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A Beginner who is interested in learning data science

Description

This is a Ticket Show application where users can explore this application to book movie tickets based on their preferred venue and show timings. An admin can use this application to manage venue and show details.

Technologies used

HTML ,CSS,Bootstrap,Python,Javascript,Flask and Flask SQLAlchemy.

DB Schema Design

Below are the 5 models used in my application.

One to Many relationship - Between user and booking

Many to Many relationship - Between venue and show

```
booking (booking_id INTEGER NOT NULL,venue_name_booked VARCHAR(30) NOT
NULL,show_name_booked VARCHAR(30) NOT NULL,bookedshow_start_timing
VARCHAR(20) NOT NULL,bookedshow_end_timing VARCHAR(20) NOT NULL,total_price
INTEGER,num_of_tickets_booked INTEGER,user_id_booked INTEGER,PRIMARY KEY
(booking_id),FOREIGN KEY(user_id_booked) REFERENCES user (user_id))
```

```
show (show_id INTEGER NOT NULL,show_name VARCHAR(30) NOT NULL,show_rating
INTEGER,show_tag VARCHAR(30) NOT NULL,show_start_timing TEXT NOT
NULL,show_end_timing TEXT NOT NULL,show_ticket_price INTEGER,show_capacity
INTEGER,PRIMARY KEY(show_id))
```

```
user (user_id INTEGER NOT NULL,user_name VARCHAR(30) NOT NULL,first_name
VARCHAR(30) NOT NULL,last_name VARCHAR(30),mobile_number VARCHAR(30) NOT
NULL,user_password VARCHAR(30) NOT NULL,user_type VARCHAR(10) NOT
NULL,PRIMARY KEY (user_id))
```

```
venue (venue_id INTEGER NOT NULL,venue_name VARCHAR(30) NOT NULL,venue_place
VARCHAR(30) NOT NULL,venue_capacity INTEGER,venue_location TEXT NOT
NULL,PRIMARY KEY(venue_id))
```

venue_show_relation (venueID INTEGER NOT NULL,showID INTEGER NOT NULL,PRIMARY KEY (venueID, showID),FOREIGN KEY(venueID) REFERENCES venue (venue_id),FOREIGN KEY(showID) REFERENCES show (show_id))

API Design

No API used.

Architecture and Features

The controller is in app.py .The templates folder contains all the html files.The db models are present in ticket_model.py .The sqlite db resides inside the instance folder.

There are 2 types of login for this application.

Admin login is used by admin to create, edit and delete venues and shows.User login is used by users to view the venues and shows available and their timings.Users can use this application to book tickets for shows.

Video

https://drive.google.com/file/d/1XO_VXW9MTU1iGHljD59EWh0mpZqvvggZD/view?usp=share_link