

# IITM-MAD 1

## Modern Application Development

### Project report

#### Author:

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#### Description:

Name of project is "Bookluv". This is a web application project that facilitates request and issue of e-books through web. The application uses flask-python as framework, SQLAlchemy as database tool and jinja templating for the dynamics of website. The application has various features such as authentication, section management, book management. Issue and request for e-books.

#### Framework Used:

**Flask** - Backend web framework. Flask is extensively used in this project for routing, rendering, redirecting and request handling of the web application.

**Flask-SQLAlchemy** – ORM (object relational mapper) that allows developers to work with databases using python objects and expressions. SQLAlchemy is used in this project to create and manipulate the database models and queries.

**Jinja** - Jinja is a web template engine for the Python programming language. Jinja templating is used for the dynamics of web application.

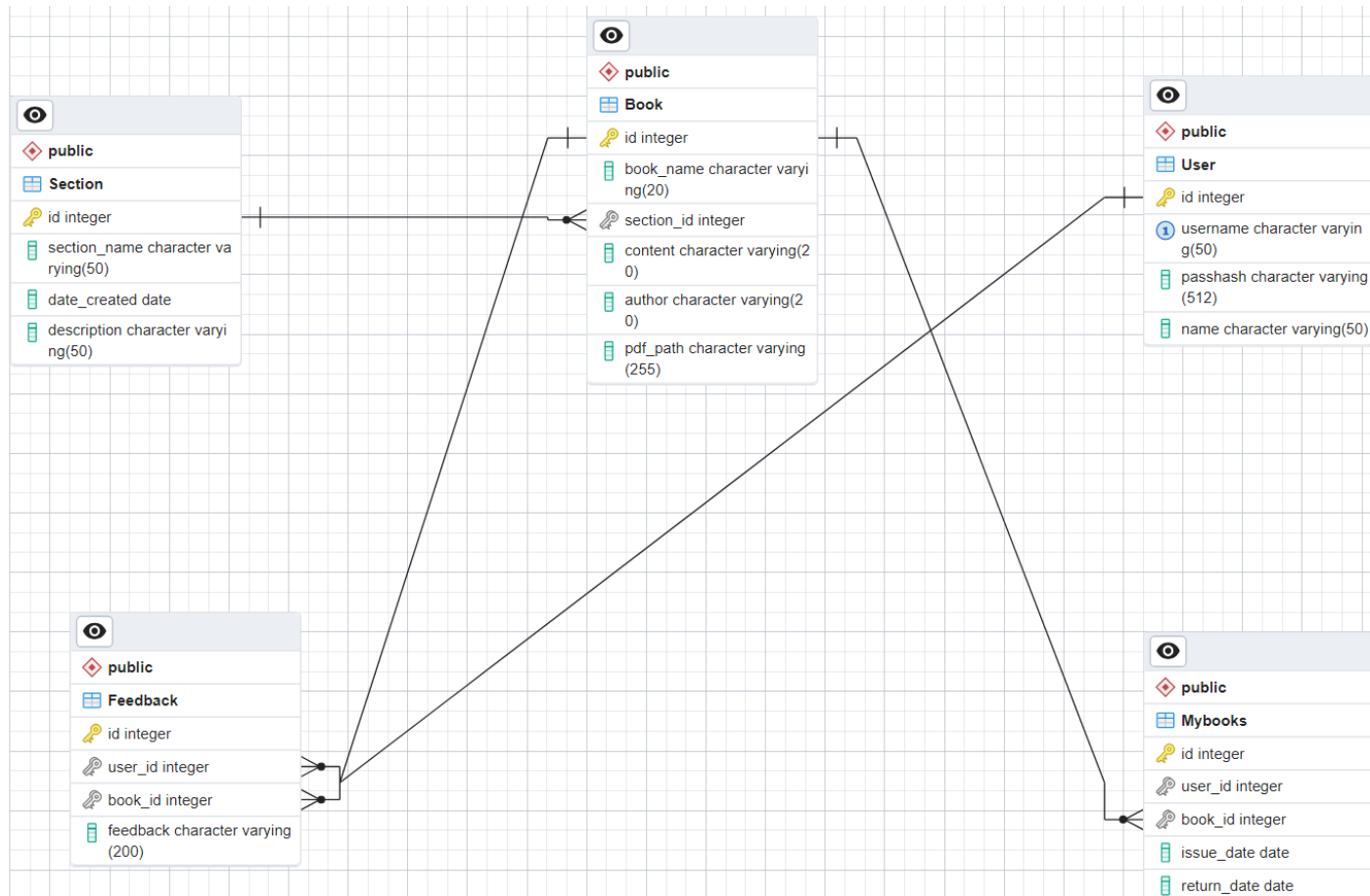
**DB Browser for SQL lite** – Quick and efficient tool for handling tables in a database, used to check entries in the tables in real time.

**Bootstrap** – a popular framework for web development that helps you to create aesthetically pleasing and user-friendly web pages.

#### Presentation Video Link:

<https://drive.google.com/file/d/1EEa24ay6VOimy4v8iw61IE2VeE362Rc9/view?usp=sharing>

## DB Schema Design:



## Relationships:

- One User can have many Feedbacks (one-to-many)
- One Book belongs to one Section (one-to-many)
- One Section can have many Books (one-to-many)

## Architecture:

The project is organised as follows:

**app.py:** this python file is used to store the database with 5 tables

**route.py:** stores the business logic

**/templates:** HTML and jinja-2 templates