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I am a diploma student of IITM BS Degree and this is Project Report for App Dev1.

Description

We have to create a Ticket Booking App that majorly has 2 kinds of users Admin and User. Admin should be able to create, view, update and delete Shows and Venues, and User should be able to book tickets for Shows.

Technologies used

Flask : It is a backend framework to implement functionalities.

Flask_SQLAlchemy : Used for interaction with database.

Flask_login : For session management.

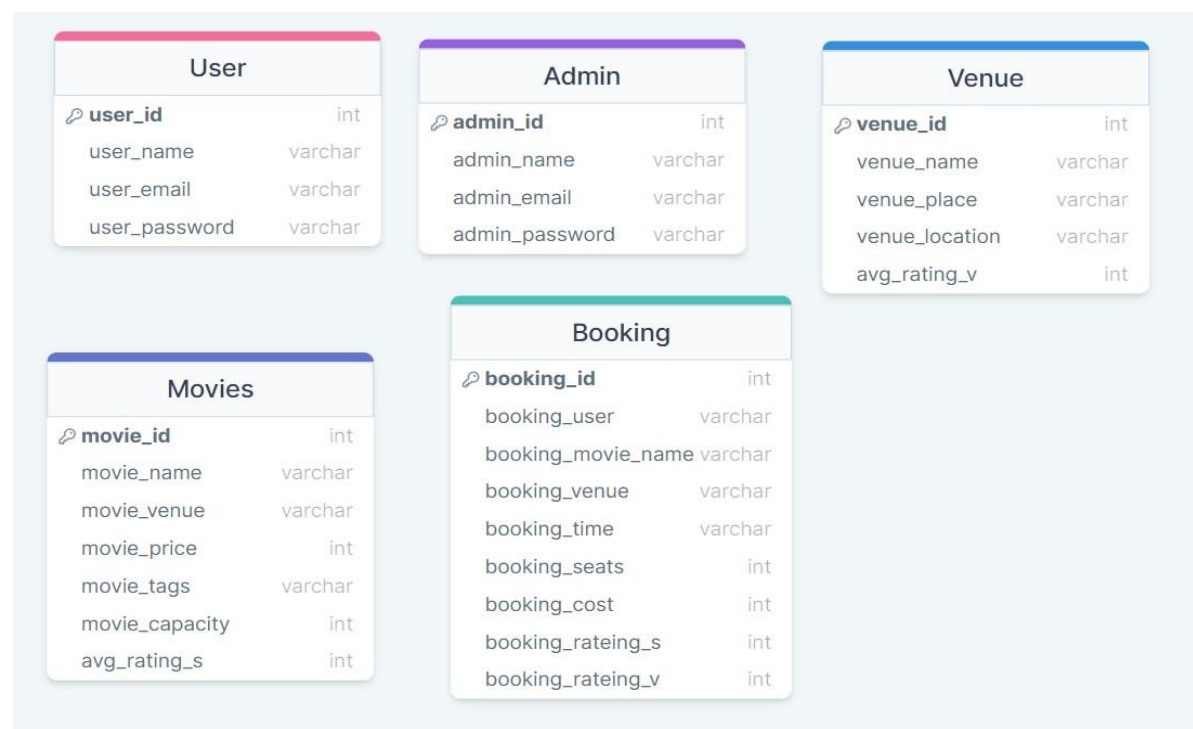
HTML, CSS and Bootstrap(v4.0) : Majorly used for Frontend development.

Werkzeug.security : It is a collection of libraries that can be used to create a WSGI compatible web application in Python.

Matplotlib : Used for displaying graphs in Python.

Sqlite : Sqlite is used as database engine.

DB Schema Design



User and Admin details are stored in User and Admin tables respectively.
Movies table contains movie/show details and Venue table contains Venue details.
Bookings get stored in Booking table.

Architecture and Features

__init__.py : initialization of app and database.
Models.py : contains all models.
Views.py and Auth.py : contains all routes.
Templates and Static folder : contains all HTML and Static files.

Mandatory Features

- Admin can apply CRUD operations on Shows and Venue.
- User can book multiple tickets for present shows.
- The system stops taking booking if a show gets housefull.
- User can search on basis of location preference.

Additional Features

- Summary page shows the Show and Venue summary and average rating) of every Show and Venue.
- User can rate Venue and Show.

Video

https://drive.google.com/file/d/1I3HqBgMIq2mMUivSD88DVLzP7sxtCt1A/view?usp=share_link