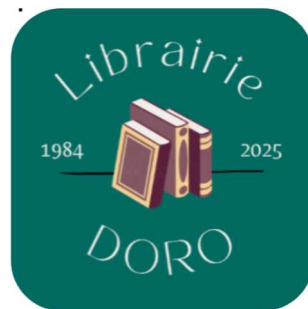


# LIBRAIRIE DORO

## BookShop — MySQL Project

Renaud Yoganathan, Max Dambron, Souhaib Sghaier



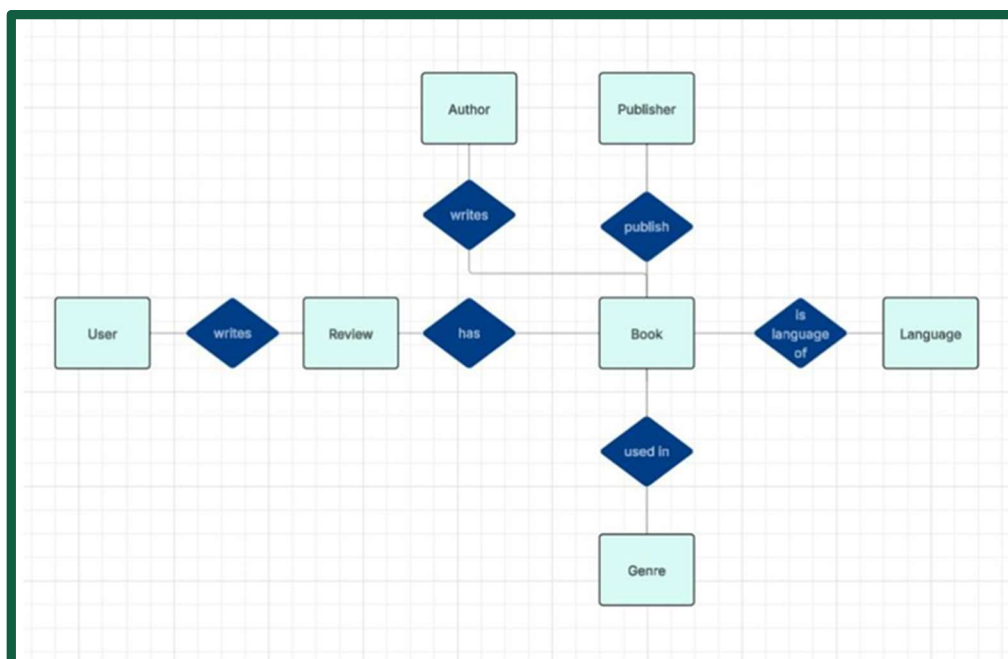
## Our Goal

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.

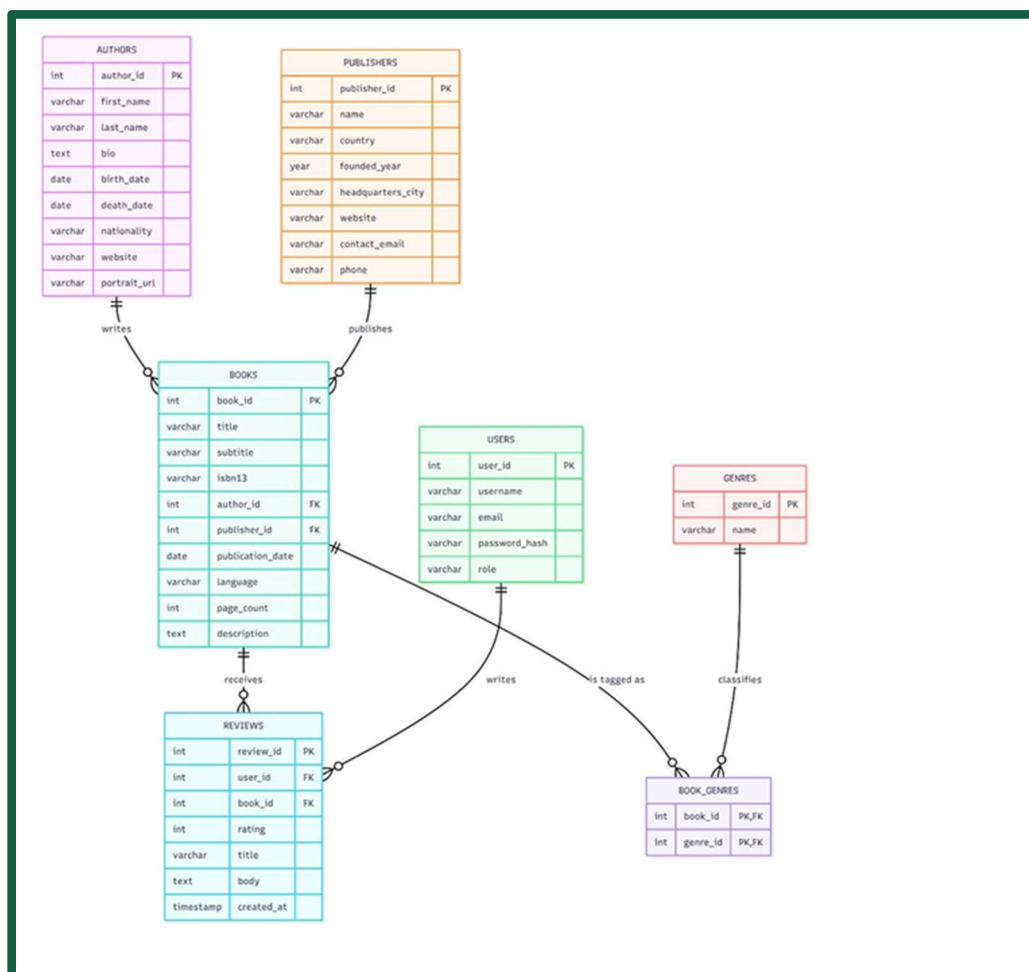
The **Books** table is the central element of the model. Each book is written by one **Author** and published by one **Publisher**, which explains the *one-to-many* relationships between these tables — one author or publisher can be linked to several books.

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.

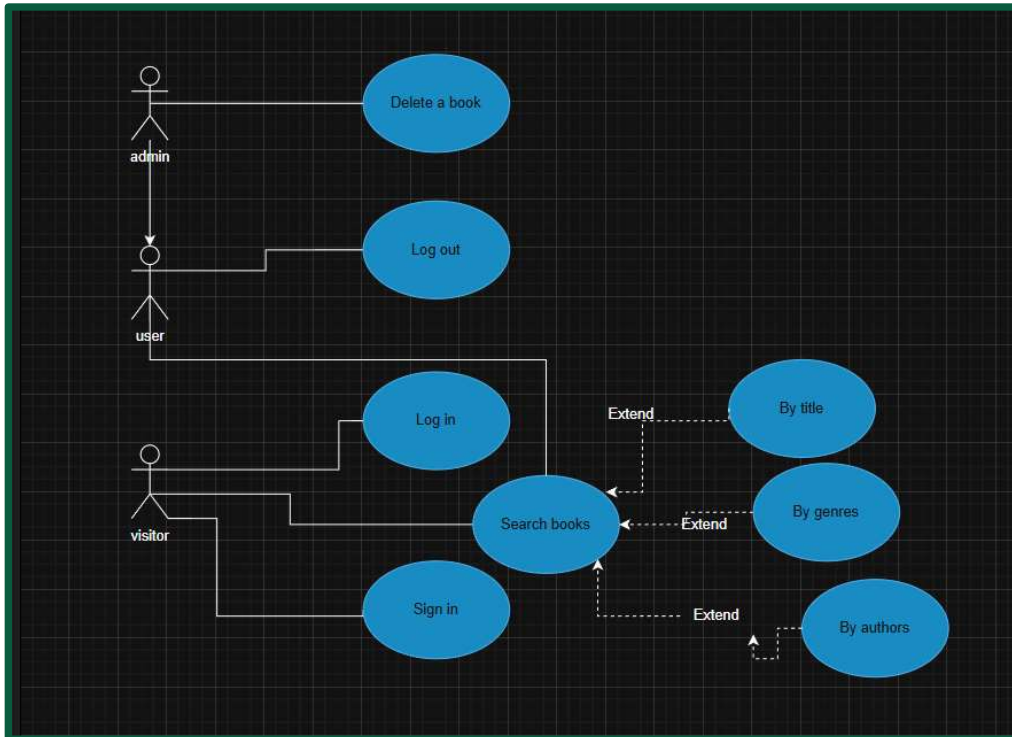
This creates a one-to-many relation between *Users* → *Reviews* and *Books* → *Reviews*.

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.

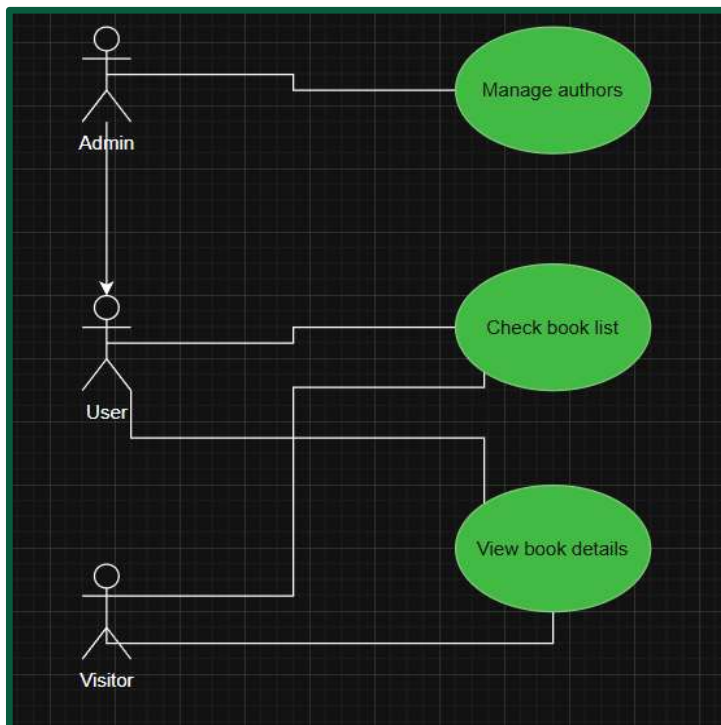


# User diagram

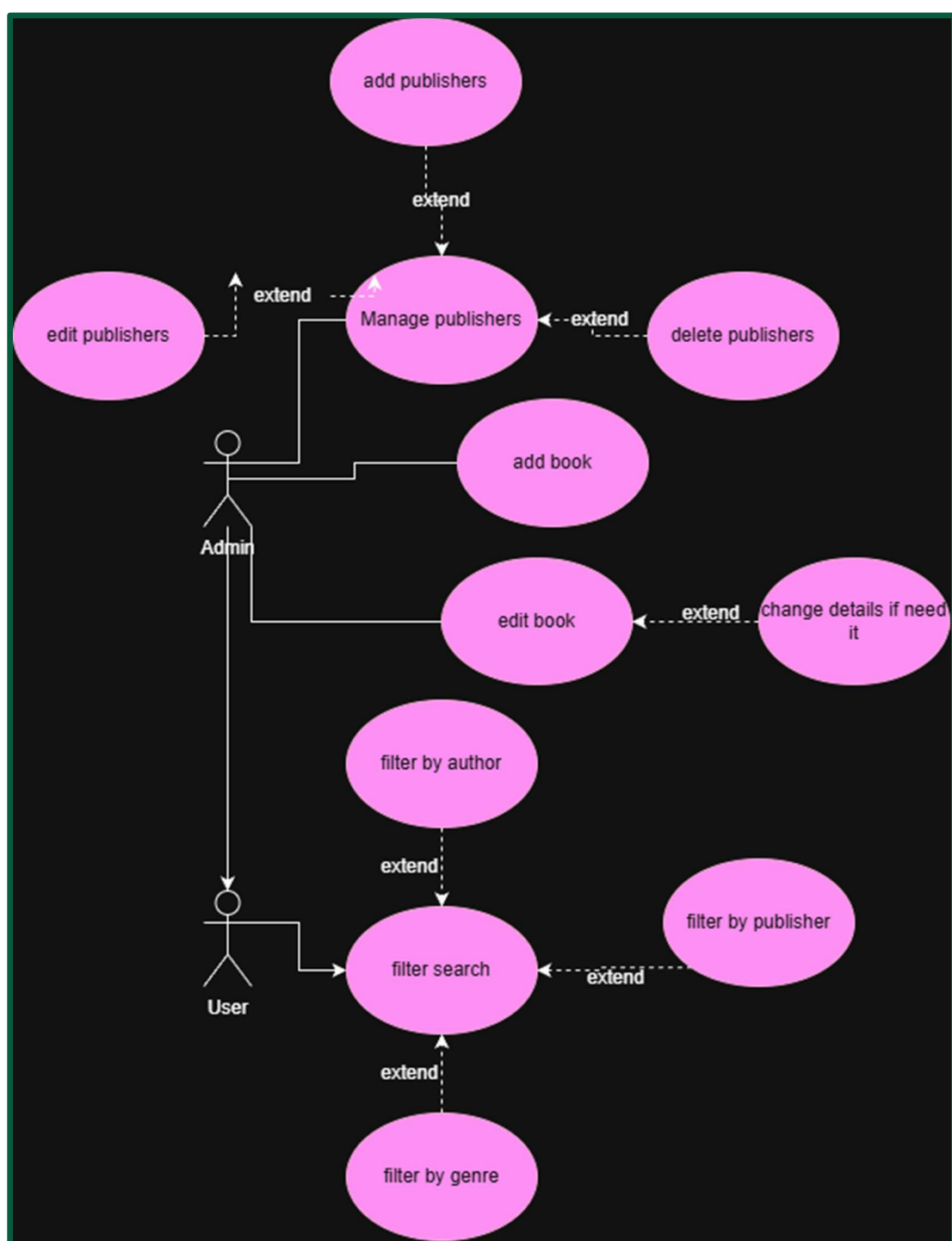
**Renaud :**



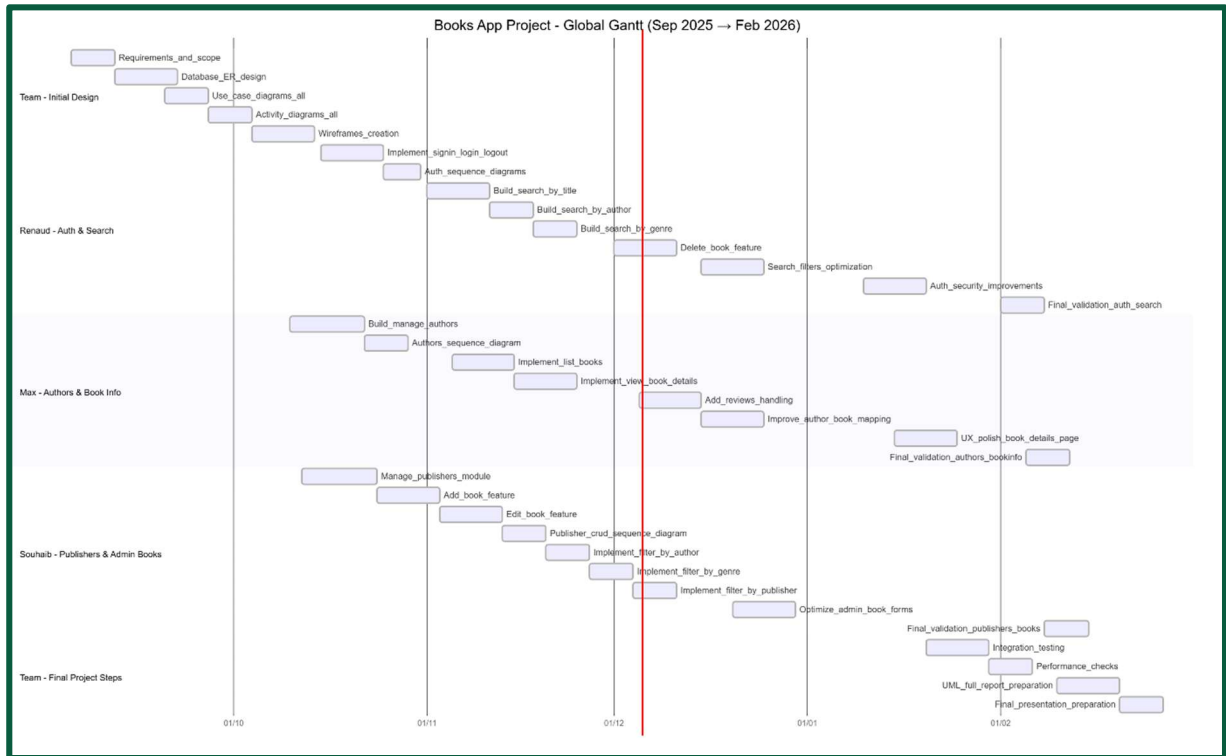
**Max :**



**Souhaib :**

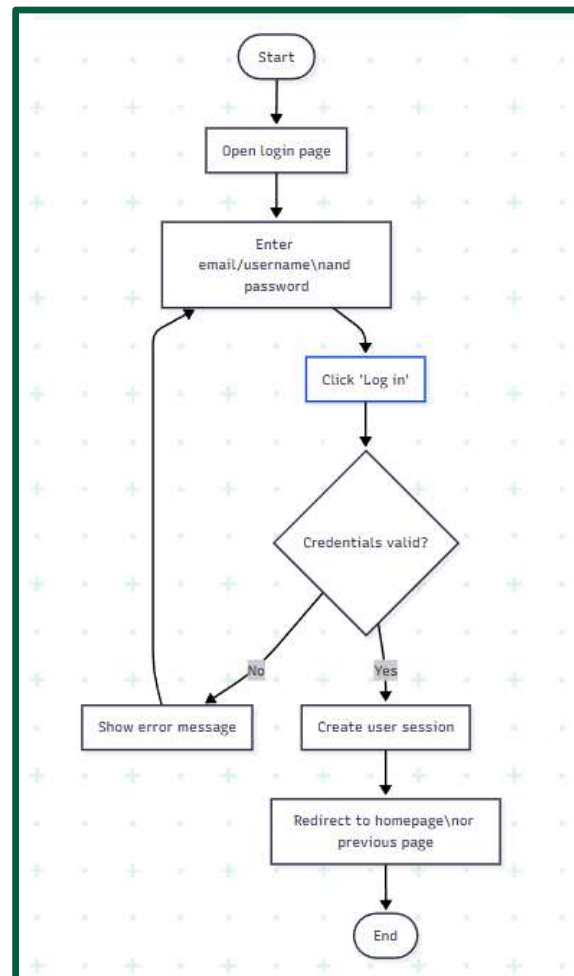


# Gant diagram

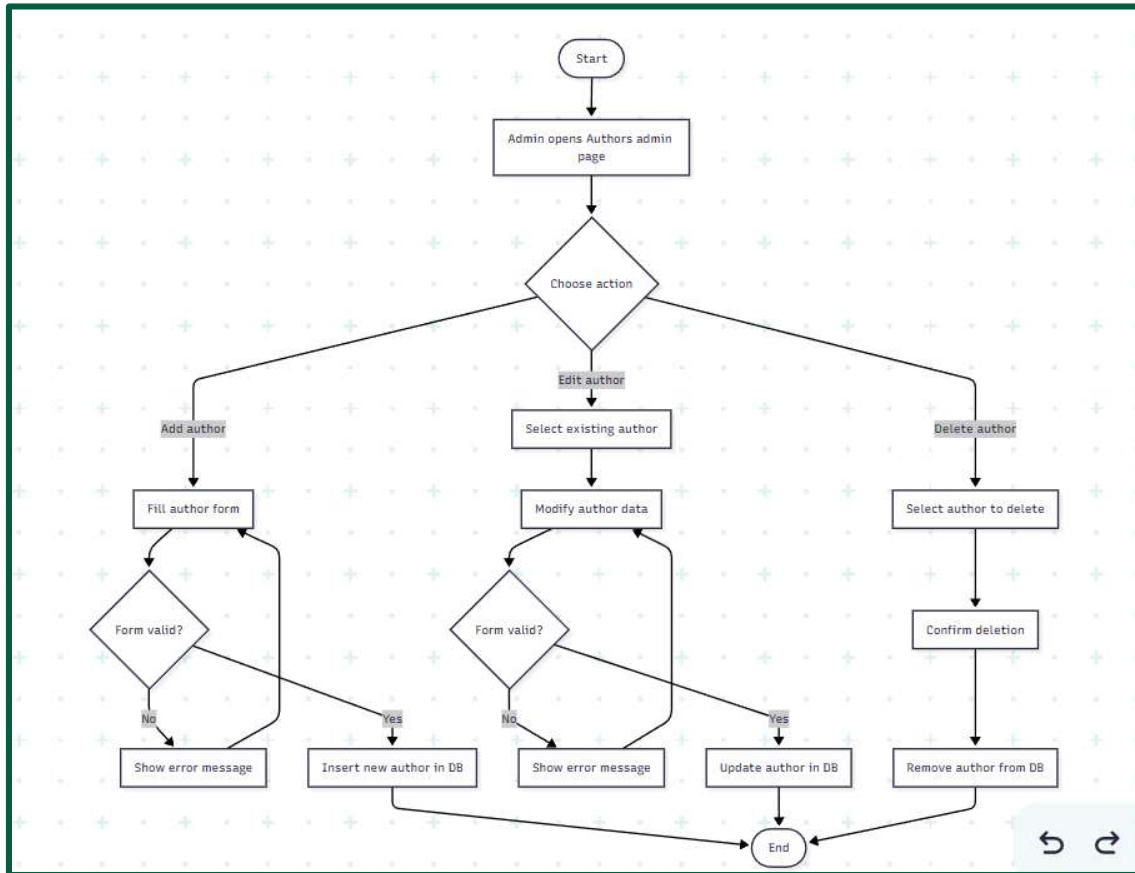


## Activity diagram

Renaud : sign in, log in, search book global

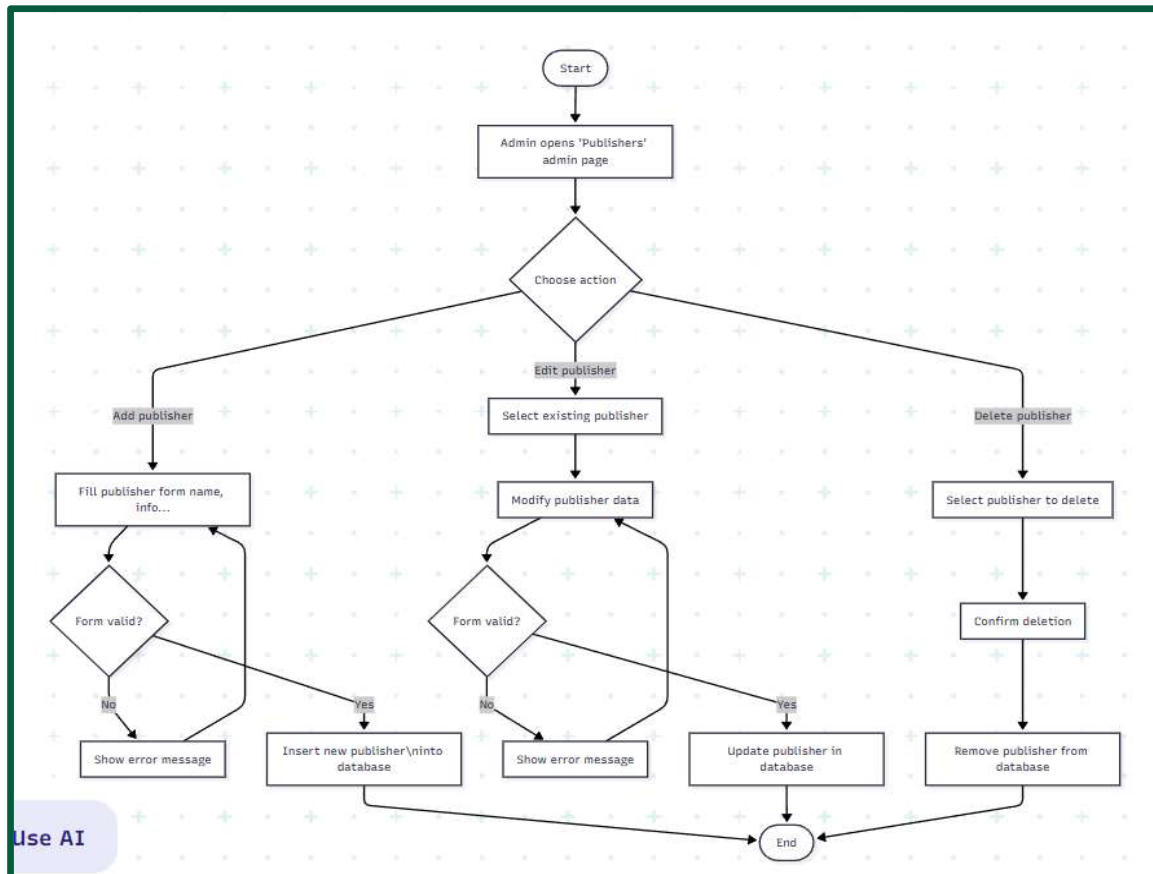


## Max : manage authors, check book list, view book details





## Souhaib : add books, edit books, manage publishers



## Wireframes

There is one wireframe per person.

### Renaud

```
| BOOKS APP (logo) | Dashboard | Logout |
|
| ADMIN - MANAGE AUTHORS
|
| [Add New Author] (button)
|
| Existing Authors
| |
| | John Smith | Edit | Delete |
| |
| | Jane Doe | Edit | Delete |
| |
|
| Add / Edit Author (modal or section)
| Name: [ ]
| Bio: [ ]
| (Save) (Cancel)
|
| Footer
|
```

### Max

```
+-----+
| BOOKS APP (logo) Home | Login |
+-----+
| Search: [ ] (Search)
+-----+
| Book List
+-----+
| [Cover] Book Title ★★★★★
| Author: John Smith
| (View details)
+-----+
| [Cover] Another Title ★★★★★☆
| Author: Jane Doe
| (View details)
+-----+
| Footer (optional)
+-----+
```

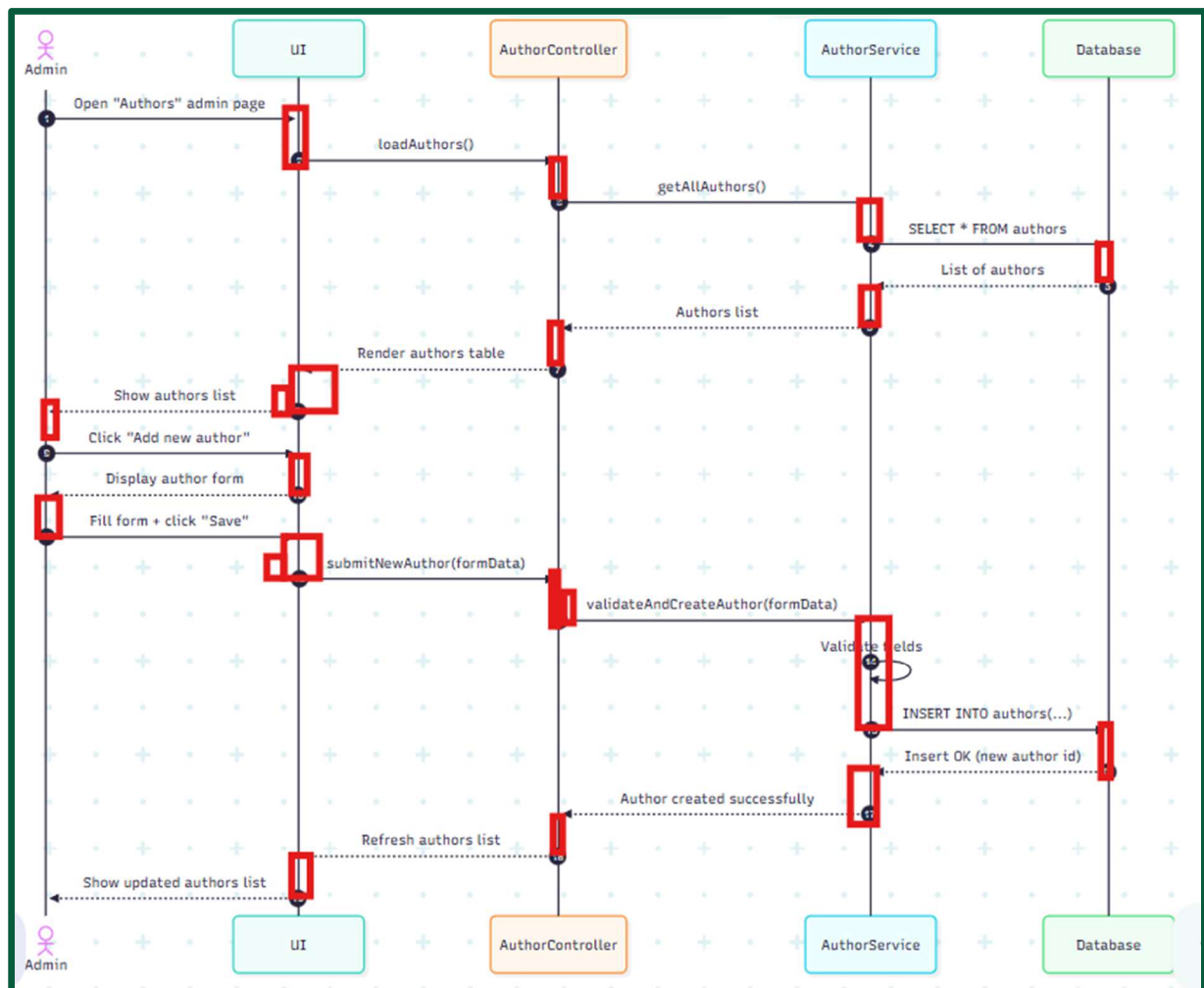
## Souhaib

BOOKS APP (logo)		Admin Panel   Logout	
ADD A NEW BOOK			
Title:	<input type="text"/>		
Author:	[Dropdown ▼]		
Publisher:	[Dropdown ▼]		
Language:	[Dropdown ▼]		
Genres:	<input type="checkbox"/> Fantasy	<input type="checkbox"/> Drama	
	<input type="checkbox"/> Action	<input type="checkbox"/> Sci-Fi	
Description:	<input type="text"/>		
	<input type="text"/>		
( Save )		( Cancel )	
Footer			

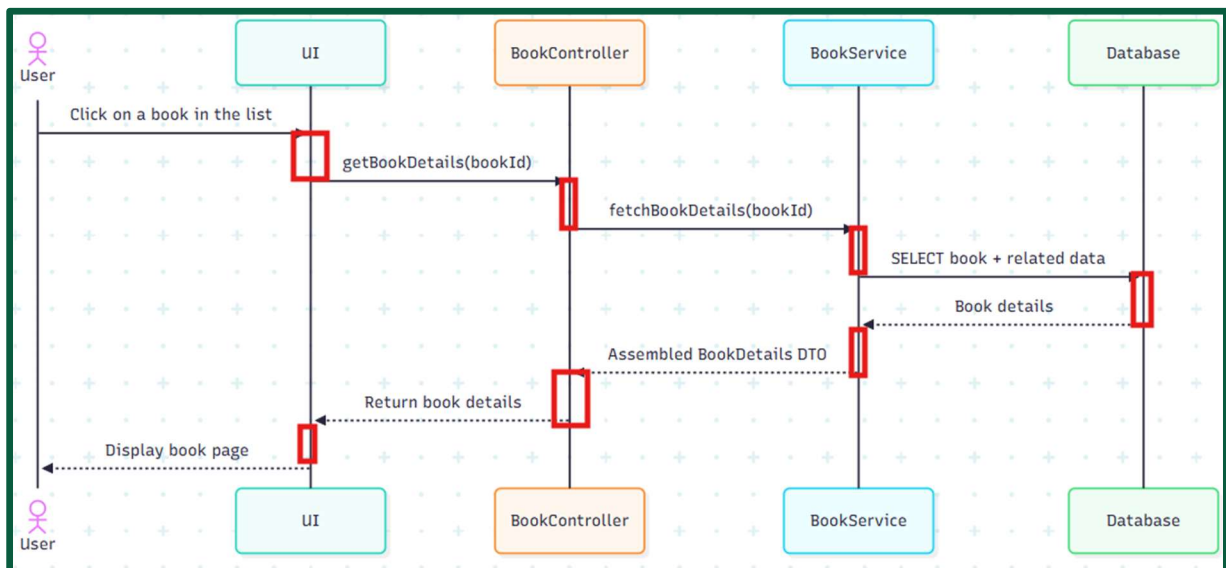
## Sequence diagram

There is one sequence diagram per person.

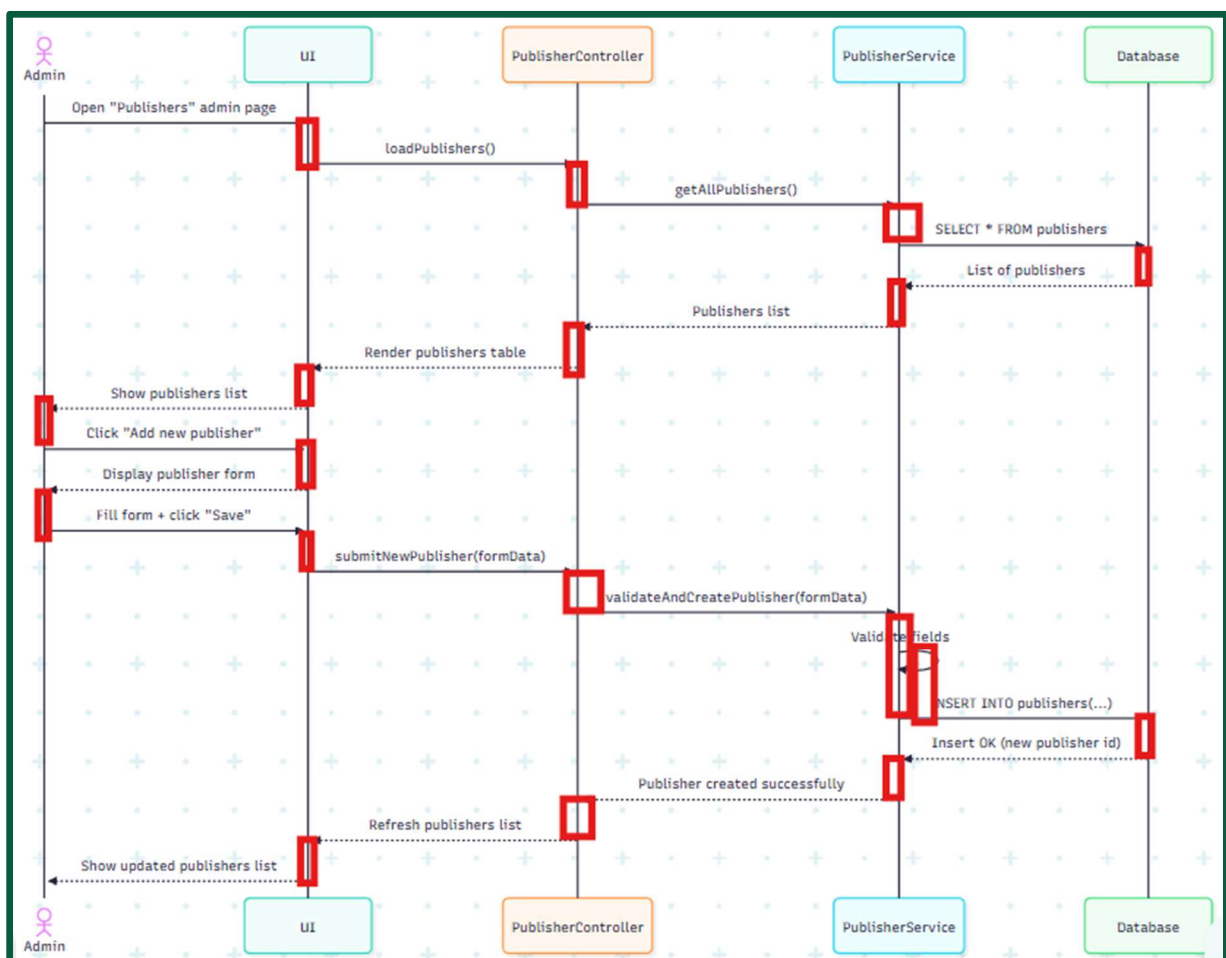
### Renaud : manage authors



## Max : view books details

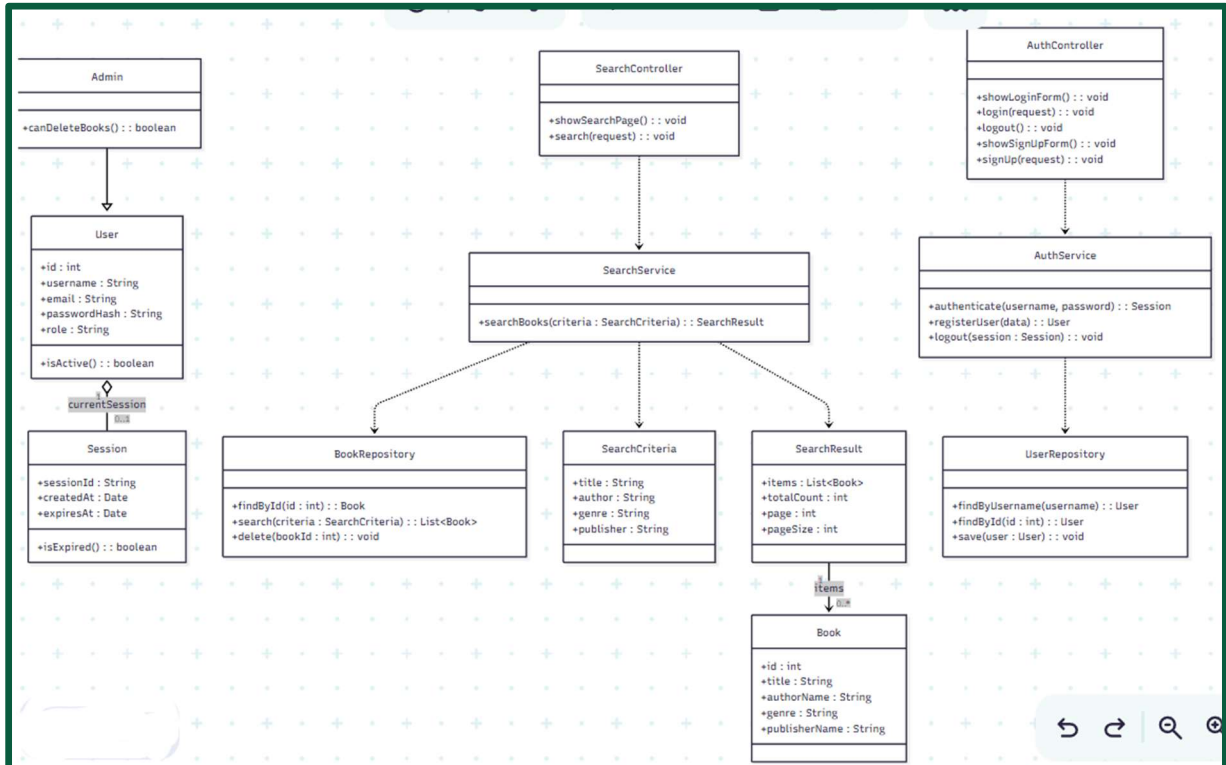


## Souhaib : add book

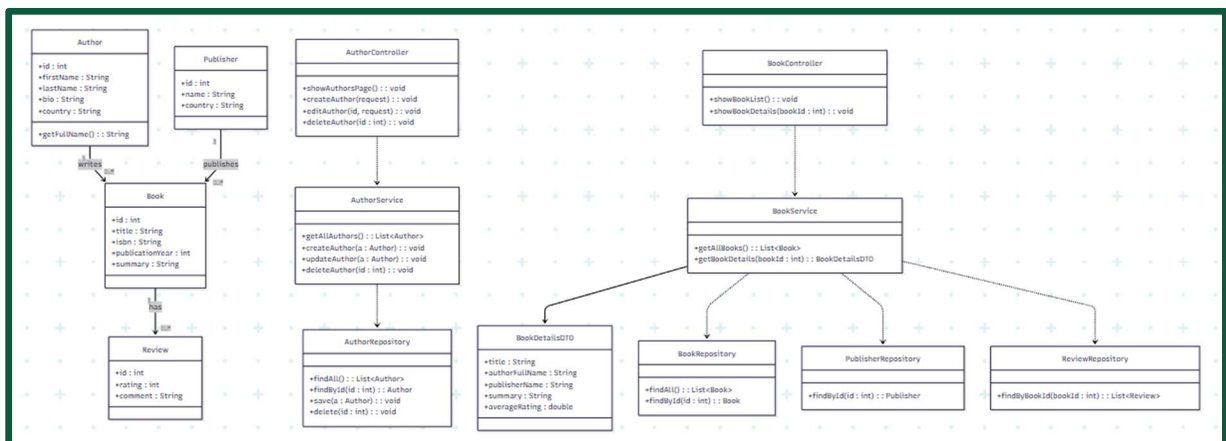


## Class diagram

Renaud :

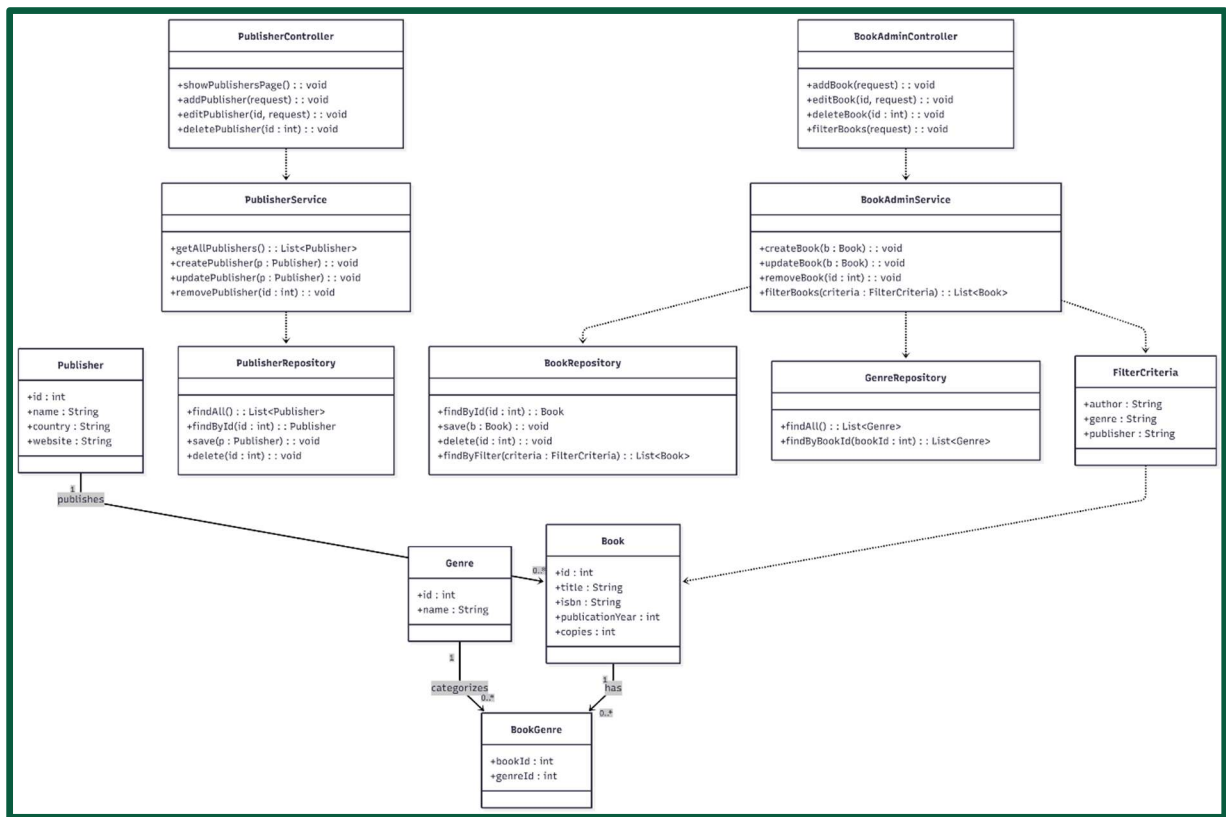


Max :





Souhaib :



## Component diagram

