship model to illustrate our design choices

ER Diagram

The ER diagram shows how the main entities are connected:

- Book is the central entity.
- Each Book is written by one Author, published by one Publisher, and written in one Language.
- A Book can belong to several Genres through the link table Book_Genre.
- Users can post Reviews about different books.
- Relationships are mainly one-to-many, except Book ↔ Genre, which is many-to-many.

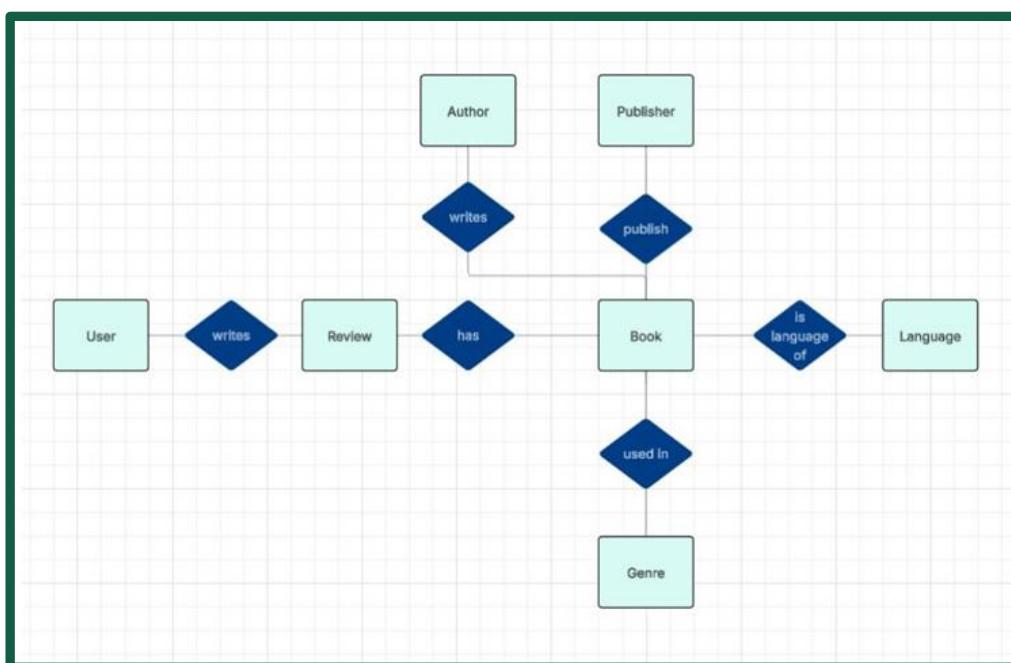


Table Structure Description

The diagram represents the logical structure of the database used for the book application. The goal was to design a simple, normalized model where each entity has a clear and unique purpose.

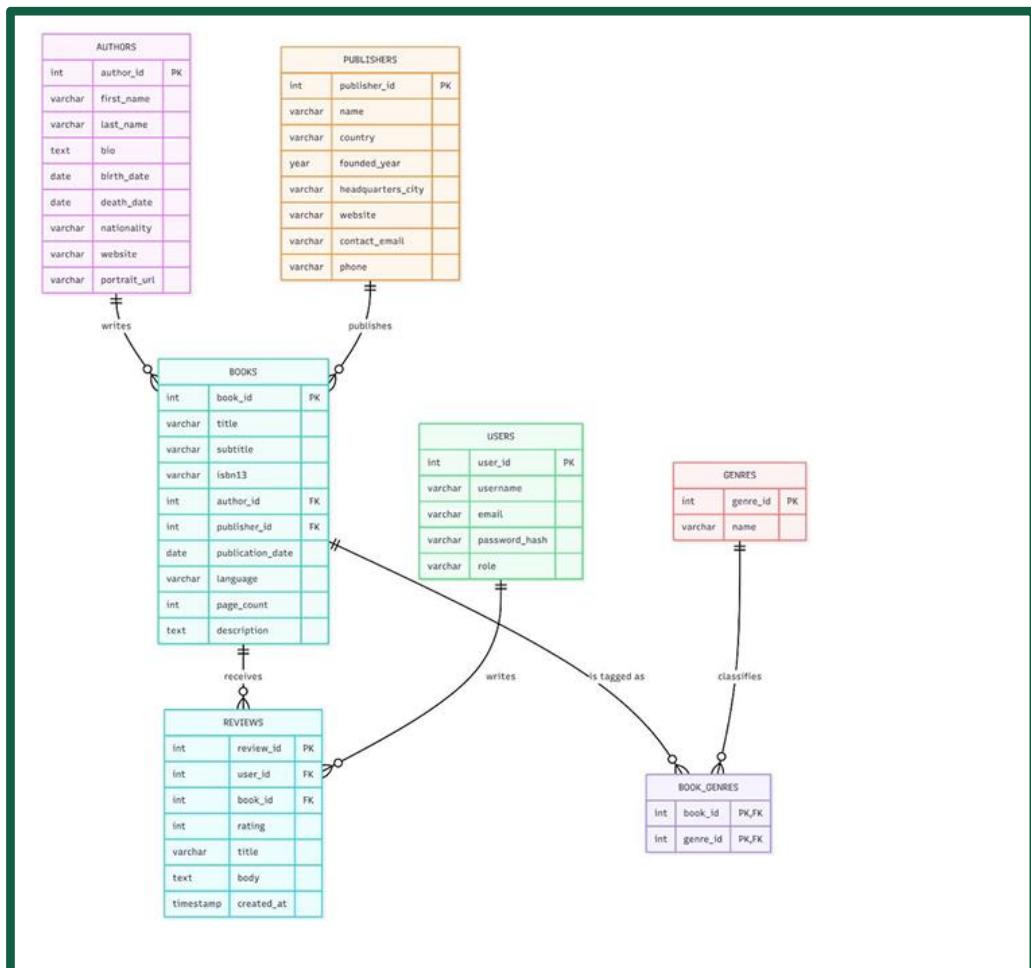
The **Books** table is the central element of the model. Each book is written by one **Author** and published by one **Publisher**, which explains the *one-to-many* relationships between these tables — one author or publisher can be linked to several books.

The **language** field was integrated directly inside the Books table to simplify the design and avoid an unnecessary extra table.

Users are represented in the Users table and can write multiple **Reviews**; each review being related to a single book.

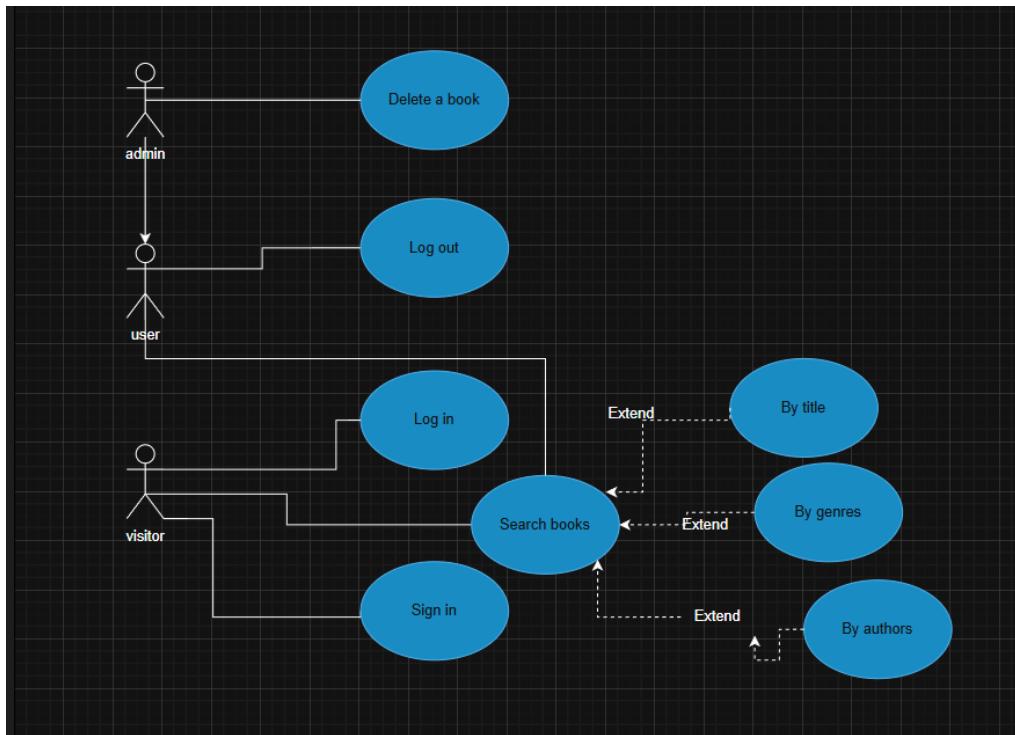
This creates a one-to-many relation between *Users* → *Reviews* and *Books* → *Reviews*.

Books can also belong to several **Genres**, and each genre can contain multiple books. This *many-to-many* relation is managed by the associative table **Book_Genres**, ensuring flexibility when classifying books.

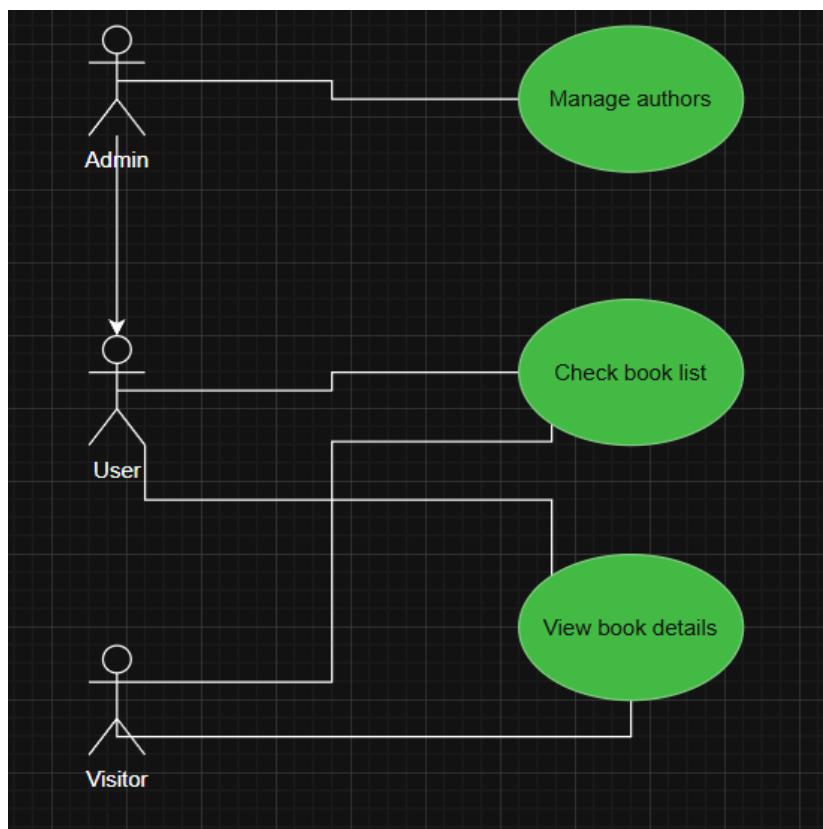


User diagram

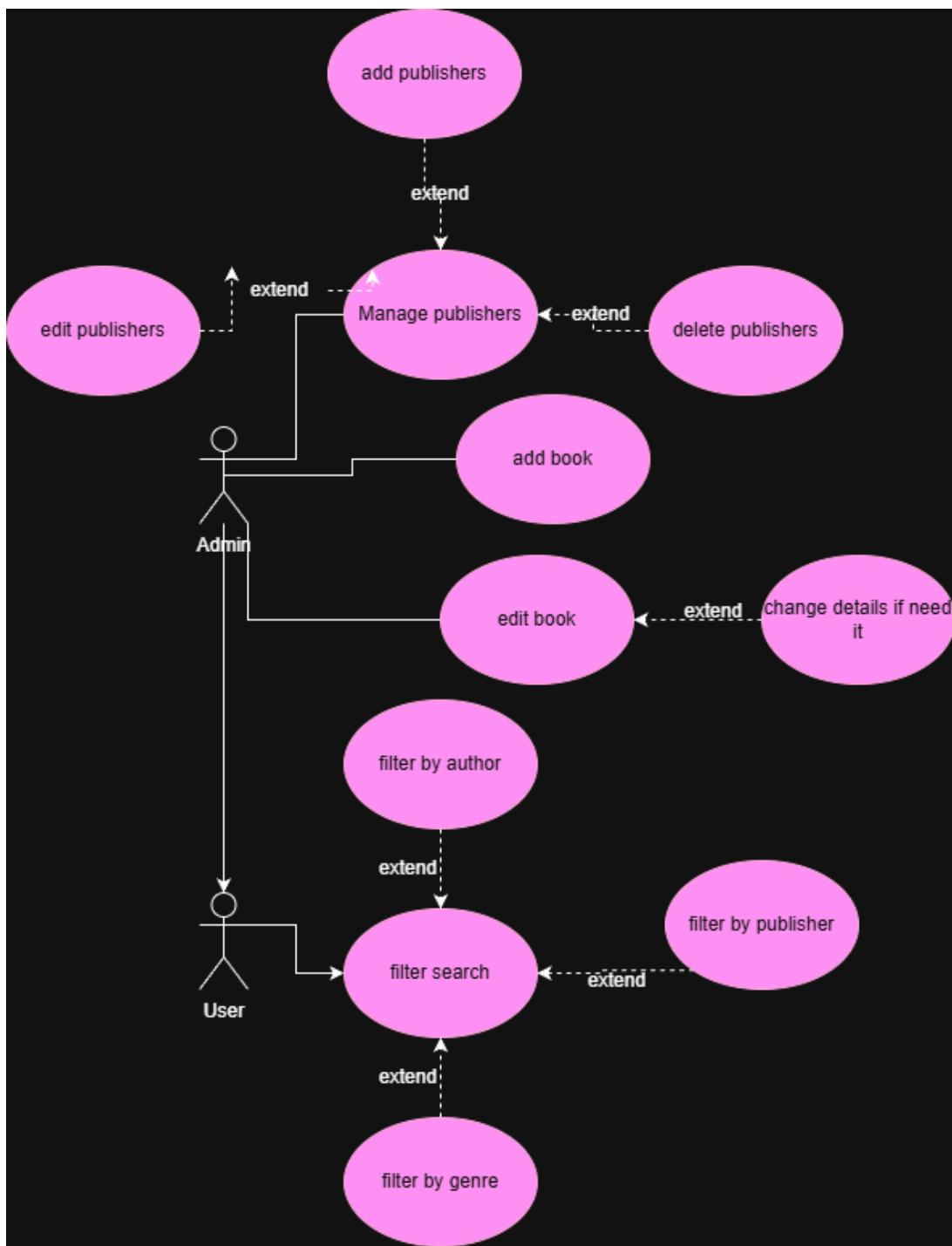
Renaud :



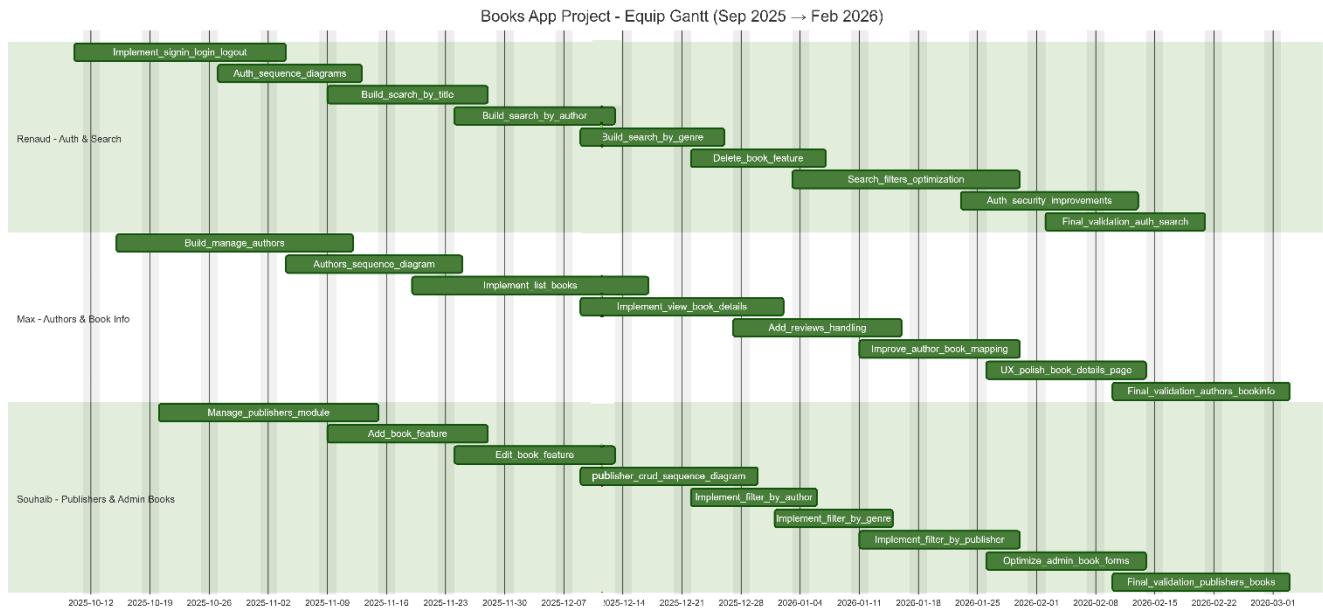
Max :



Souhaib :



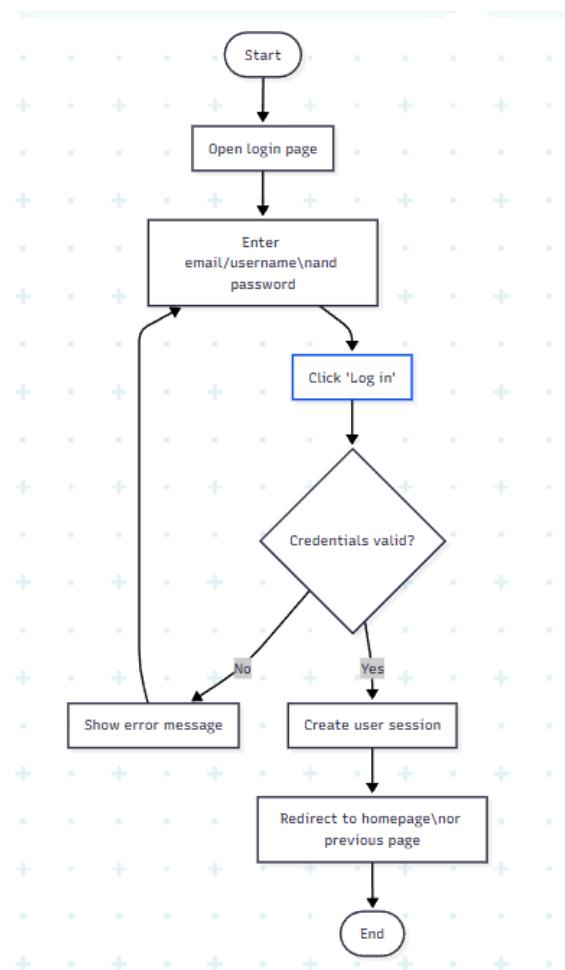
Equip Gant Diagram



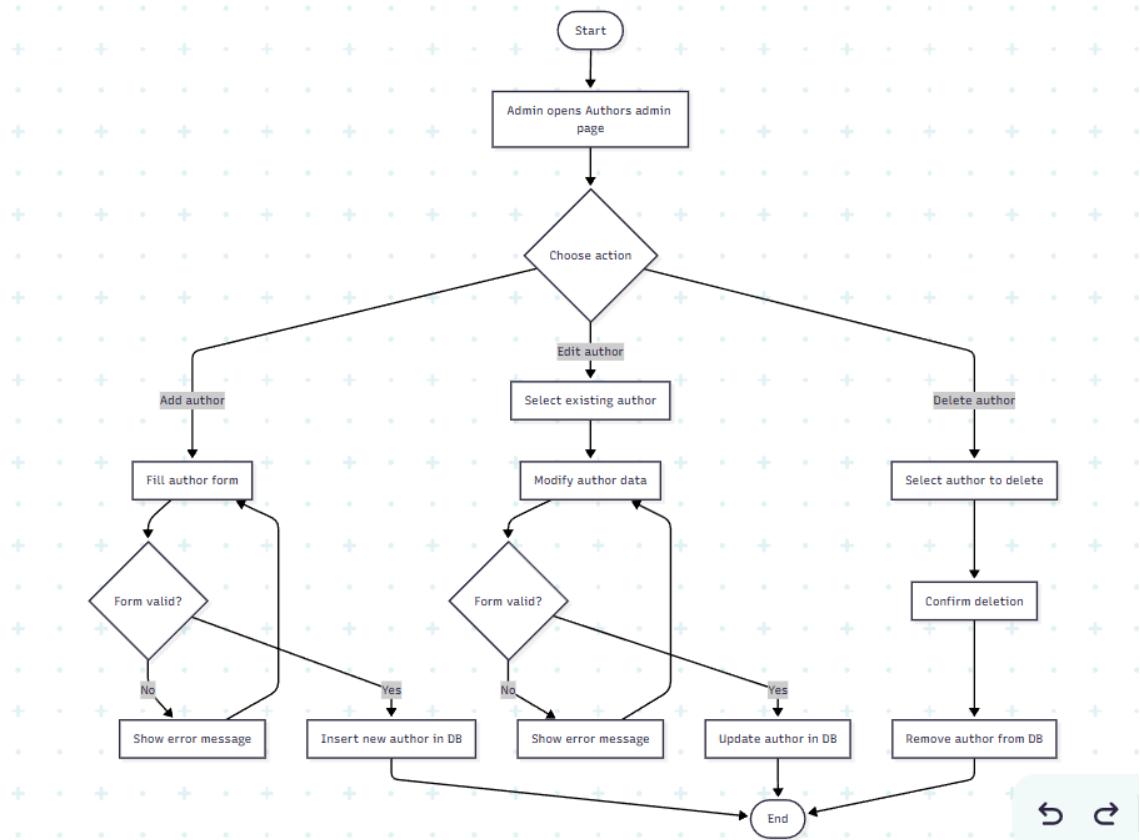


Activity diagram

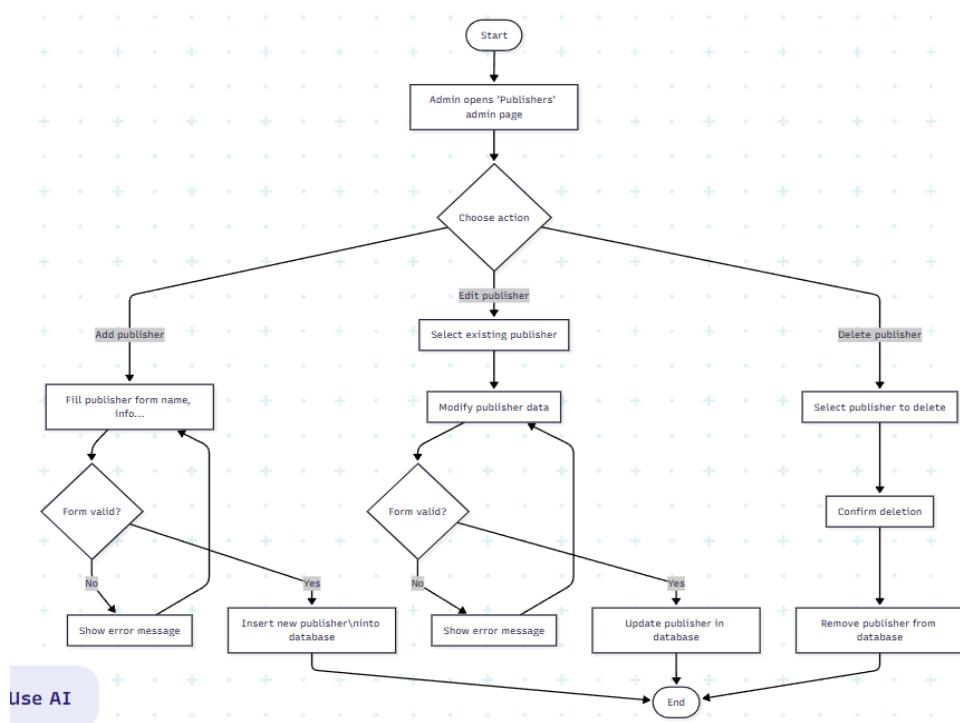
Renaud : sign in, log in, search book global



Max : manage authors, check book list, view book details



Souhaib : add books, edit books, manage publishers



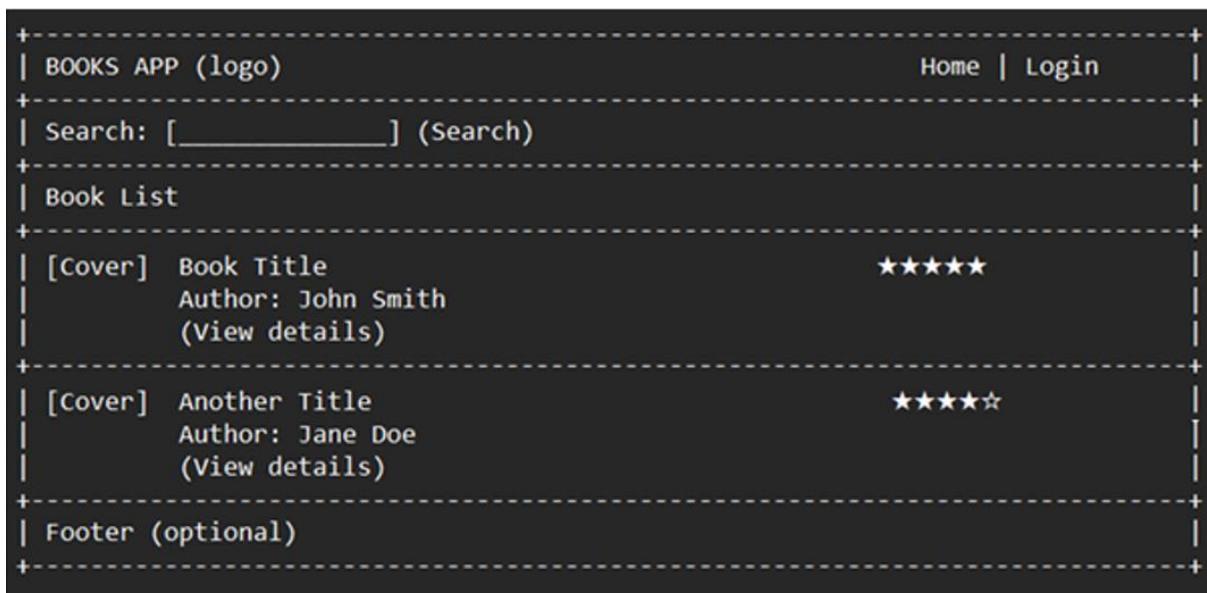
Wireframes

There is one wireframe per person.

Renaud



Max



Souhaib

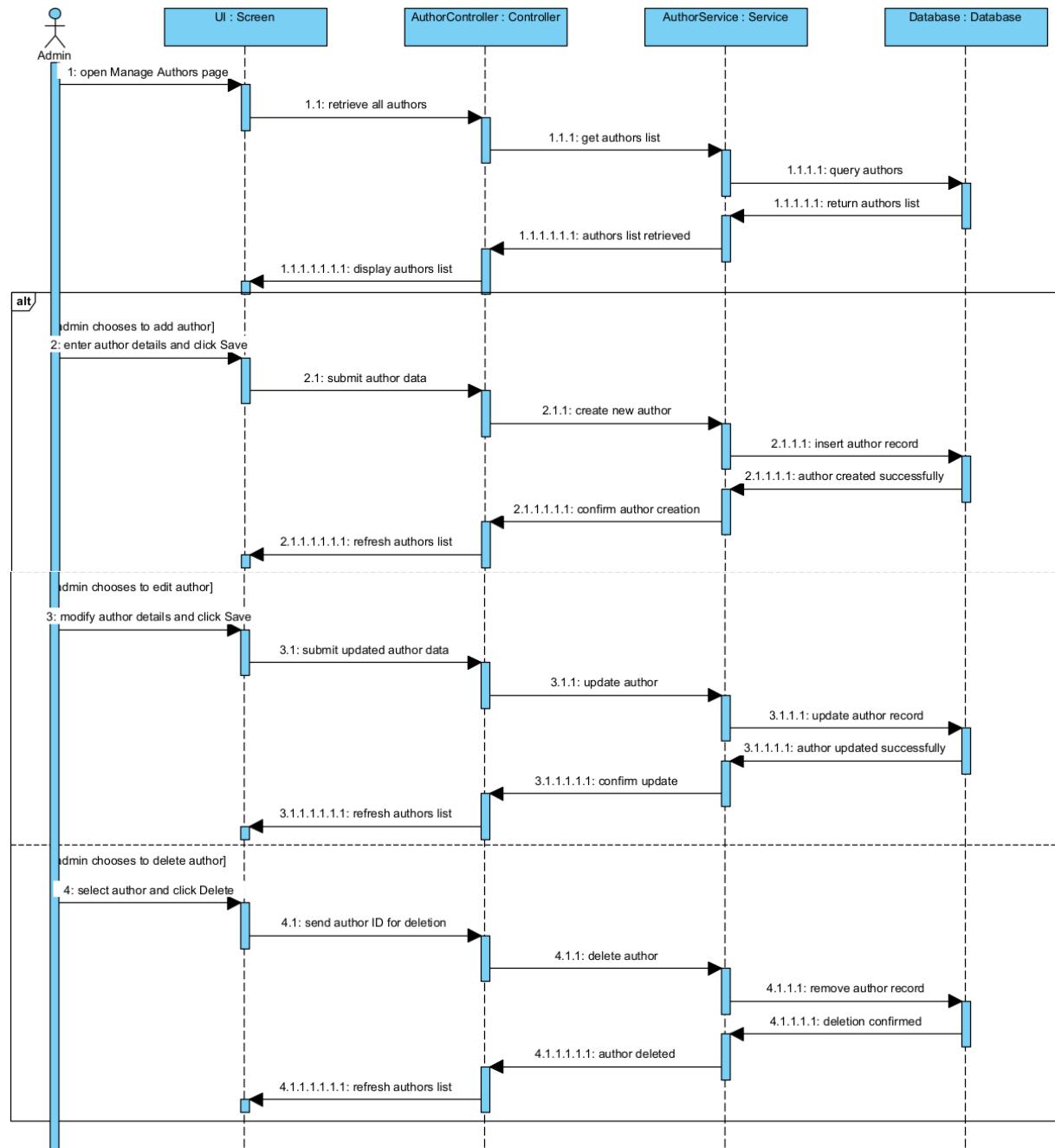
BOOKS APP (logo)	Admin Panel Logout
ADD A NEW BOOK	
Title:	[_____]
Author:	[Dropdown ▼]
Publisher:	[Dropdown ▼]
Language:	[Dropdown ▼]
Genres:	[] Fantasy [] Drama
	[] Action [] Sci-Fi
Description:	
[_____]	
[_____]	
(Save)	(Cancel)
Footer	



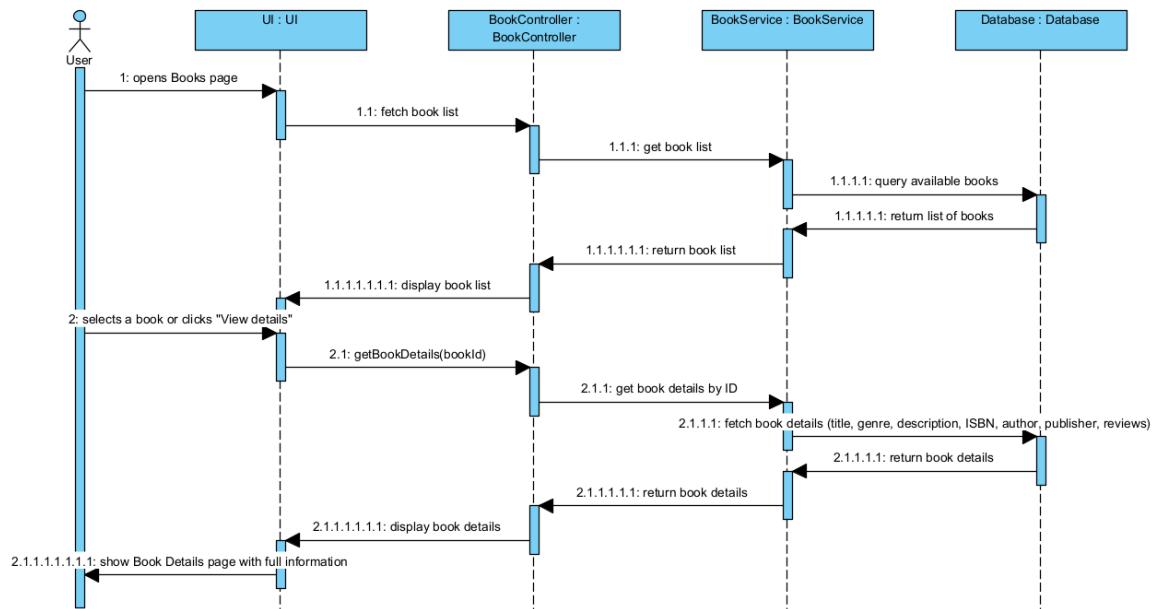
Sequence diagram

There is one sequence diagram per person.

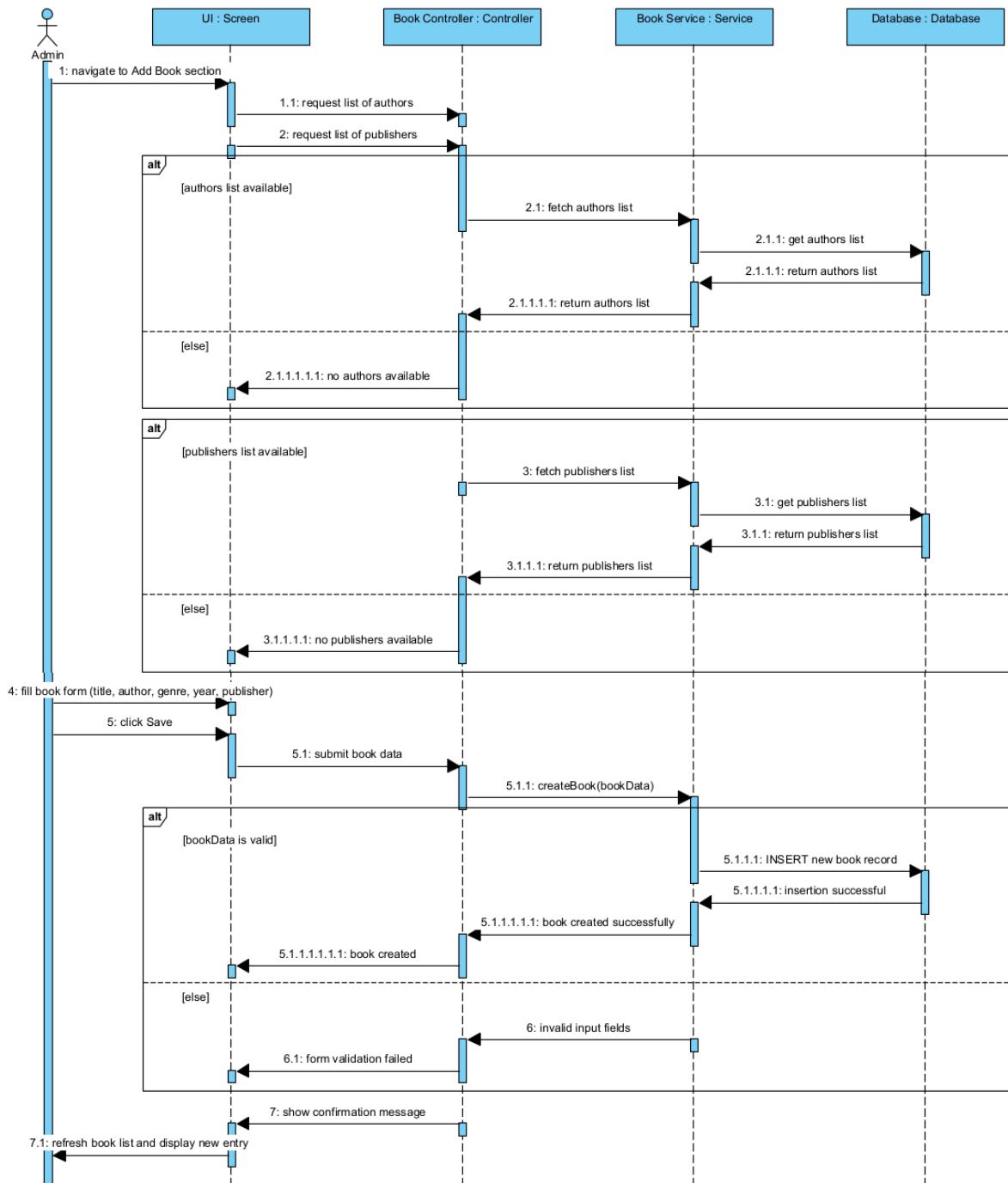
Renaud : manage authors



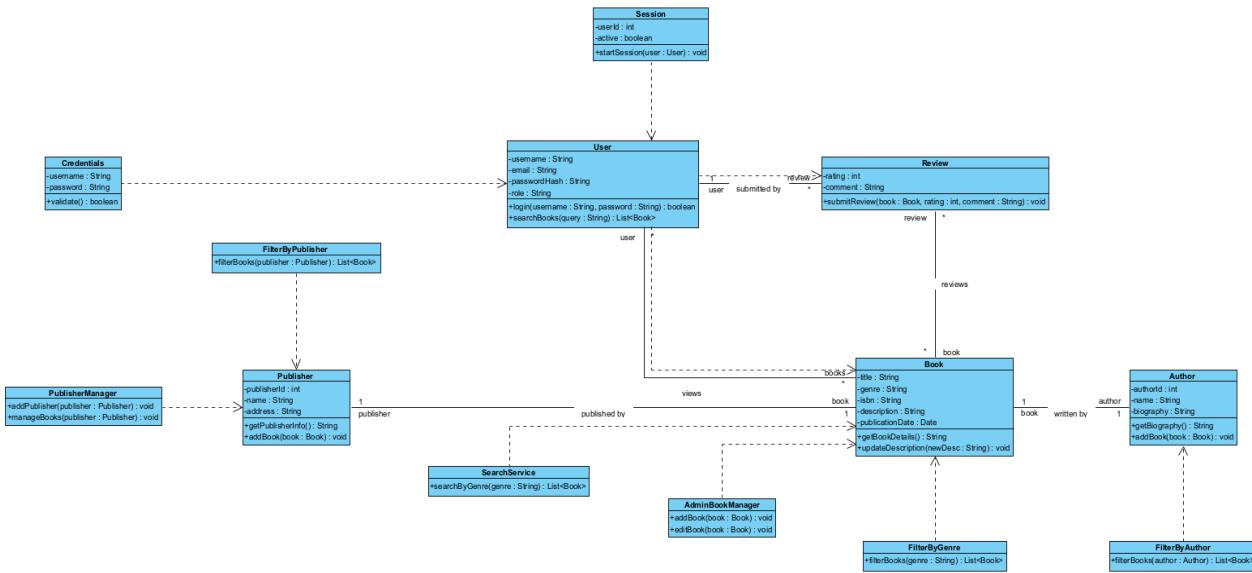
Max : view books details



Souhaib : add book

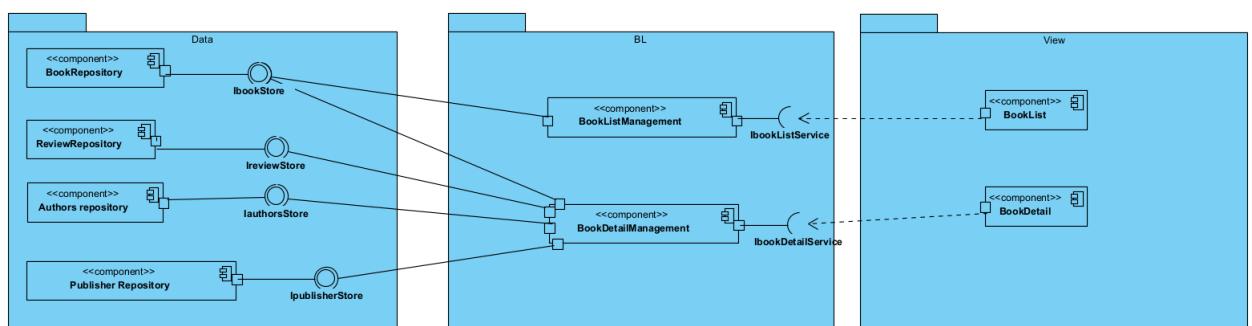


Class diagram

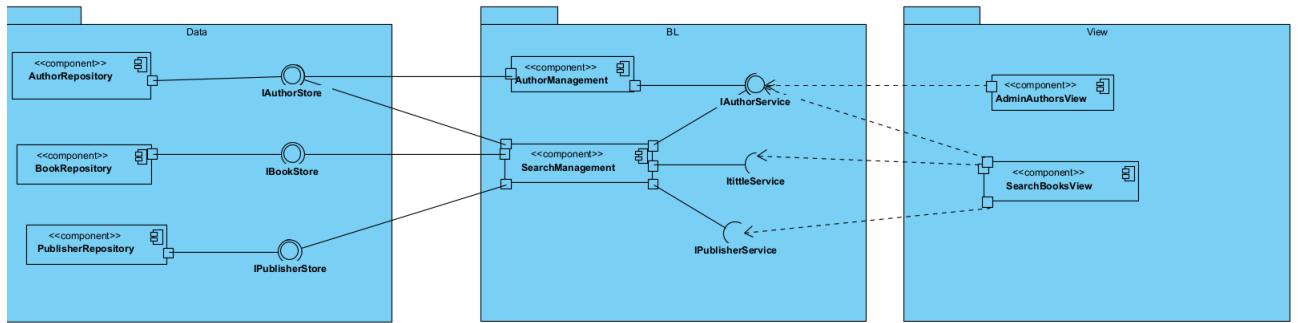


Component diagram

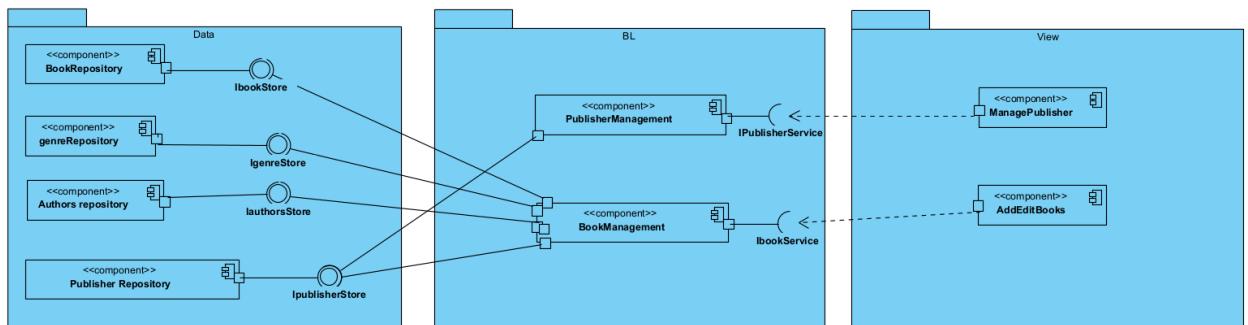
Max:



Renaud:



Souhaib:



Gant Diagram

