May1618: Graphalyzer

WEEKLY REPORT #7   **Date: 2/22-2/28**

Group number and Name: May1618
Client/Advisor: Ross Hendrickson/Simanta Mitra
Attendees/Role:

- Andrew Bowler - Webmaster
- Al Gomez-Estrada - Communications
- Michael Sgroi - Key Concept Holder
- RJ White - Key Concept Holder

- Taylor Welter - Project Leader
- Simanta Mitra - Advisor
- Ross Hendrickson - Client
- Eric Olson - Client
- Blake Wilson - Client

Past week accomplishments

❖   Added a loading bar to the UI to eliminate most of the unnecessary drawing time from loading in chunks of data. The loading bar displays the progress to the user of the data transmission. Very fast!

❖   Reconfigured Vis options to simplify the graph properties. Previously edges took a long time to draw, now they are simplified and draw much faster.

❖   Made the app scale to fit widescreen displays

❖   Loaded in new test graphs of very large sizes successfully

    ❖ Large "Pokemon" graph and large "superheroes" graph

❖   Demoed the current version of the project to Mitra

❖   Ross made significant progress on the server, and is waiting for a public IP address before sending us all the information

Plan for coming week
- ❖ Work with Workiva on getting the server up and running, deploying the code
- ❖ Add clustering by zoom level to the graph
- ❖ Compress data over the WebSocket stream
- ❖ Add the ability to have multiple filter conditions (AND, OR, etc.)
- ❖ Add the ability to filter properties with regular expressions
- ❖ Finish up testing setup, pending with the server status

Pending issues
- ❖ Always expect delays on the server from Workiva's end. At this moment, the only thing we are waiting on is an IP address.
- ❖ Taylor will be mostly absent the following week due to travel, so Andrew and Mike are picking up his tasks.

Individual contributions

- ❖ Andrew
    - ❖ Added new content to the project website, check it out - **1 hour**
    - ❖ Created a loading bar for the UI - **3 hours**
    - ❖ Simplified some of the Vis graphics for better performance - **½ hour**
    - ❖ Prepared a brief video demo of the project for this week's demo with Mitra - **½ hour**
    - ❖ Meeting with Mitra - **½ hour**
    - ❖ Meeting with client - **½ hour**
    - ❖ Started work on clustering by zoom - **½ hour**
- ❖ Michael
    - ❖ Meeting with Mitra - **½ hour**
    - ❖ Meeting with client - **½ hour**
    - ❖ Set up program to interface with Twitter API to get sample data for graphing (tried integrating Facebook API, but recent security changes make this challenging) - **11 ½ hours**
- ❖ Al
    - ❖ Meeting with Mitra - **½ hour**
    - ❖ Finished test setup - **3 hours**
- ❖ Taylor
    - ❖ Meeting with Mitra - **½ hour**
    - ❖ Meeting with client - **½ hour**

❖ RJ
  ❖ Meeting with Mitra - **½ hour**
  ❖ Meeting with client - **½ hour**
  ❖ Made pokemon data - **3 hour**
  ❖ Refactoring chunking - **4 hour**

Individual hourly contribution

NAME	Hours this week	HOURS cumulative
Andrew	6.5	44
Michael	12.5	44.5
Al	3.5	31
Taylor	1	14
RJ	8	39