This is a Python script that uses the “**streamlit”** library to create a simple web app for scraping Twitter data based on user input. The scraped data is stored in a MongoDB database, and can be downloaded as a CSV or JSON file.

# Workflow

1. The user enters a keyword or hashtag to search for on Twitter, as well as a start and end date for the search range and a maximum number of tweets to scrape.
2. The app calls the **scrape\_twitter\_data** function to scrape Twitter data based on the user's input.
3. The scraped data is stored in a MongoDB database using the **store\_data\_in\_mongodb** function.
4. The scraped data is displayed in a table in the app, and the user has the option to download the data as a CSV or JSON file using the **download\_button** function.

# Execution

1. Make sure that Python 3 is installed on your machine.
2. Install the required libraries using pip install streamlit pandas snscrape pymongo.
3. Start a **MongoDB** server and create a database called "**twitter\_data**".
4. Run the Python script using **streamlit run twitter\_data\_scraper.py**.
5. Access the web app in your browser at the URL displayed in the console.
6. Enter a keyword or hashtag to search for on Twitter, as well as a start and end date for the search range and a maximum number of tweets to scrape.
7. Click the "**Scrape and Download Twitter Data**" button to start the scraping process.
8. Once the scraping is complete, the scraped data will be displayed in a table in the app.
9. Click the "**Download CSV**" or "**Download JSON**" button to download the scraped data in the desired format.