**Architecture:**

Ảnh có chứa phim hoạt hình, ảnh chụp màn hình, hình mẫu

Mô tả được tạo tự động

**References:** <https://github.com/Kavit900/data-streaming-kafka-flink-postgres.git>

**Steps:**

* Create a folder named data-streaming-pipeline **🡪 OK**
* Create three folders for each of our components **🡪 OK**
* kafka-producer
* flink-processor
* postgresDB
* Create Dockerfile for all the three folders **🡪 OK**
* Create a sql file for Postgres folder and add the execution of it to the Dockerfile 🡪 **OK**
* Now, go to the python producer folder anf create a new py file **🡪 OK**
* Create a requirements.txt file and all the dependencies required **🡪 OK**
* Add logic to generate random uuid and floating numbers representing temperature and produce it to a kafka topic **🡪 OK**
* Add all the required steps to the Dockerfile of the python producer **🡪 OK**
* Move onto Flink processor folder and create a pom.xml file **🡪 OK**
* Add the required dependencies to the pom.xml file **🡪 OK**
* Create a directory structure for Main.java file along with other required files 🡪 **OK**
* After that add all the steps in the Dockerfile **🡪 OK**
* Move to the parent directory and create a docker-compose file **🡪 OK**
* Add all the services and configs to the docker-compose file **🡪 OK**
* Run docker-compose up -d to run all the containers **🡪 OK**
* Now, let’s log into Postgres container – **docker exec -it postgres psql -U postgres -d postgres** and check the entries in the table **🡪 OK**