

Project Submission Report

Quiz Master v2 - Quiz preparation platform

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Quiz Master v2

Introduction

Quiz Master v2 is a project created using Vue.js - the progressive JavaScript framework - and the flask python web development framework. The project provides a responsive web app that allows the admin - the quiz master - to create subjects and quizzes, and allows users to register in order to take the quizzes and also view the quiz and user attempt statistics for each user and the admin.

Libraries Used

- Frontend
 - Vue.js (for developing the web app frontend)
 - Vue-Router (for routing)
 - Vuex (for state management)
- Backend
 - Flask (for developing the web app frontend)
 - Flask-JWT-Extended (for user authentication)
 - Flask-SQLAlchemy (for database)
 - Flask-Restful (for RESTful API development)
 - Matplotlib and Seaborn (for plotting the statistics)

Build and Run Steps

setup and build the frontend

```
@frontend$ npm ci
```

```
@frontend$ chmod +x build_frontend.sh && ./build_frontend.sh
```

setup the backend

```
@backend$ python3 -m venv .venv && source .venv/bin/activate
```

```
@backend$ pip install -r backend/requirements.txt
```

setup the celery async worker tasks

```
@backend$ celery -A app.celery worker --loglevel=INFO
```

setup the recurring celery beat tasks

```
@backend$ celery -A app.celery beat--loglevel=INFO
```

run the flask app

```
@backend$ flask run
```