Une image contenant noir, obscurité

Description générée automatiquementBooknBorrow

Book-borrowing Management

Table of Contents

[Project presentation 3](#_Toc182234862)

[BooknBorrow book-borrowing Management 3](#_Toc182234863)

[Members 3](#_Toc182234864)

[Database diagrams 4](#_Toc182234865)

[Entity-relationship diagram 4](#_Toc182234866)

[Table structure diagram 4](#_Toc182234867)

[Planned gantt diagram 5](#_Toc182234868)

[Use case diagrams 6](#_Toc182234869)

[Borrowing Process Use Case Diagram 6](#_Toc182234870)

[Library and Book Management Use Case Diagram 7](#_Toc182234871)

[User Management Use Case Diagram: 8](#_Toc182234872)

[Activity diagram 9](#_Toc182234873)

[Borrowing Process 9](#_Toc182234874)

[User Management 10](#_Toc182234875)

[Sequence diagrams 11](#_Toc182234876)

[Book Filering 11](#_Toc182234877)

[Login 12](#_Toc182234878)

[Wireframe 13](#_Toc182234879)

[Book list page 13](#_Toc182234880)

# Project presentation

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Description générée automatiquement

## BooknBorrow book-borrowing Management

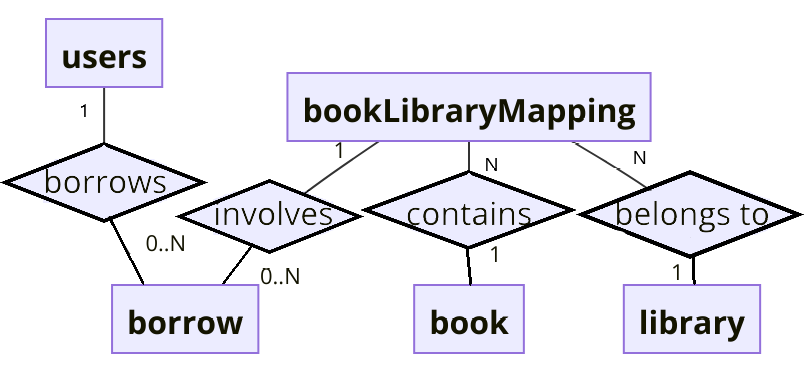
Website for book-borrowing. BooknBorrow is a platform for users to borrow books from multiple libraries and keep records of their readings and eventual fines if they bring back books too late.

## Members

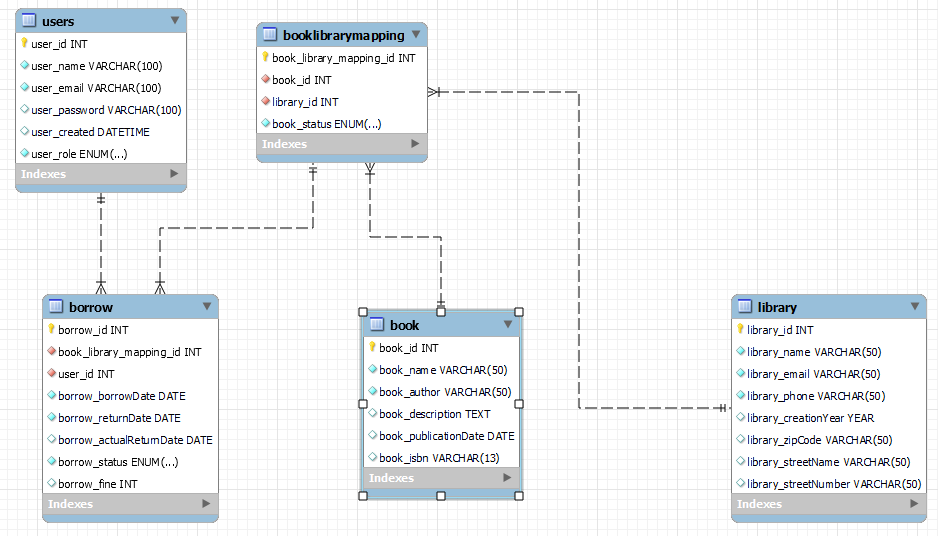
* LAURENT Sacha
* SIMON Eliot

# Database diagrams

## Entity-relationship diagram



## Table structure diagram



# Planned gantt diagram

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Description générée automatiquement

Legend:

|  |  |
| --- | --- |
|  | Clientside |
|  | Styling |
|  | Serverside |
|  | Safety |

# Use case diagrams

## Borrowing Process Use Case Diagram

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Description générée automatiquement

* **Actors**: User, Admin
* **Use Cases**: Borrow Book, Reserve Book, Return Book, Check Book Availability, Extend Borrowing Period, Pay Fine (User), Manage Borrow Records (Admin).

## Library and Book Management Use Case Diagram

Une image contenant texte, diagramme, capture d’écran, Police

Description générée automatiquement

* **Actors**: Admin, User
* **Use Cases**: Add New Library (Admin), View Library Details, Add New Book (Admin), View Book Details, View books read in the past, Update Book Information (Admin), Update Library Information (Admin), Search for Books, Search for Libraries, View Borrowing Statistics (Admin).

## User Management Use Case Diagram:

Une image contenant texte, diagramme, capture d’écran, ligne

Description générée automatiquement

* **Actors**: Admin, User
* **Use Cases**: Register, Login, Update Profile, View User Details, Manage User Roles (Admin only), Delete Account, Manage Users (Admin only).

# Activity diagram

## Une image contenant texte, diagramme, capture d’écran, ligne Description générée automatiquementBorrowing Process

**Actors**: Admin, User

The Admin can initiate the process by creating a new book entry, which becomes accessible to the User for searching and borrowing. The User starts by searching for a book. If the book is available, the User can choose to borrow it or reserve it if needed. Once borrowed, the User must return the book on time. If returned late, a fine is imposed. The process also allows the User to borrow additional books after completing a transaction. Finally, the Admin manages the borrowing records to complete the process.

## Une image contenant capture d’écran, diagramme, texte, ligne Description générée automatiquementUser Management

**Actors**: Admin, User

For Users, the process begins by checking if they already have an account. If they don't, they are prompted to register. If an account exists, they proceed to log in. Once logged in, the User can view their profile details. If necessary, the profile can be updated or deleted, depending on the User's needs.

On the Admin side, they can search for users and manage user roles, ensuring proper access control within the system. The diagram shows the various pathways that can be followed depending on the User's actions, such as updating or deleting their profile, while also illustrating the admin's ability to oversee user roles and account management.

# Sequence diagrams

## Une image contenant texte, diagramme, ligne, Parallèle Description générée automatiquementBook Filering

The Sequence begins with the User initiating a SearchForBook() request in the Main Window View. The Main Window View then sends a request to retrieve a filtered list of books (GetFilteredList()) to the Book List component. If the filter criteria include an author, the Book List interacts with the Author List to apply FilterByAuthor(), updating the list accordingly. Once filtered, the Book List updates, and the filtered list is returned back through the Main Window View to the User.

## Login

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# Wireframe

## Front page

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Description générée automatiquement

## Book list page

