

requirements for a simple Library:

1. Book Management:

- Store and manage information about books, including title , author(s), ISBN, publication date, genre, and additional details.
- Track availability status of book copies, indicating whether they are available for borrowing or checked out by users.
- Manage multiple copies of a book, each with a unique identifier (copy ID).

2. User Management:

- Maintain records of library users, including their names, contact information, and library card numbers.

3. Borrowing and Returns:

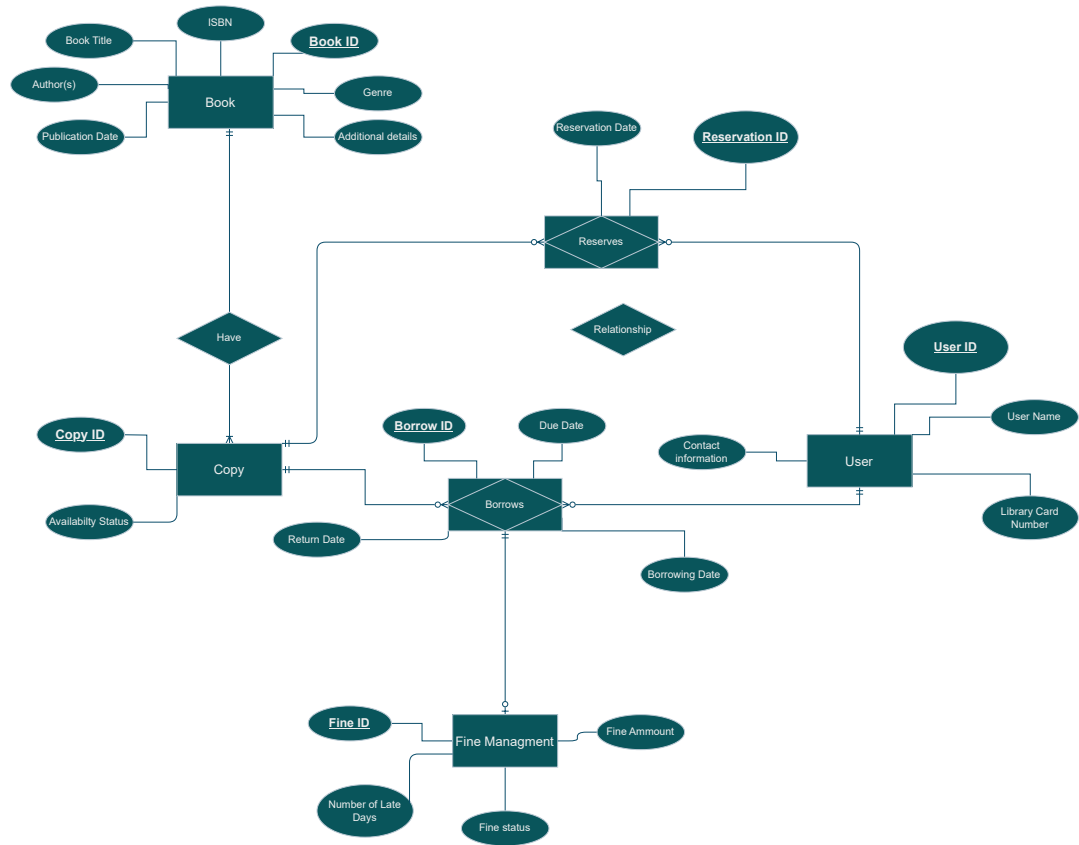
- Enable users to borrow book copies from the library.
- Track borrowing records, including the book copy borrowed, user information, borrowing date, and due date.
- Handle the return process, updating the availability status of book copies.
- Check for any fines or penalties associated with late returns or damaged book copies.

4. Holds and Reservations:

- Allow users to place holds or reservations on book copies that are currently checked out.
- Manage the order of reservations to ensure fairness.

5. Fine Management:

- Calculate and manage fines or penalties for late returns book copies.
- Keep track of the fine amount owed by each user.
- Maintain the payment status to track whether fine shave been paid or are still pending.



Books		
PK	Book ID	int
	Book Title	nvarchar(255)
	Author	nvarchar(100)
	Publication Date	date
	ISBN	nvarchar(50)
	Genre	nvarchar(50)
	Additional Notes	nvarchar(Max)

Fines		
PK	Fine ID	int
	Number of Late Days	Small int
	Fine Ammount	decimal
	Fine Status	bit
	FK User ID	int
	FK Borrow Record ID	int

User		
PK	User ID	int
	Contact Information	nvarchar(255)
	User Name	nvarchar(100)
	Library Card Number	nvarchar(50)

Book Copies		
PK	Copy ID	int
	FK Book ID	nvarchar(100)
	Availability Status	bit

Reservations		
PK	Reservation ID	int
	Reservation date	date
	FK Copy ID	int
	Fk User ID	int
	Fk User ID	int

Borrowing Records		
PK	Borrow Record ID	int
	Borrowing Date	date
	Due date	date
	FK Copy ID	int
	FK User ID	int
	Actual return date	date

Settings		
	Default Borrow Days	tiny int
	Default Fine PerDay	tiny int