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Description

Ticket show is a web application developed as a part of MAD 1 Course . This app is a ticket booking app for shows and events that enables users to create accounts and book multiple tickets.

Technologies used

- HTML , CSS, Javascript - For designing template and layout of the application , manipulate HTML DOM and actions
- Flask , Jinja - For application and rendering templating
- Flask Restful - For creating API
- SQLAlchemy , SQLlite3 - For Database
- Plotly - For plotting graphs and visualisations
- werkzeug - For password hashing
- JWT - For tokenizing login information

DB Schema Design

Table Name	Columns and Constraints	Table Name	Columns and Constraints
userdata	userid INTEGER PRIMARY KEY AUTOINCREMENT, username varchar(20) UNIQUE NOT NULL, name varchar(20) NOT NULL, email varchar(30) NOT NULL, password varchar(256) NOT NULL, token varchar(256) NOT NULL	admindata	adminid INTEGER PRIMARY KEY AUTOINCREMENT, adminname varchar(20) UNIQUE NOT NULL, name varchar(20) NOT NULL, email varchar(30) NOT NULL, password varchar(256) NOT NULL, token varchar(256) NOT NULL
showdata	showid INTEGER PRIMARY KEY AUTOINCREMENT, name varchar(40) NOT NULL, image_url varchar(50), rating SHORT NOT NULL, no_of_ratings SHORT DEFAULT 0, description varchar(150) NOT NULL, tags varchar(200),	venuedata	venueid INTEGER PRIMARY KEY AUTOINCREMENT, name varchar(30) NOT NULL, city_town varchar(20) NOT NULL, location_desc varchar(50) NOT NULL, coordinates varchar(30) NOT NULL, rating SHORT NOT NULL,

	release TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL		no_of_rating SHORT NOT NULL DEFAULT 0
scheduledata	scheduleid INTEGER PRIMARY KEY AUTOINCREMENT, venue_id INTEGER NOT NULL, show_id INTEGER NOT NULL, language varchar(20) NOT NULL, total_seats SHORT NOT NULL, booked_seats SHORT NOT NULL DEFAULT 0, start_time TIMESTAMP NOT NULL, end_time TIMESTAMP NOT NULL, price SHORT NOT NULL, FOREIGN KEY(venue_id) REFERENCES venuedata(venueid), FOREIGN KEY(show_id) REFERENCES showdata(showid)	bookingdata	bookingid INTEGER PRIMARY KEY AUTOINCREMENT, userid INTEGER NOT NULL, no_of_seats SHORT NOT NULL, schedule_id INTEGER NOT NULL, show_rating SHORT, venue_rating SHORT FOREIGN KEY(userid) REFERENCES userdata(userid), FOREIGN KEY(schedule_id) REFERENCES scheduledata(scheduleid)
filters	id INTEGER PRIMARY KEY AUTOINCREMENT, tagname varchar(30) NOT NULL, tagtype varchar(30) NOT NULL		

API Design

- User API , Admin API - For user/ admin information , authentication etc.
- ,Venue , show , Filter API- For creating venue , tags and show can only be accessed by admin
- Schedule , Booking API

Architecture and Features

In project root folder

API - API endpoints -> Common - common utilities for API , Controller - Model and Controller classes

Resources - API classes

Data , static , templates - HTML templates , app.py

Video

https://youtu.be/_XLosw7jAI0

Or

https://www.youtube.com/watch?v=_XLosw7jAI0