# **MAD2 PROJECT REPORT**

# Ticket Buddy: A ticket booking web application 14th August, 2023

#### **AUTHOR:**

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About me: Currently I am enrolled in the BS degree from IIT in Data Science and Applications, Madras. Simultaneously, I am also pursuing a BTech. Degree from IEM, Kolkata in CSE with specialization in AI & ML. Recently, I have also worked as a Data Science intern at Happymonk, Bengaluru.

# I. PROJECT DESCRIPTION:

TicketBuddy is a ticket booking web app that is designed for booking tickets. It allows users to book tickets for various movies across different venues. There are two roles: user and admin. Regular users can sign up, log in, search for movies and book tickets, while the admin has additional privileges such as managing venues and movies. There is a varied movie price for every movie in every theater. There is also search functionality available, as well as frequent reminders for the user to stay updated.

#### II. TECHNOLOGIES USED:

• Frontend: Vue, Vue Cli, HTML

• Backend: python, Flask

• Styling: Bootstrap, Vue Bootstrap

• Database: SQLite

API handling: InsomniaSecurity: JSON Web Tokens

• Caching: Redis

Batch jobs: Redis and CeleryRedis and Celery handling: WSL

#### III. DATABASE SCHEMA:

The Ticket Booking Web App employs the following data models:

admin	customer	category	movie	booking	<u>venue</u>
admin_id (PK) email password name	cust_id (PK) email password name address phone	category_id (PK) name description	movie_id (PK) venue_id (FK) name movie_rating movie_time category_id (FK) ticket_price number_of_seats	booking_id (PK) cust_id (FK) venue_id (FK) movie_id (FK) number_of_tickets	venue_id (PK) venue_name venue_state venue_city

# IV. API DESIGN:

Common Routes	Routes specific to user	Routes specific to admin	
<ul> <li>/register</li> <li>/adminmovie</li> <li>/exportcsvasync</li> <li>/cint:venue_id&gt;</li> <li>/exportresult/<string:id></string:id></li> </ul>	<ul> <li>/login</li> <li>/updateprofile</li> <li>/pickvenue</li> <li>/pickmovie</li> <li>/useraddbooking/<int: movie_id_param=""></int:></li> <li>/search_venue_keywo rd/<string:keyword></string:keyword></li> <li>/search_movie_keyw ord/<string:keyword></string:keyword></li> </ul>	<ul> <li>/loginadmin</li> <li>/admincustomers</li> <li>/admincategories</li> <li>/deletecategory/<int:category_id></int:category_id></li> <li>/adminaddcategory</li> <li>/modifycategory/<int:category_id></int:category_id></li> <li>/adminvenue</li> <li>/deletevenue/<int:venue_id></int:venue_id></li> <li>/adminaddvenue</li> <li>/modifyvenue/<int:venue_id></int:venue_id></li> <li>/deletemovie/<int:movie_id></int:movie_id></li> <li>/adminaddmovie</li> <li>/modifymovie/<int:movie_id></int:movie_id></li> <li>/exportcsv</li> </ul>	

# V. FEATURES:

The Ticket Booking Web App offers the following features:

- user registration and authentication
- login with RBAC
- venue and movie table management (Admin-only)
- user can book multiple shows
- movie and venue search functionality
- Scheduled daily reminders and monthly entertainment reports
- Exporting CSV
- Performance optimization through caching
- can work as a desktop application

#### VI. CONCLUSION:

The Ticket Booking Web App successfully provides users with an efficient and user-friendly platform to browse and book tickets for various shows. The combination of Flask, VueJS, Redis, and Celery contributes to a high-performance application that meets the system requirements.

#### VII. VIDEO:

https://drive.google.com/file/d/1jhlsNtKrsWtwnDqdFazXni0QLBwaRAJM/view?usp=sharing