

SQLGenie Codebase

This documentation provides an overview of the SQLGenie project codebase, focusing on the purpose and functionality of each code file.

First locally run Qdrant VectorDatabase image on PC using docker image.

```
docker pull qdrant/qdrant
```

```
docker run -p 6333:6333 -p 6334:6334 \
-v $(pwd)/qdrant_storage:/qdrant/storage:z \
qdrant/qdrant
```

To create the Docker image for the Streamlit app, uncomment the relevant code in the `Dockerfile`. The `Dockerfile` contains instructions for both the Flask API and the Streamlit app. Ensure that only the desired section is active before building the image.

Files Overview

1. `app.py`

Streamlit app setup and user interface.

2. `llama3.py`

Integration with LLaMA 3 language model.

3. `model.py`

Integration with OpenAI language model.

4. `sqlcoder.py`

Integration with Defog's SQLCoder LLM.

5. `training_data.py`

Manages training data for Qdrant vector database.

6. `main.py`

Flask API backend setup and endpoints.

7. `requirements.txt`

Python dependencies list.

8. `Dockerfile`

The `Dockerfile` contains instructions for creating Docker images to run both the Flask API and the Streamlit app. It includes steps to install system dependencies, copy project files, install Python dependencies, expose necessary ports, and define the commands to start the respective applications.