



This ER diagram shows the structure of a library management system based on the XML-based Flask application. Each Book is linked to an Author, Genre, and Publisher, so we know who wrote it, what type it is, and who published it.

To keep track of whether a book is available or borrowed, the Book entity has a State attribute.

When someone borrows a book, the system creates a record in the BorrowTransaction table, for example which User borrowed it, what book they borrowed, the borrow date, and the return date.

The User entity helps track who has borrowed which books, and could be expanded later with more user info (like email or membership ID).

This was my idea on how we can structure this ER diagram. Thanks!