

Author

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About me: I am currently a diploma level student enrolled in the online degree program at IIT Madras.

Simultaneously, I am pursuing a B.Tech in Computer Science and Engineering at Ujjain Engineering College, located in Ujjain. This dual pursuit reflects my dedication to advancing my knowledge and skills in the field of computer science. Description

The project aimed to develop a comprehensive multiuser ticket booking application, encompassing a user friendly interface for seamless management (CRUD operations) of venues, shows, and movies by administrators. The application's scope extends beyond its interface, providing well-structured APIs to facilitate future project integration. Leveraging Redis, the app efficiently handles scheduled tasks and asynchronous jobs, enhancing performance and ensuring a robust user experience.

Technologies used

SqlAlchemy Flask, Cors ,

FlaskRestful, Flas-Security-Too

Celery, Redis

DataBase Schema

Name	Design		
Booking	id	INTEGER	"id" INTEGER
	user_id	INTEGER	"user_id" INTEGER NOT NULL
	venue_show_id	INTEGER	"venue_show_id" INTEGER NOT NULL
	no_of_ticket	INTEGER	"no_of_ticket" INTEGER NOT NULL
	rating	INTEGER	"rating" INTEGER
	timestamp	TEXT	"timestamp" TEXT NOT NULL
Movie	id	INTEGER	"id" INTEGER
	name	TEXT	"name" TEXT NOT NULL UNIQUE
	caption	TEXT	"caption" TEXT NOT NULL
	rating	INTEGER	"rating" INTEGER NOT NULL
	tags	TEXT	"tags" TEXT NOT NULL
	no_of_rating	INTEGER	"no_of_rating" INTEGER NOT NULL
Role	id	INTEGER	"id" INTEGER
	name	TEXT	"name" TEXT NOT NULL UNIQUE
	description	TEXT	"description" TEXT

Roles_user	user_id	INTEGER	"user_id" INTEGER
	role_id	INTEGER	"role_id" INTEGER
User	id	INTEGER	"id" INTEGER
	name	TEXT	"name" TEXT NOT NULL
	age	INTEGER	"age" INTEGER NOT NULL
	gender	TEXT	"gender" TEXT NOT NULL
	email	TEXT	"email" TEXT NOT NULL UNIQUE
	password	TEXT	"password" TEXT NOT NULL
	active	TEXT	"active" TEXT
	fs_uniquifier	TEXT	"fs_uniquifier" TEXT NOT NULL UNIQUE
	last_login_at	TEXT	"last_login_at" TEXT
	current_login_at	TEXT	"current_login_at" TEXT
	last_login_ip	TEXT	"last_login_ip" TEXT
	current_login_ip	TEXT	"current_login_ip" TEXT
	login_count	INTEGER	"login_count" INTEGER
Venue	id	INTEGER	"id" INTEGER
	movie_id	INTEGER	"movie_id" INTEGER NOT NULL
	venue_id	INTEGER	"venue_id" INTEGER NOT NULL
	price	INTEGER	"price" INTEGER NOT NULL
	remaining_capacity	INTEGER	"remaining_capacity" INTEGER NOT NULL
	date	TEXT	"date" TEXT NOT NULL
	start_time	TEXT	"start_time" TEXT NOT NULL
	end_time	TEXT	"end_time" TEXT NOT NULL
Venueshow	id	INTEGER	"id" INTEGER
	name	TEXT	"name" TEXT NOT NULL UNIQUE
	caption	TEXT	"caption" TEXT NOT NULL
	capacity	INTEGER	"capacity" INTEGER NOT NULL
	rating	INTEGER	"rating" INTEGER NOT NULL
	address	TEXT	"address" TEXT NOT NULL
	city	TEXT	"city" TEXT NOT NULL
	no_of_rating	INTEGER	"no_of_rating" INTEGER NOT NULL

API Design

All the request are handle by flask-restful only.

Architecture and Features

The application's core resides within the `main.py` backend file, orchestrating the creation and management of venues, movies, and shows, while leveraging the `templates` directory for rendering and the `static/image` folder for visual content. Administrators have the authority to establish and interconnect venues and movies, while users can seamlessly book tickets, explore events, and benefit from automated tasks. A standout feature is the temporary comparison table, enabling users to efficiently assess pricing and availability options, further enriching their interaction with the platform.

Video

<https://drive.google.com/file/d/1YoxaD9wrx-ipRiDALEYe42t7yvWwwI9b/view?usp=sharing>