Author

Sandeep Nalla

21f1006125

21f1006125@student.onlinedegree.iitm.ac.in

About: Software Professional with 10 years of industry experience with the following skill sets

- REST API development using Spring Boot/Spring Reactive (Java) framework
- Frontend development using ReactJs
- Automation Frontend (Web & Mobile Apps) using Selenium (Java) & REST API using RestAssured (Java)

Description

Implement Ticket Show web app for managing theatres, shows, and booking shows

- Signup and Role Based Login
- Business:
  - Creating, updating, and deleting a theatre; Theatre listing and searching
  - Creating, updating, and deleting a show
  - Exporting Theatre and show reports
  - Daily Reminder and Monthly reports
- Retail:
  - Show listing and searching
  - Booking show
  - Booking list & pagination
- Windows App, Mobile friendly web app

Technologies used

- Flask==2.2.3 – To build a Flask application
- Flask-RESTful==0.3.9 – To build REST APIs
- Flask-SQLAlchemy==3.0.3 – To connect to DB
- Flask-CORS==3.0.10 – To have cross-origin communication
- PyJWT==2.8.0 – To allow authenticated users to login & authorized users to perform action
- Jinja2==3.1.2 – To generate HTML programmatically for email
- requests==2.28.2 – To make an API call from the Flask app
- celery==5.2.7 – To build asynchronous jobs
- redis==4.5.4 – To act as celery broker and results backend and performance management
- celery-schedulers==0.0.4 – To schedule the jobs
- Flask-Mail==0.9.1 – To send emails from the application
- Vue CLI – Reactive UI framework
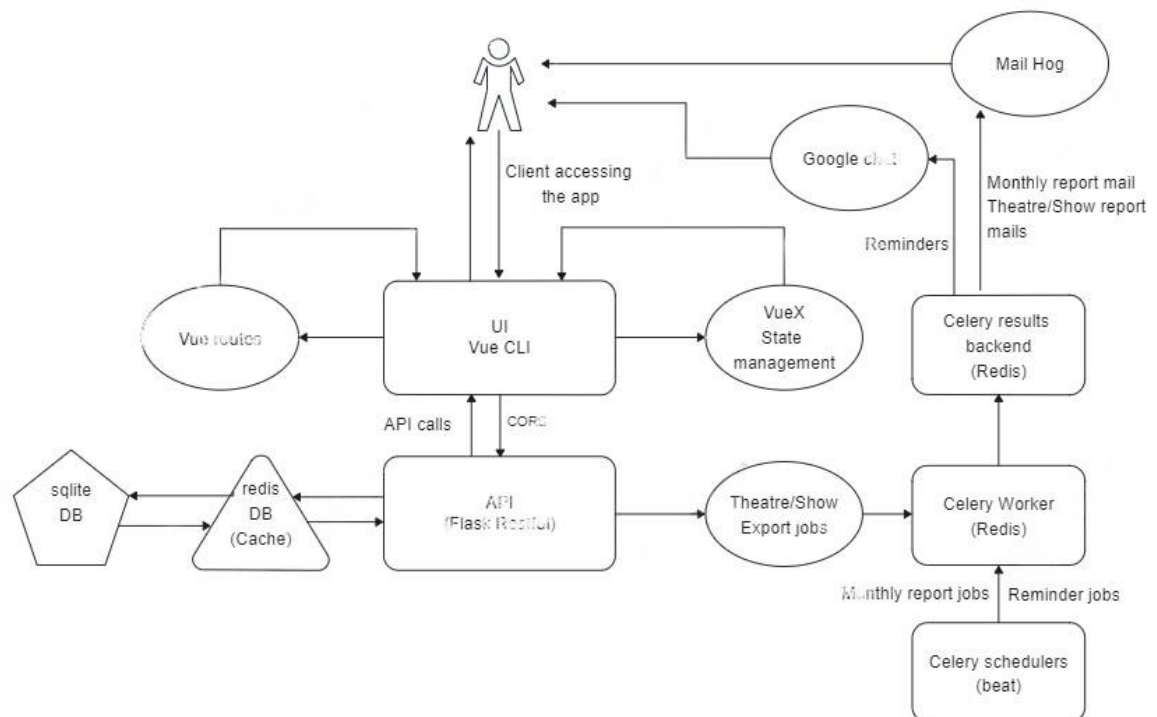- Electron JS – Windows app build
- Bootstrap – UI framework

Tools used

- Visual Studio Code (IDE)
- DB Browser for SQLite
- Ubuntu (WSL)
- Docker Desktop
- RedisInsight
- MailHog

DB Schema Design

- User – For storing user details
- Theatres – For storing theatre details
- Shows – For storing show details
- Bookings – For storing booking details

System Design

Video Link

https://drive.google.com/file/d/1pjvVtaSc-koqRj3bGZX56Ctuim982yRD/view?usp=sharing