9 GUVI

Capstone Project 1

YouTube Data Harvesting and Warehousing

using SQL, MongoDB and Streamlit

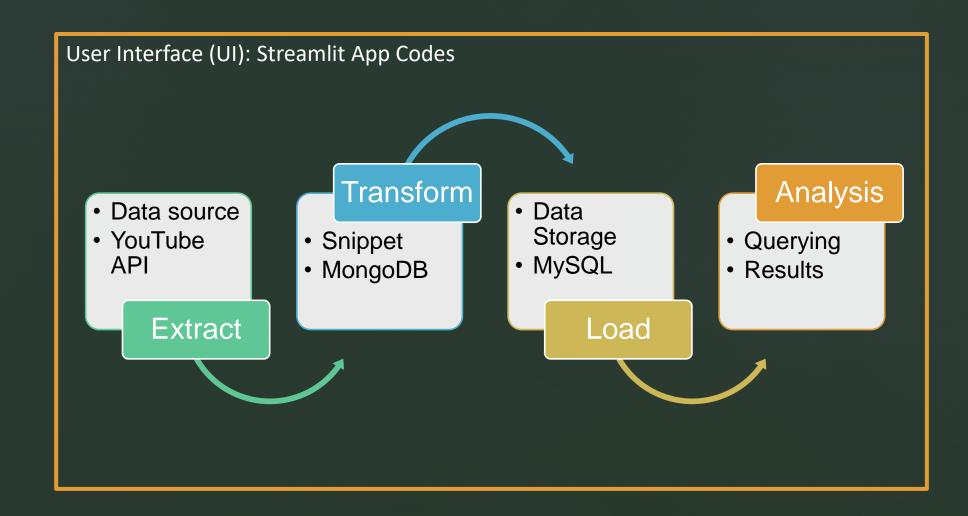
Rajaguru Irusan

Project Overview

Objective

The project focuses on creating a Streamlit application for accessing and analyzing data from multiple YouTube channels. The application encompasses various features for data extraction, storage in both MongoDB and SQL databases, and querying the SQL database to retrieve data based on questions selected by the user.

Project Workflow



System Requirements

- Visual Studio Code Version: 1.85.1 or later
- MongoDB Compass Version: 1.41.0 or later
- MySQL and MySQL Workbench Version: 8.0.34 or later

Note: Install above tools to execute the project.

PIP Installations

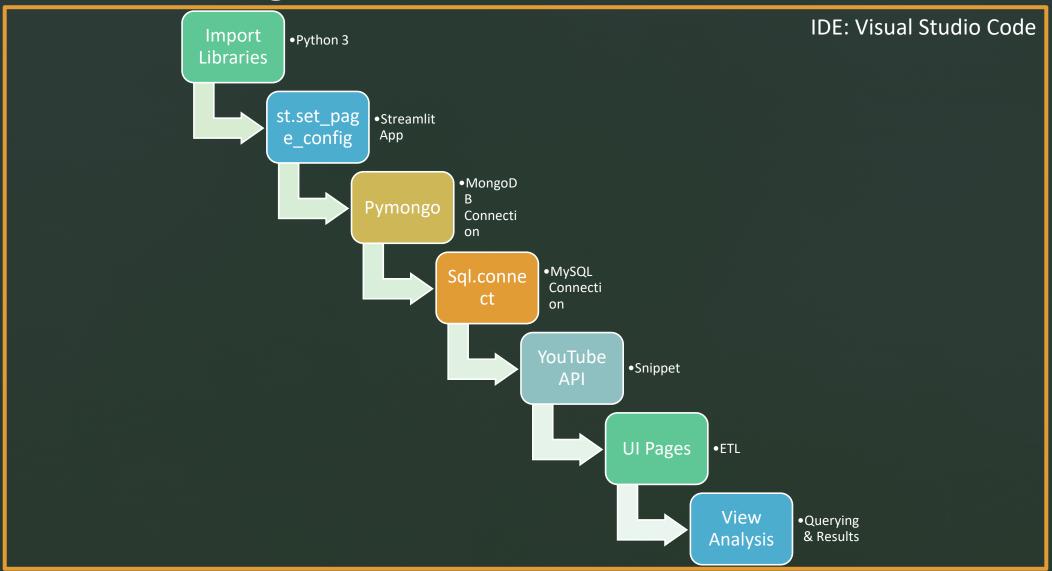
- pip install google-api-python-client
- pip install pandas
- pip install plotly
- pip install plotly.express
- pip install streamlit
- pip install streamlit_option_menu
- pip install mysql
- pip install mysql.connector
- pip install pymongo

Note: Install the above pip in respective IDE terminal (Eg: VS Code terminal or Run in cmd for Windows)

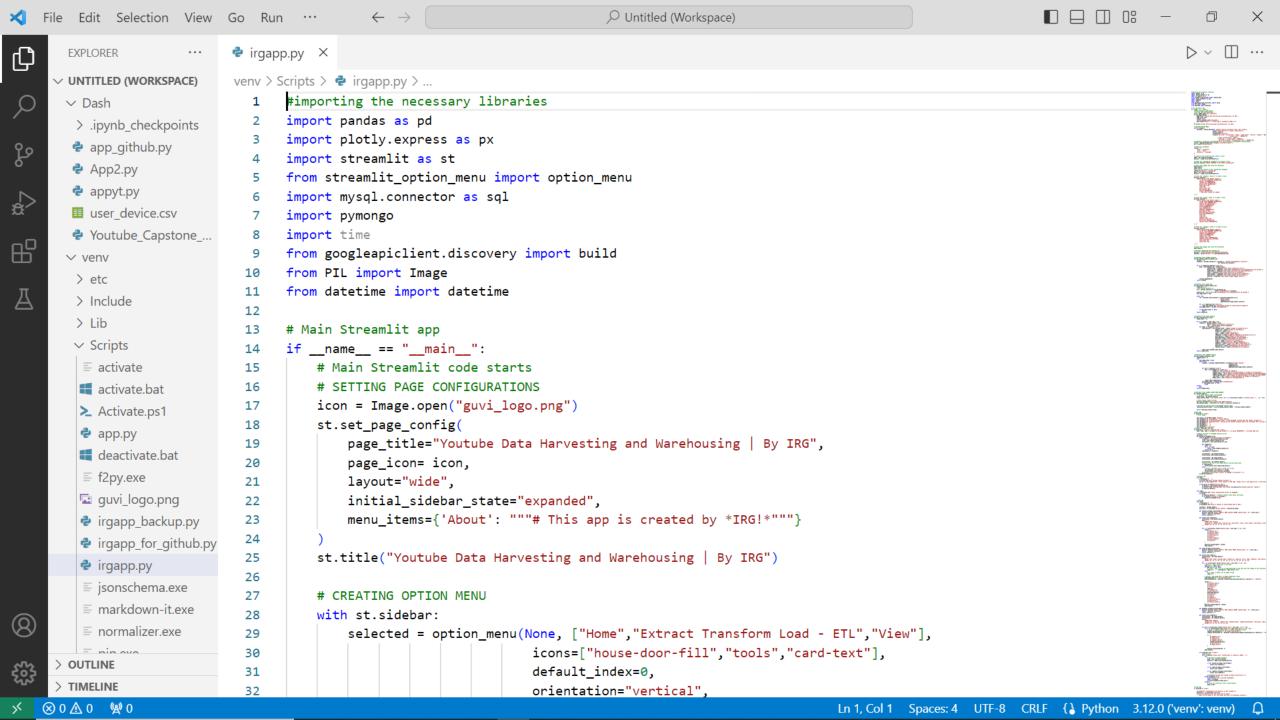
Coding References

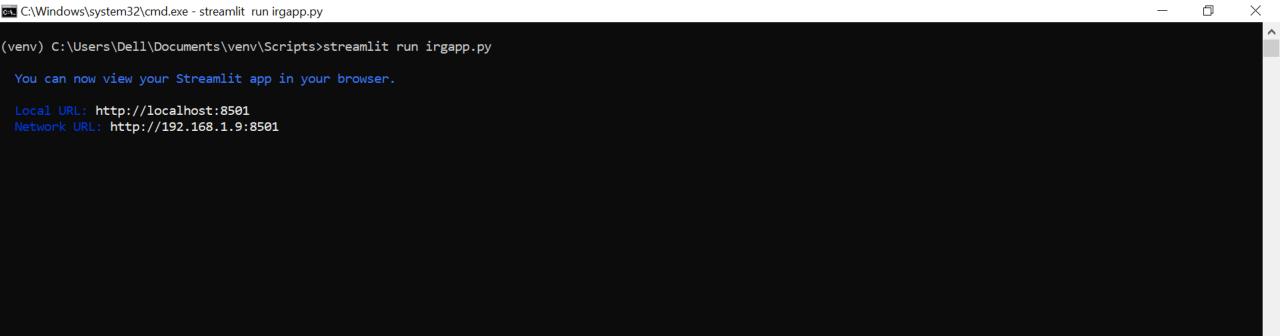
- GITHUB Repositories
- YouTube Data API Documentation
- Streamlit Documentation

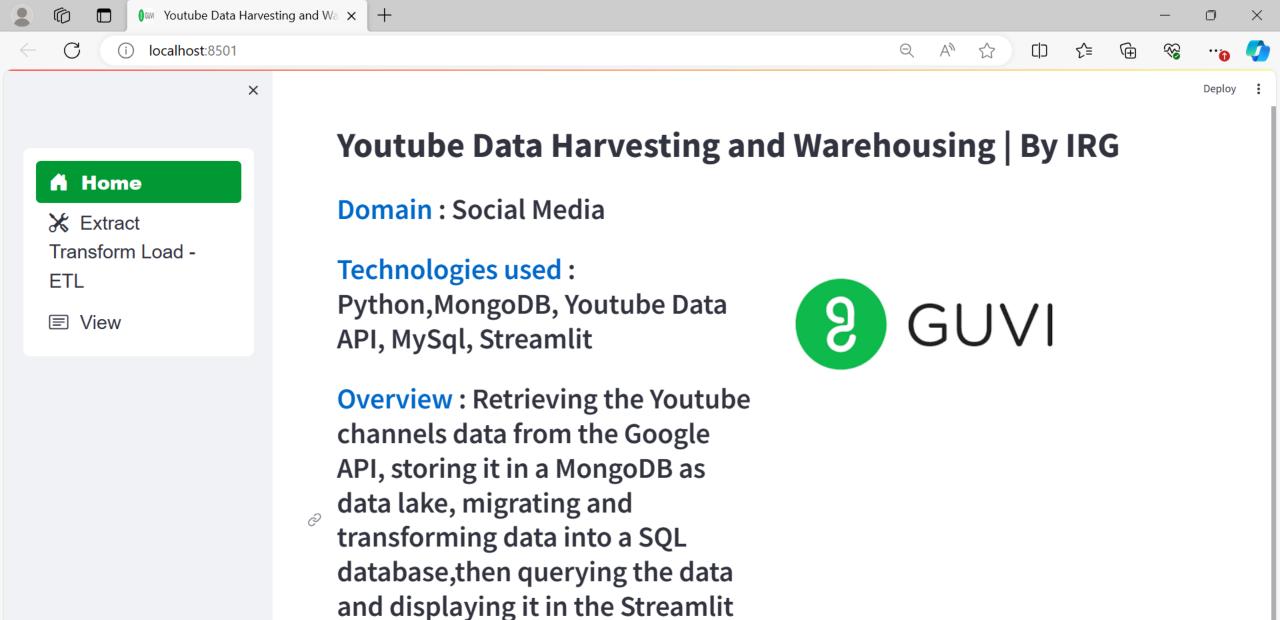
Coding Flow



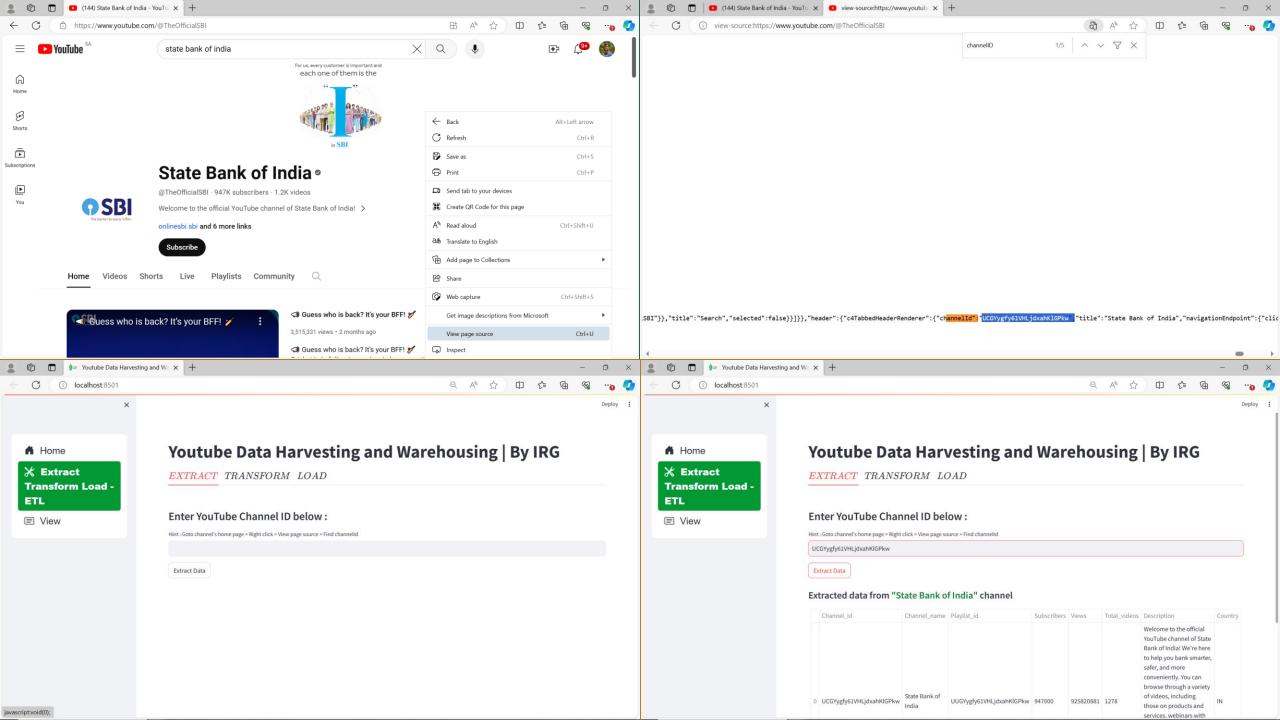
Annexures:
Screenshots of
Results

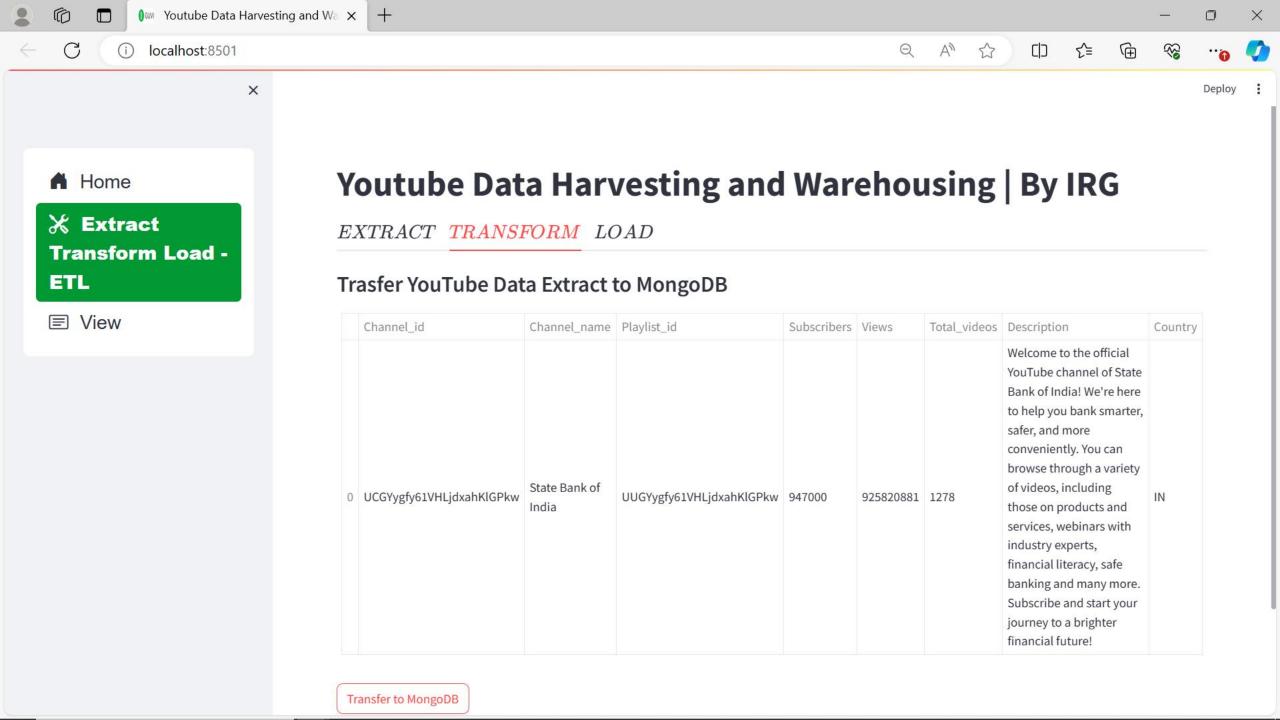


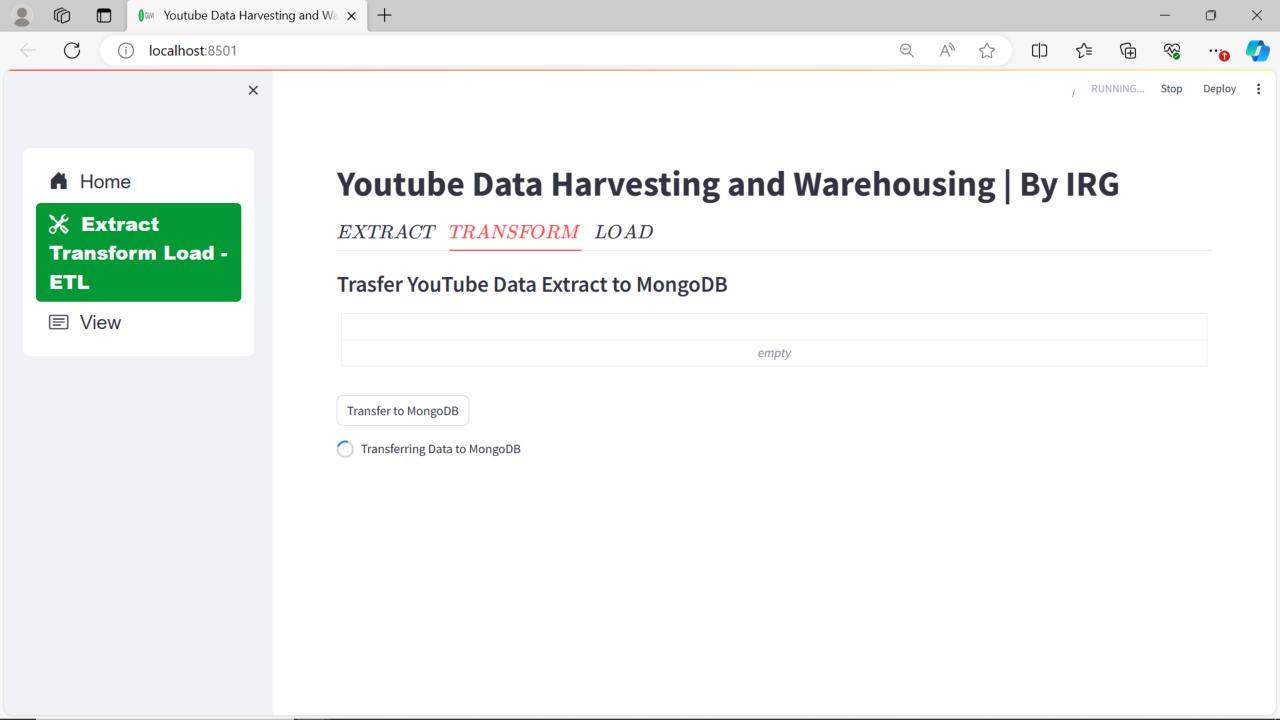


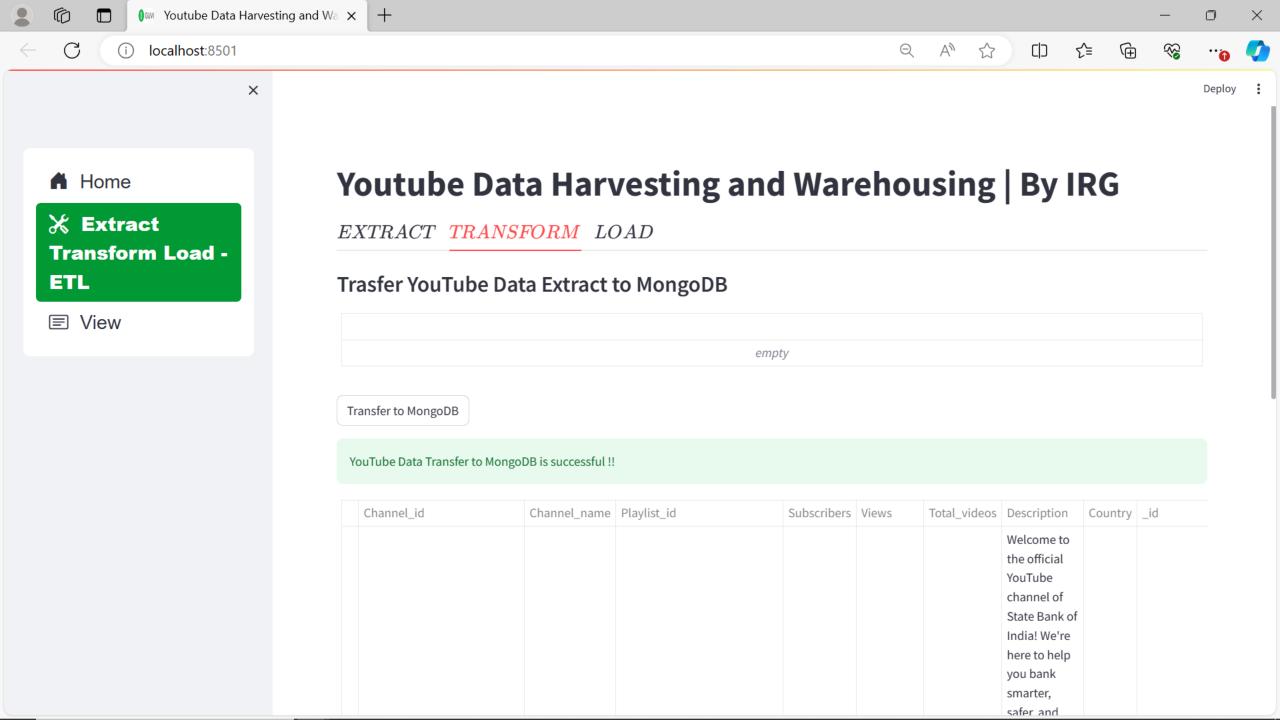


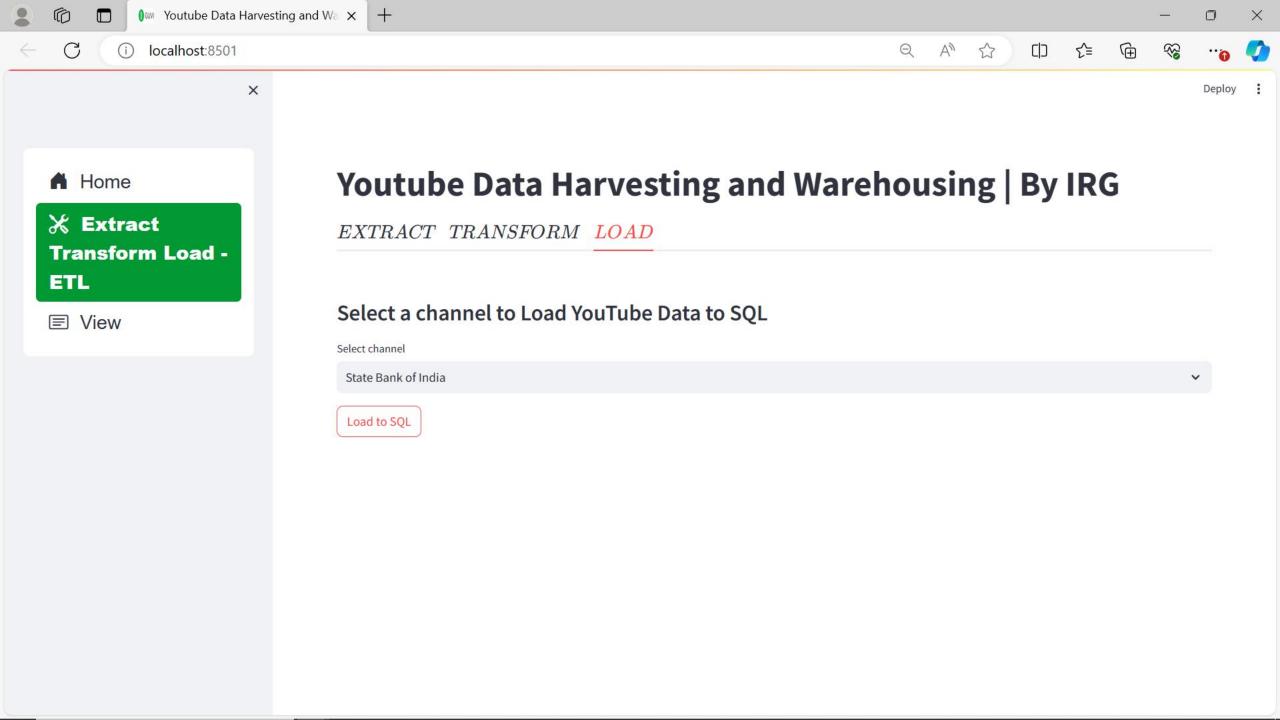
app.

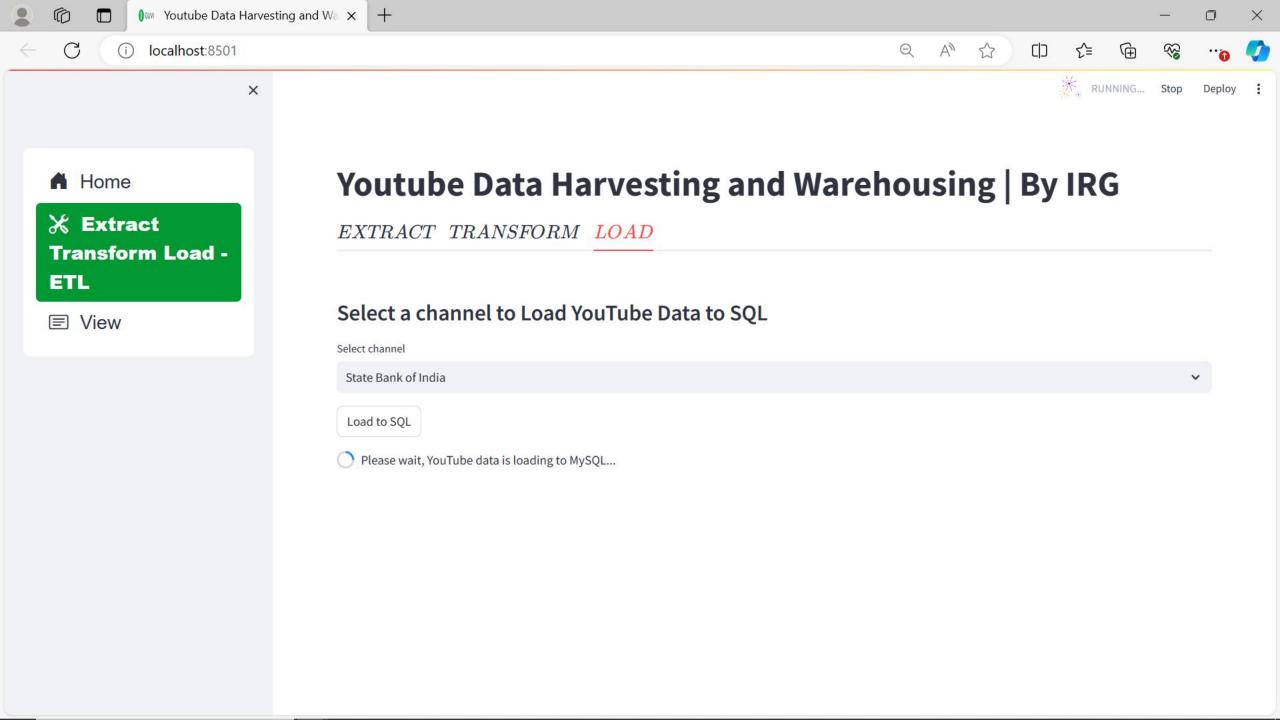


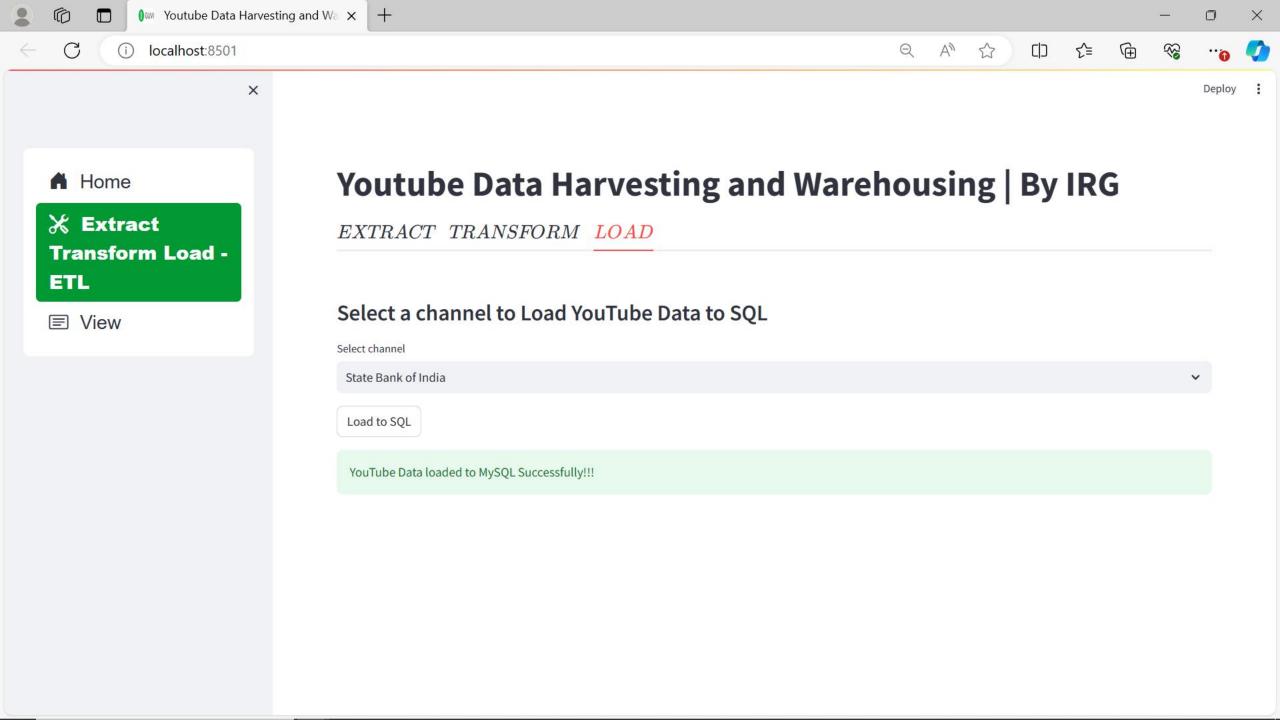


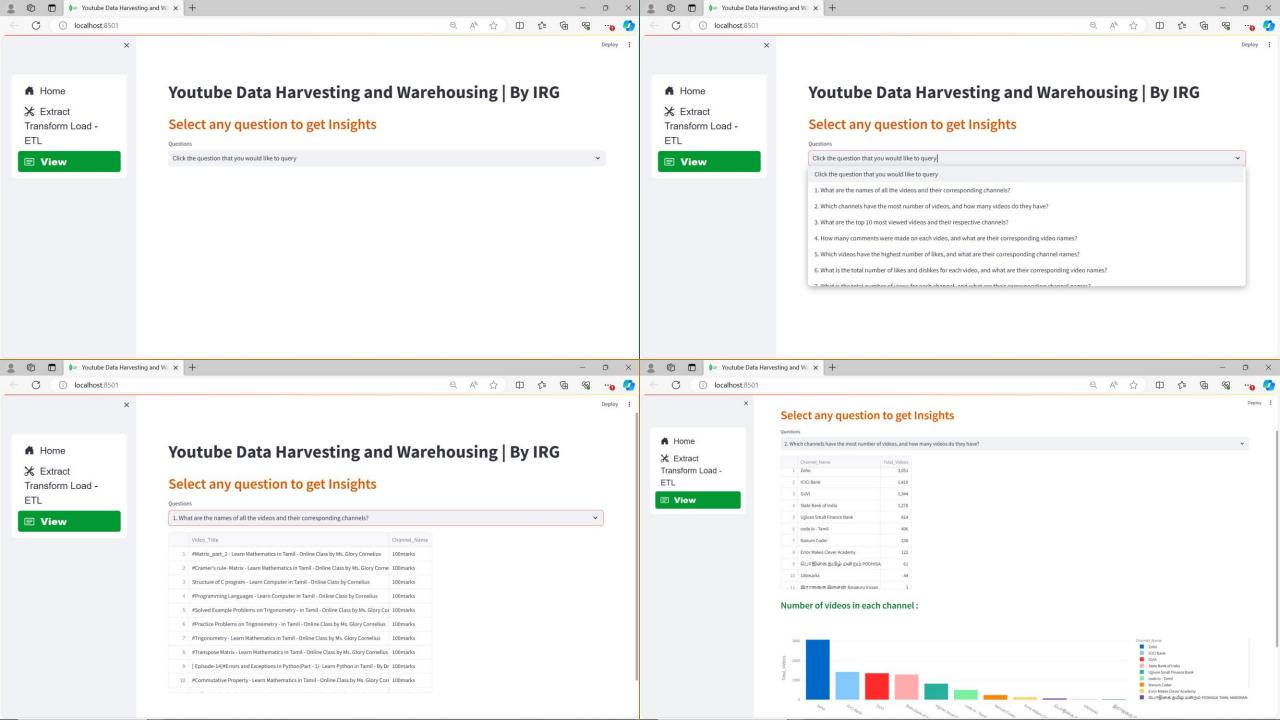


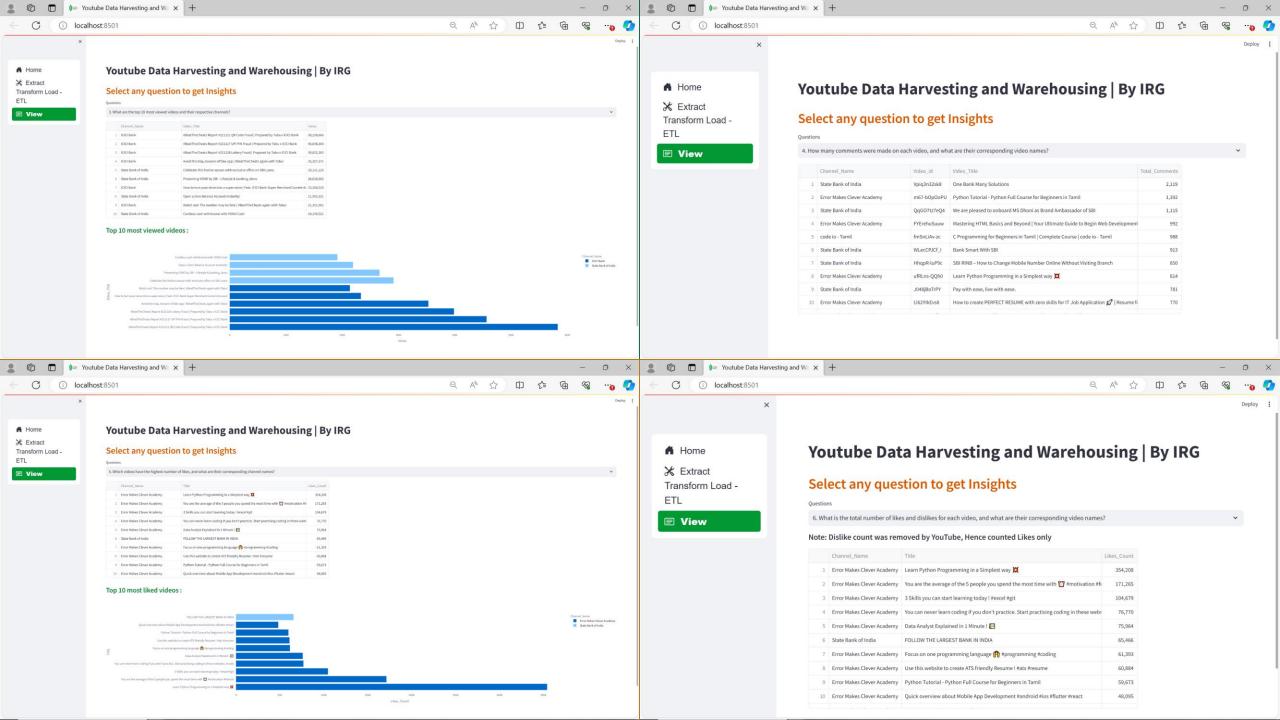


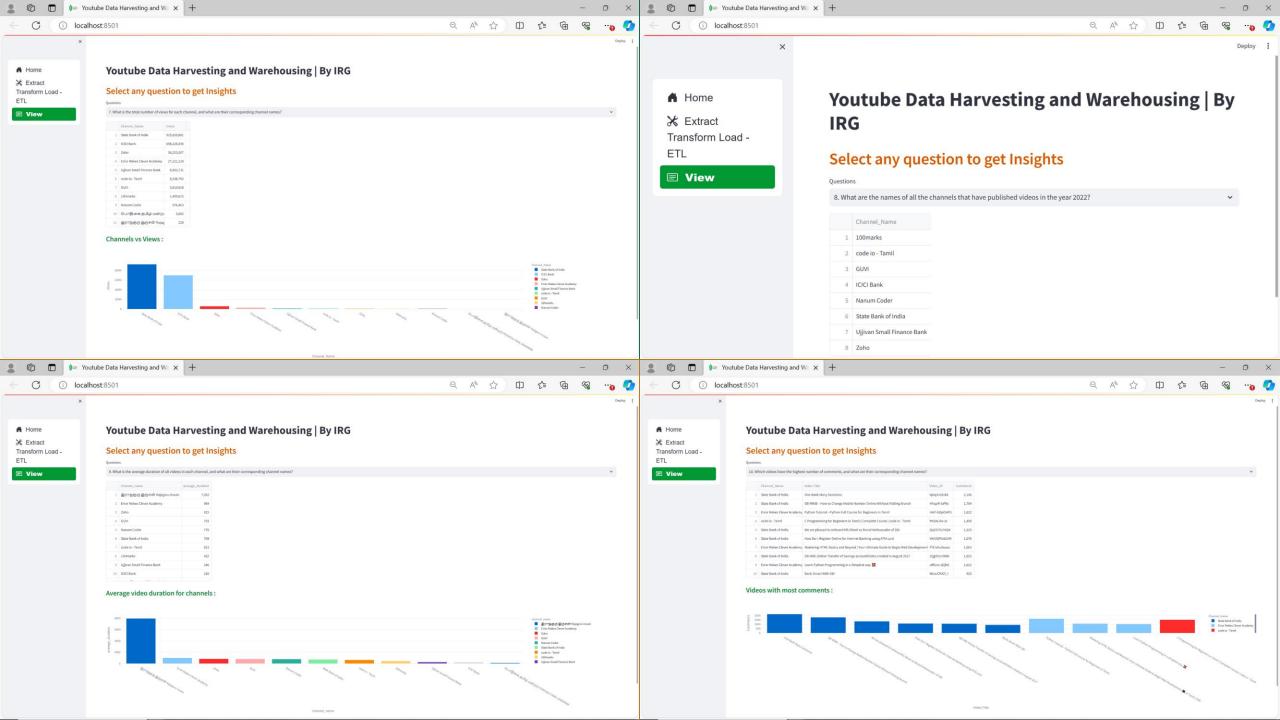












Thank You!!!