

Booking Registration System

1. Database Objective

Manage the registration of books in a personal library, including information about authors, publishers, and literary genres.

2. Functional Requirements

- Register books with title, description, author, publisher, genre, and year of publication.
- Allow the registration of authors, including name and nationality.
- Allow the registration of publishers, including name and country.
- Allow the registration of literary genres.
- List the registered books with their related information.
- Search for books by author, title, genre, or publisher.

3. Non-Functional Requirements

- The system will use MySQL as the database.
- The database structure must be normalized up to the 3rd Normal Form (3NF).
- The project documentation must be available in both Portuguese and English.
- The database documentation will include a data dictionary in PDF format.
- The database uses foreign keys to maintain referential integrity.

4. Business Rules (Cardinality)

Related Entities	Business Rule	Cardinality
Book – Author	A book can have multiple authors, and an author can have multiple books.	N:N
Book – Genre	A book can have one or more genres, and a genre can be linked to zero or more books.	N:N (0:N)
Book – Publisher	A book belongs to only one publisher. A publisher can have multiple books.	N:1