Modern Application Development 2

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I am Tripurari Kumar. I am currently pursuing a BS in Data Science from IIT Madras and is at Diploma level. I have a strong interest in Development and Data Science. I am passionate about building scalable and efficient application and explores new technologies to enhance my skill

Project Description

In my Modern Application Development 2 project, I am focusing on full stack development. I prepared a Quiz Master application that role-based access application design to manage subject, chapter, quizzes, question and track user scores.

Technologies Used

Backend

♦ Flask: Used for building the backend of application

♦ Flask Restful: used for creating RESTful APIs

Frontend

♦ Vue.js: User for building UI

♦ Jinja2

Bootstrap: Used for Styling

♦ Chart.js: Used for data visualization

Database

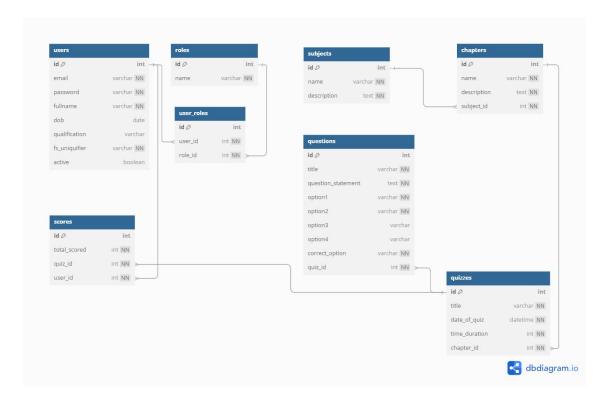
♦ SQLite: Used as the database

Caching & Background Jobs

♦ Redis: Used for caching

♦ Redis & Celery: Used for batch job

Database Schema



Routes

- ➤ /login
- > /logout
- > /register
- > /create-csv
- > /get-csv/<id>
- > /user-csv
- > /get-user-csv/<id>

<u>API</u>

- > /api/subjects
- > /api/subjects/<int:id>
- /api/subjects/<int:subject_id>/chapters
- /api/chapters/<int:id>
- /api/chapters/<int:chapter_id>/quizzes
- /api/quizzes/<int:id>
- /api/quizzes
- /api/quizzes/<int:id>/questions

- /api/questions/<int:id>
- /api/ submit_quiz
- > /api/user/<int:user_id>/score
- /api/quiz_summary

Video Link

Video Presentation