• Network Similarity Search UI

The Network Similarity Search UI was written in the Python Tkinter library. When the UI starts, it loads the following from the initial dataset: its graph, tweet and hashtag IDs, and scores.

The UI (started by running: run_UI.py) can be found on: https://github.com/circlefive05/SimRank-on-Twitter-UI

A 3 minute demo of the user functions and exception handling cases can be found here: https://youtu.be/CHiQ8C7cdtg

User functions:

- Input tweet and search for similar tweets or hashtags
- Input hashtag and search for similar tweets or hashtags (different from the input)
- Input a set of new hashtags, search for new tweets, and return similar tweets or hashtags. Add the newly searched dataset of scores to set of dataset IDs
- Show tweet IDs in current dataset
- Show hashtags in current dataset
- Show current dataset IDs
- Switch datasets by inputting ID

UI displays:

- Tweet IDs and hashtags in current dataset
- If user inputs tweet ID, UI displays both the content of that tweet ID and the similar tweets or hashtags
- Similar hashtags/tweets
- Set of dataset IDs

Exception Handling- Returns error message on UI if user performs:

- If type is integer that is not in current dataset
- If type in hashtag not in current dataset
- If, in switching dataset, input is not a valid dataset number
- If type in hashtag with spaces and don't search 'Gather new tweets'
- If no similar tweets/hashtags found
- If similar tweets/hashtags found but no new tweets/hashtags found