

SE 491 - sdmay20-54

Enabling Repeatable Graph-based Experimentation and Education

Week 6 Report

12/1-12/8

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

- Prepare For Final Presentation - All members
 - Designed Presentation Slides
 - Rehearsed Presentation
- Complete Final Design Document - All members
 - Fixed issues with design document based on feedback
 - Added missing sections
 - Included necessary diagrams and charts
 - General polishing

Pending Issues

- Change import/output approach for graph for future scaling
- Add typing to graphs (genetic graphs, statistical data, software)
- Edges in graph crossing (requires overhaul of algorithm)

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Austin Gregory	Investigated Alternative Graph Algorithms/Status Report Creation/Preparation for Meeting with Client	8	37
Peter Marasco	Even More Menu Options Added /Preparation for Meeting with Client	8	42
Blake Mulnix	Investigated IO Code for Graph Import/Export Overhaul/Preparation for Meeting with Client	8	42
Matthew Schaffer	Improved Efficiency of Graph Generation/Preparation for Meeting with Client	8	37
Kyle Ferguson	Investigated Graph Typing/Preparation for Meeting with Client	8	37

Plans for Next Semester

- Even More Changes to Menu Options for nodes - Peter
 - Allow on-click menu options for nodes to provide additional information/utility
- Overhaul Graph Algorithm - Austin
 - Formulate/Implement Graph Algorithm that Minimizes Edge Crossing

- Keep Graph Typing in mind
- Investigate Additional Efficiency Changes - Matthew
 - Analyze code for any potential increases in code efficiency
- Overhaul Graph Import/Export Approach - Blake
 - Begin an overhaul of graph import/export for future scalability
- Begin Implementation of Graph Typing - Kyle
 - Begin coding framework for graph typing