

## Author

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This is Project Report on MAD1 Project Course.

## Description

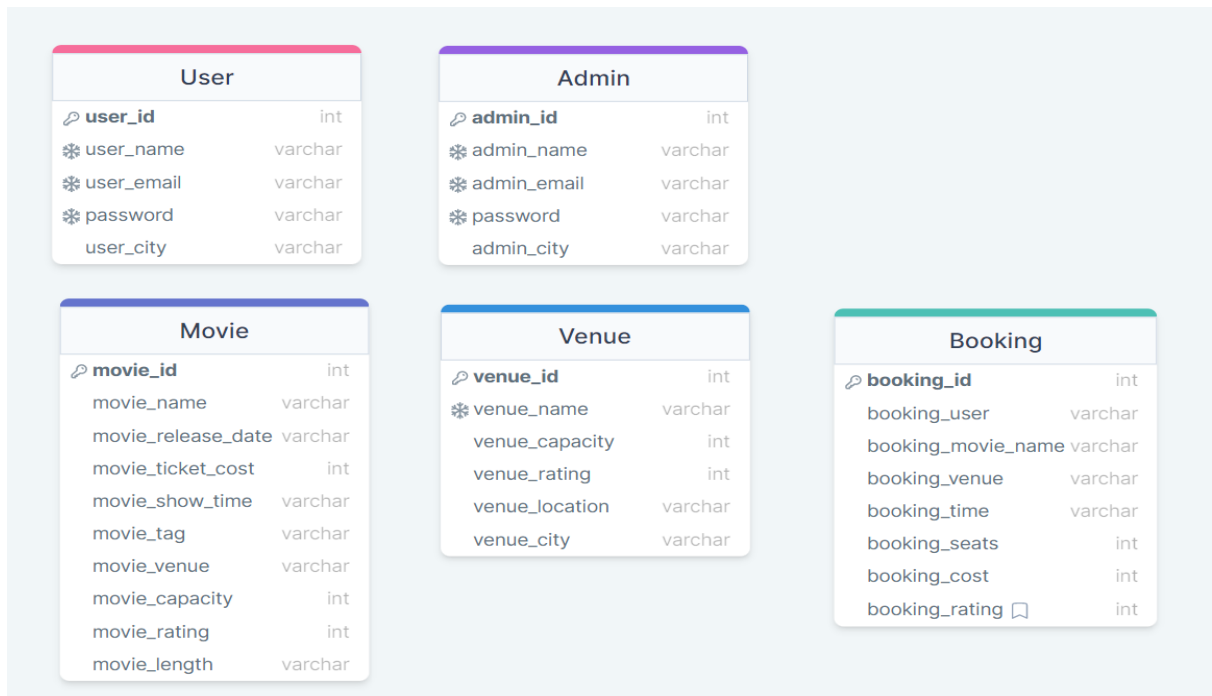
The problem statement states to develop a show ticket booking app that has majorly two categories of users i.e “Admin” and “Users”. Admin can perform CRUD operations on Shows and Venue, and User can book tickets for already present Shows.

## Technologies used

1. Flask : Flask is a Python backend-framework, the functionalities of the web app are implemented using Flask.
2. flask\_sqlalchemy- Flask\_sqlalchemy is to interact with SQLite database.
3. flask\_login – It is used for user session management.
4. Bcrypt – Bcrypt is a password hashing algorithm, it can be implemented using Python.
5. Matplotlib : Matplotlib is a plotting library of Python, it is used in Trends page to give a graphical summary about the Shows present.
6. Numpy : The major use of Numpy is along with Matplotlib to carry out mathematical operations.
7. SQLite : SQLite is the database engine, SQLAlchemy is used as ORM with this relational database.
8. HTML : The frontend of the app is created using HTML.
9. CSS : CSS is for used for providing styling and aesthetics to the HTML pages
10. bootstrap v5.2 : Bootstrap is a free, open sourcefront-end CSS framework, Bootstrap templates for buttons, navbars etc are used.

## DB Schema Design

1. User : “user\_name”, “user\_email” and “password” are set as unique
2. Admin : “admin\_name”, “admin\_email” and “password” are set as unique
3. Movie : “movie\_capacity” cannot be a null value.
4. Venue : “venue\_name” are unique and “venue\_capacity” is set to nullable=False
5. Booking : Default value of booking\_rating” is 0



## Architecture and Features

All controllers are kept in views.py and auth.py. models.py contains all database models

HTML files and static file are kept in templates and static folder respectively.

Mandatory Features:

- Admin can create, read, update, and delete Shows and Venues from database.
- User has the access to book tickets for all available shows, the system automatically stops taking booking if the show goes houseful.
- User can also search for shows based on show name and tags.

Additional Features:

- The look and feel of app is minimalistic with proper styling and aesthetics.
- The login and sign up system is secure.
- Trends page gives a pictorial and graphical representation of shows and also suggests shows based on popularity among users.
- User and Admin login based on their current and city and the system shows movies according to their present city

## Video

[https://drive.google.com/file/d/10p2Dy8dClseunLYrxQ3rkwcin9tjIKOD/view?usp=share\\_link](https://drive.google.com/file/d/10p2Dy8dClseunLYrxQ3rkwcin9tjIKOD/view?usp=share_link)