Library Management Application*

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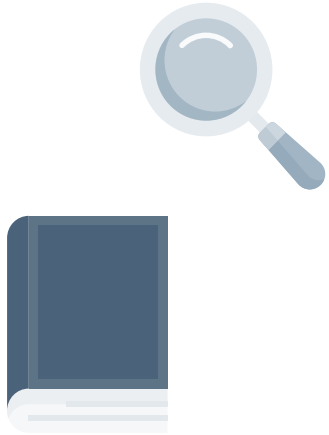
* Name TBD

System Description

Application with administrator users and end users

- For administrator, provide tasks to easily manage a library (e.g. adding, deliting, and editing books)
- For end user, provide tasks to easily utilize library resources (e.g. check-out books, search books)



Planned Implementation*

- Database
  - Supported by SQLAlchemy
- Backend
  - Python Flask
- Front-end
  - HTML and CSS

* Subject to change

Key Use Cases

For librarian and end user:

- To search books by different traits (author name, title, genre)

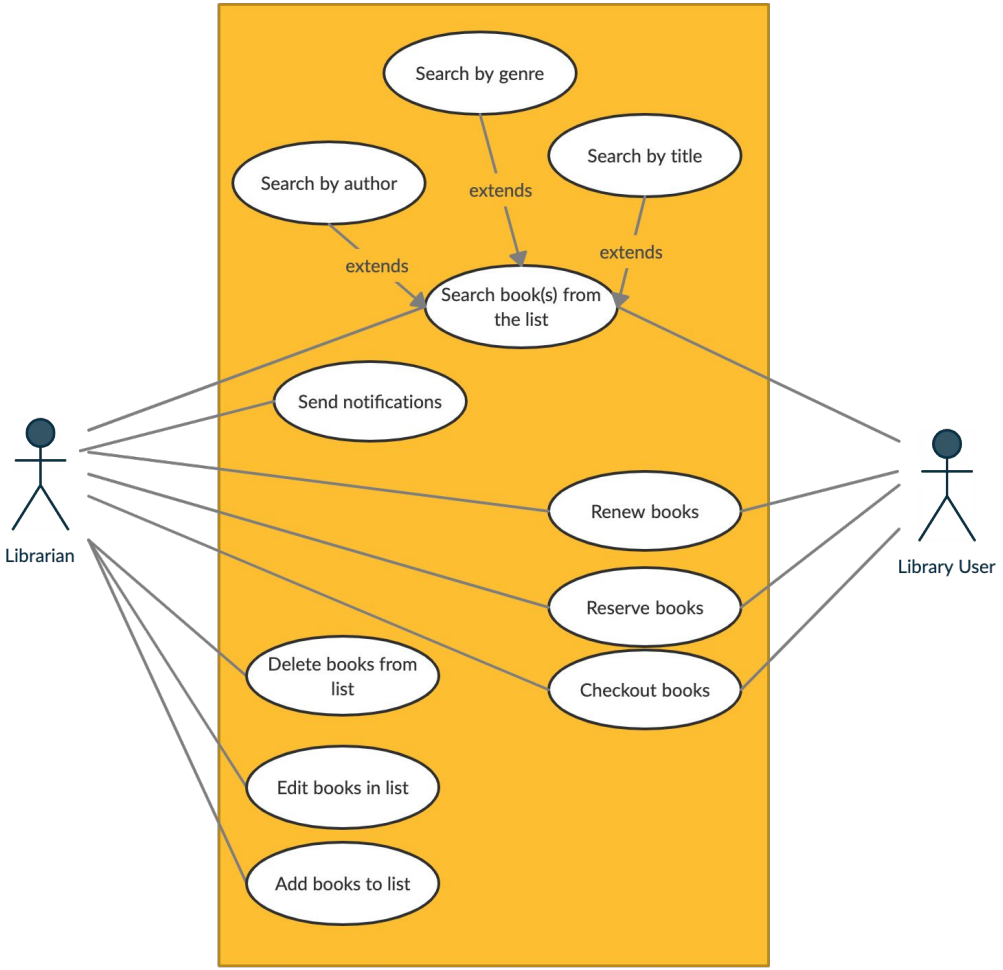
For end user:

- Check-out books
- Reserve books if not available

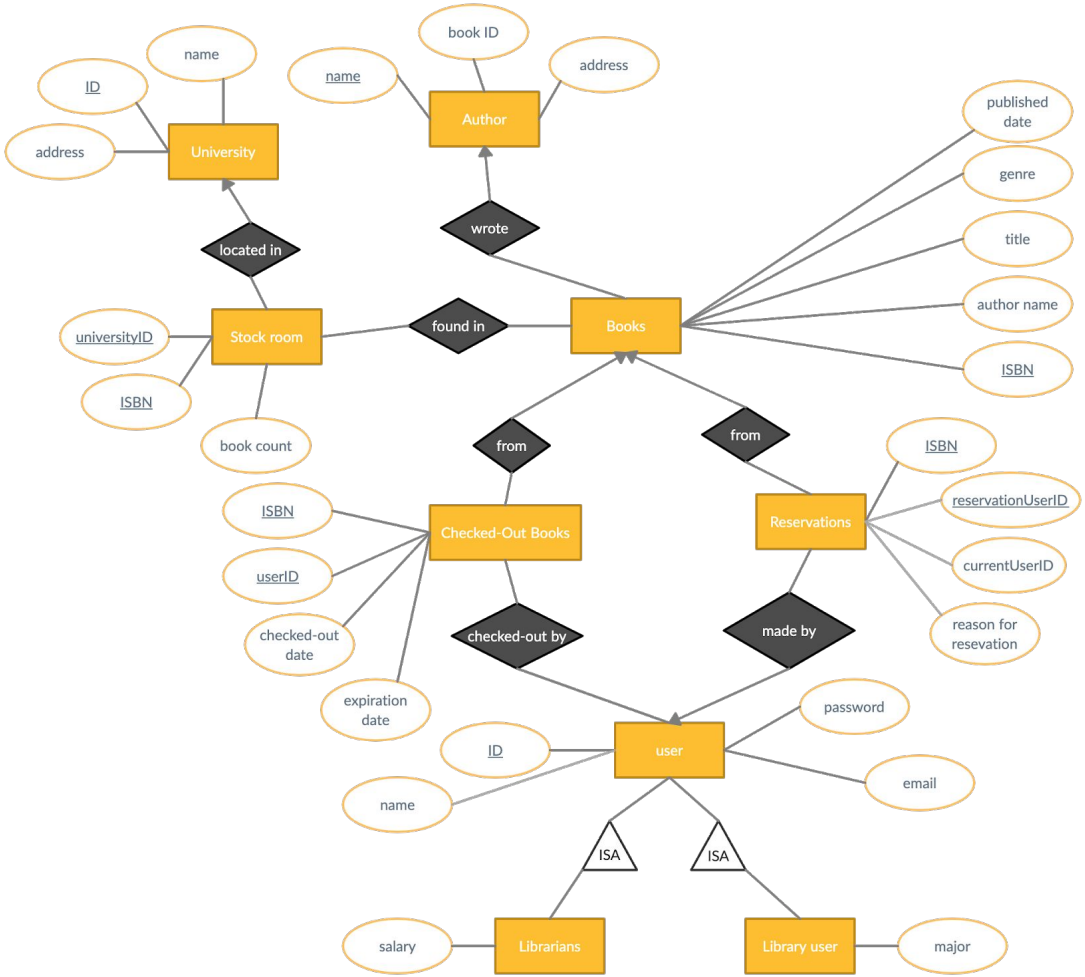
For librarian:

- Add, delete and edit books

User-Case Diagram



E/R Diagram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password
email
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name
user
ISA
ISA
salary
Librarians
Library user
major

Relational Schema

Books:
- **b_isbn**, b_authorname, b_title, b_genre, b_publisheddate

Checked-out Books:
- **cb_isbn**, **cb_userid**, cb_checkeddate, cb_experiationdate

Reservations:
- **r_isbn**, **r_fromuserid**, r_currentuserid, r_reason

Users:
- **u_userid,** u_name, u_email, u_password

Librarians
- **l_userid**, l_salary

Library users:
- **lu_userid**, lu_major

Authors:
- **a_name**, a_isbn, a_address

Stock room:
- **s_universidtyid**, **s_isbn**, s_bookcount

University:
- **uni_id,** uni_name, uni_address

Thanks!

Any questions?