SE 492 - sdmay20-54

Enabling Repeatable Graph-based Experimentation and Education

Bi-Weekly Report 5 - Semester 2

3/14-4/1

Client: Ben Holla

Faculty Advisor: Suresh Kothari/Payas

Team Members:

Austin Gregory - Report Manager
Peter Marasco - Communication Coordinator
Blake Mulnix - Trello Manager
Kyle Ferguson - Meeting Coordinator
Matthew Schaffer - Technical Leader

Past Week Accomplishments

- Developed Video Presentation Demo All members
 - Develop powerpoint presentation
 - Record audio describing each aspect of our project
 - o Edited audio clips/presentation slides into video
- Embedded demo server into website Austin/Blake
 - o Embedded graph visualization demo server into the website
 - Used IFrame of Jupyter Kernel to embed the visualization in the html page
- Changed import/output approach for graph for future scaling -Peter/Matthew/Kyle
 - Changed the I/O approach of the CHPG files from XML to JSON/Java Objects to allow for scalability of graphs
 - Adjusted parsing in import function to account for the new graph format

Pending Issues

- Change import/output approach for graph for future scaling (Priority)
 - Change the I/O approach of the CHPG files from XML to JSON/Java Objects to allow for scalability of graphs. Currently will run into some issues with massive graphs
- Add typing to graphs (genetic graphs, statistical data, software)
 - Currently only have software control-flow graphs
- Edges in graph crossing (requires overhaul of algorithm)
 - Add taxi-like edges that avoid graph crossing to more accurately replicate Atlas
- Add further context menu options
 - Brainstorm potential additions
- Save graphs to notebook
 - Save XML files to the notebook rather than importing each time

Individual Contributions

Team Member	Contributions	Bi-Weekly Hours	Total Hours
Austin Gregory	Embedded demo server into website,Developed video presentation, Status Report	12	56
Peter Marasco	Changed I/O approach for graphs, Developed video presentation	13	59
Blake Mulnix	Embedded Demo Server into website, Developed video presentation	12	61
Matthew Schaffer	Changed I/O approach for	13	55

	graphs, Developed video presentation		
Kyle Ferguson	Changed I/O approach for graphs, Developed video presentation	13	55

Plans for Next Week

- Prepare For Final Presentation All members
 - Delegate responsibilities
 - o Develop powerpoint presentation
 - Rehearse presentation
- Final Code Cleanup All Members
 - Final Code Review
 - Add/Polish Documentation
 - o Prepare for "shipment"