**Kafka-PostgreSQL-Logger**

**Real-time User Input Logging with Apache Kafka and PostgreSQL**

This project demonstrates a real-time data pipeline using Apache Kafka and PostgreSQL. A Kafka producer captures user input from the console and sends it to a Kafka topic named TheRealDB. A Kafka consumer listens to this topic, receives the messages, and stores them in a PostgreSQL database in a table called messages.

**Start ZooKeeper:**

.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties

**Start Kafka Server:**

.\bin\windows\kafka-server-start.bat .\config\server.properties

**Create Kafka Topic:**

.\bin\windows\kafka-topics.bat --create --topic TheRealDB --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1

**Create a database:**

pgAdmin 4 🡪 server 🡪database 🡪create 🡪database 🡪name for the database(LOLO)

LOLO 🡪Query tools 🡪code for table creation 🡪run the code🡪 Table is created

Code for the table:

CREATE TABLE messages (

id SERIAL PRIMARY KEY,

user\_input TEXT NOT NULL,

system\_output TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

LOLO 🡪Query tools 🡪SELECT \* FROM messages; 🡪run the code

**Write Code: producer.py, consumer.py and db\_test.py**

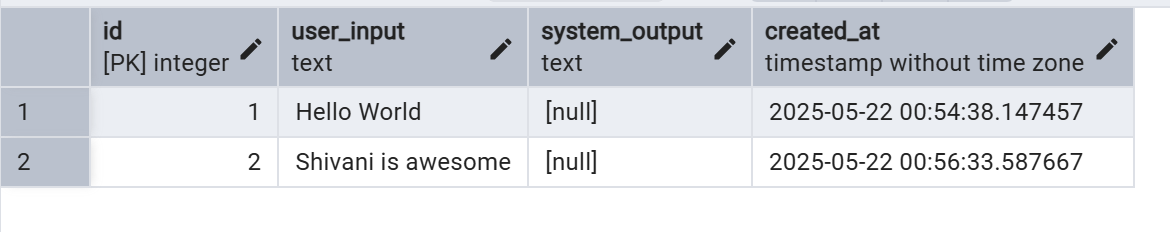
Run the codes in separate cmd

**Flow Diagram:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Final Table:**

****