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I'm a final year student pursuing B.Tech IT at Government College of Technology, Coimbatore, Tamil Nadu. I love to code and to build and develop solutions that could be helpful for a community.

Description:

Ticket Show app is a Movie Ticket Booking application which enables the users to book tickets for the particular shows in the theatres and can cancel the booking and view all past shows and old bookings and current bookings

Admin User can add, update, delete, view the shows, theatres [RBAC]

There is login and signup in the front end which are backed up by the flask api.

Technologies used:

Frontend:







- Vue JS
- Bootstrap

Backend:





- Flask, Traditional Flask Routing API
- Flask Mail for mailing
- Flask CORS for CORS
- Flask Caching for cache
- Celery and Redis for Async jobs
- SQLite Database

DB Schema










1. User

 id	INTEGER	"id" INTEGER NOT NULL
 username	VARCHAR(50)	"username" VARCHAR(50) NOT NULL
 email	NUMERIC	"email" NUMERIC NOT NULL
 hash	TEXT	"hash" TEXT NOT NULL
 role	VARCHAR(20)	"role" VARCHAR(20) NOT NULL
 last_login	TEXT	"last_login" TEXT













2. Theatre

 id	INTEGER	"id" INTEGER NOT NULL
 name	VARCHAR(50)	"name" VARCHAR(50)
 venue_location	VARCHAR	"venue_location" VARCHAR NOT NULL
 venue_capacity	INTEGER	"venue_capacity" INTEGER NOT NULL

3.Shows

 show_id	INTEGER	"show_id" INTEGER NOT NULL
 show_name	VARCHAR	"show_name" VARCHAR NOT NULL
 show_rating	VARCHAR	"show_rating" VARCHAR NOT NULL
 show_timing	VARCHAR	"show_timing" VARCHAR NOT NULL
 show_tags	VARCHAR	"show_tags" VARCHAR NOT NULL
 show_price	INTEGER	"show_price" INTEGER NOT NULL
 total_tickets	INTEGER	"total_tickets" INTEGER NOT NULL
 booked_tickets	INTEGER	"booked_tickets" INTEGER
 theatre_id	INTEGER	"theatre_id" INTEGER NOT NULL

4.Ticket_Booking

 id	INTEGER	"id" INTEGER NOT NULL
 username	VARCHAR(100)	"username" VARCHAR(100) NOT NULL
 email	VARCHAR(100)	"email" VARCHAR(100) NOT NULL
 theatre_name	VARCHAR(100)	"theatre_name" VARCHAR(100) NOT NULL
 location	VARCHAR(100)	"location" VARCHAR(100) NOT NULL
 show_timing	VARCHAR(100)	"show_timing" VARCHAR(100) NOT NULL
 show_name	VARCHAR(100)	"show_name" VARCHAR(100) NOT NULL
 total_tickets	INTEGER	"total_tickets" INTEGER NOT NULL
 total_price	FLOAT	"total_price" FLOAT NOT NULL
 timestamp	DATETIME	"timestamp" DATETIME NOT NULL
 show_id	INTEGER	"show_id" INTEGER NOT NULL
 show_status	VARCHAR	"show_status" VARCHAR

Frontend Design

- Usage of Vue 2 and Vue Router
- Vue Components for common components like navigation, add,update theatres,shows search etc.,
- Usage of fetch api to get the data from backend

Backend Design

- API file is api.py(/21f2000483)
- Requirements specified in requirements.txt
- Functionalities such as cache, Cors, Mail are implemented in api.py
- Celery-Worker function implemented in celery_worker.py
- Celery Async jobs are downloading the theatre details export as csv & download
- Scheduled jobs are done for sending monthly entertainment reports, sending daily reminders

API Design

- This API uses JWT based authentication which would need the token to be sent along with the cookie header of the request for 10 minutes expiry time
- Except the Home page and authentication, all the api routes are authenticated with cookie based authentication
- API has CRUD operation for the Theatres,Shows → Only for Admin
- API supports Book_tickets for both type of users
- Booking has post method for booking_tickets and delete method for cancellation of tickets
- Job Scheduling mails for reminder and monthly entertainment report are send using Celery,Redis
- User Triggered(Admin) export csv and download csv for the theatre_details with shows

Video Link:

<https://drive.google.com/file/d/1a6HDNBfJ6SngZsY30fPcdIB1Y5HGTLqt/view?usp=sharing>