

# **Project Report on Ticket Booking**

## **Author:**

- **Name:** Anurag Kumar
- **Roll No:** 22dp1000105
- **Email:** [22dp1000105@ds.study.iitm.ac.in](mailto:22dp1000105@ds.study.iitm.ac.in)
- I am an engineer in material science and metallurgical engineering from UIET Kanpur passed in 2017.

## **Description:**

The ticket booking app will allow users to browse through various events and book tickets for them. The application will consist of two main parts:

- **Frontend:**

The front end of the application will be developed using HTML and CSS. Flask will be used to serve the HTML pages to the user. The Jinja2 template engine will be used to dynamically generate HTML pages with data fetched from the backend.

- **Backend:**

The backend of the application will be developed using Python, Flask, and SQLAlchemy. SQLAlchemy will be used to interact with the database and store data related to shows, venues, bookings, admins, and users.

## **Technologies Used:**

- **Flask:**

Flask is a micro web framework written in Python. It is lightweight and easy to use, making it ideal for small to medium-sized web applications. Flask provides a simple API for serving HTTP requests and rendering HTML templates.

- **Flask-SQLAlchemy:**

SQLAlchemy is an Object-Relational Mapping (ORM) library for Python. It provides a set of high-level APIs for interacting with relational databases. SQLAlchemy makes it easy to create, read, update, and delete records in a database using Python code.

- **Jinja2:**

Jinja2 is a template engine for Python. It provides a simple and powerful way to generate dynamic HTML pages using data from the backend. Jinja2 templates can be used to generate HTML pages with dynamic content, including loops, conditionals, and variable substitution.

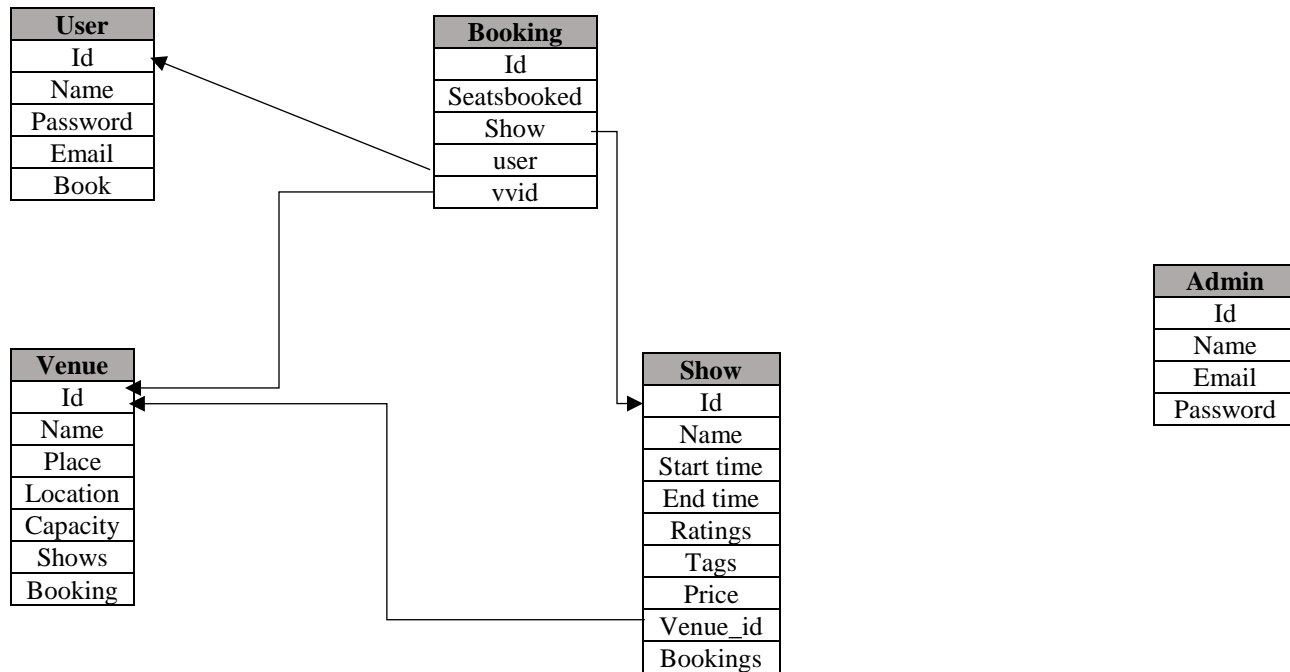
- **Flask-Admin:**

An extension to Flask that provides a web-based interface for managing the database, which can be used by the administrators of the application to manage data related to movies, theaters, shows, and bookings.

- **HTML and CSS:**

HTML and CSS are the standard technologies used to develop the front end of web applications. HTML provides the structure of the page, CSS provides the styling, and JavaScript provides the dynamic behavior

## **DB Schema and Design:**



## **Features:**

- Login page for both user and admin with proper login, logout or error messages.
- Registration page for both user and admin.
- Admin can add, update or delete venues and shows.
- Admin can also see all the shows irrespective of the venues.
- Users can search movies based on place, tags, and ratings.
- Users can book tickets with different prices for different venues.
- User can also see the booking which he had made to date.
- User will get the houseful message if no seats are available.

## **Project Video Link:**

➤ [https://drive.google.com/file/d/1mtq91pitHUo2ecaHWReOLD8bqiXRYNZp/view?usp=share\\_link](https://drive.google.com/file/d/1mtq91pitHUo2ecaHWReOLD8bqiXRYNZp/view?usp=share_link)