

## PROJECT REPORT By Shreyansh Pathak , R. no : 21f1003357

This is a Python project that uses Flask, SQLAlchemy, and Matplotlib libraries. It defines a database schema to store information about users, venues, shows, and bookings. The app provides an interface for admin to login, add new venues and shows, and view details about them. It also allows users to book shows and rate them.

The code defines several classes for the database schema: Admin, Venue, Show, User, and User\_show. Admin class defines the structure of the table for admin users. Venue class defines the structure of the table for venues, including venue name, location, and seat prices. Show class defines the structure of the table for shows, including show name, timing, and price. User class defines the structure of the table for users, including their username and password. User\_show class defines the structure of the table for bookings, including the user and show ids and the rating for the show.

The code defines several routes for the Flask app. admin\_login() route allows admin to login and view venues. create\_venue() route allows admin to create new venues. create\_show() route allows admin to create new shows for a venue. book\_show() route allows users to book shows and rate them.

The code uses Matplotlib library to generate a bar chart showing the number of bookings for each show. It also calculates the average rating for each show and updates the database with the new rating.

Overall, this project demonstrates the use of Flask and SQLAlchemy libraries to create a database-driven web application.

The project uses SQLAlchemy, an Object-Relational Mapping (ORM) library in Python, to interact with a SQLite database, where information about users, shows, and venues are stored. The project also uses Matplotlib, a data visualization library in Python, to generate graphs based on data from the database.

The project has several Flask routes defined, including routes for the admin login page, the admin view page, the venue creation page, the show creation page, the user registration page, the user login page, and the user dashboard page. The project also defines several Flask templates, which are HTML files that render dynamic content based on data from the database.