SE 491 WEEKLY REPORT 11 Date: 11/15/16-11/27/16

Group number: 01

Visualization of Earth Modeling System (Project 1)

Prof. Johnny Wong (Advisor) & Prof. Chaoqun Lu (Client)

Team Members/Role:

Kellen Johnson – Team Communication Leader

Anish Kunduru – Team Leader

Julio Salinas – Team Concept Holder

Eli Devine – Team Webmaster

o **Weekly Summary**

During the last couple of weeks, our team has not only been able to finish version 2 of our Project Plan, but we were able to finalize our demo. We have successfully implemented an ArcGIS version of the 2D images, and will be able to show this to the advisor and client come Wednesday (11/30). We will now be able to step forward with full automation of this process.

You can see what we've done so far at these links (website to be updated shortly):

- Original style, no transparency, points based: http://proj-491-01.cs.iastate.edu/Demo4/EarthModelingTest4.html
- Original style, no transparency, layers based: http://proj-491-01.cs.iastate.edu/Demo4/EarthModelingTest5.html
- Original style, 70% transparency, layers based: http://proj-491-01.cs.iastate.edu/Demo4/EarthModelingTest0.html
- Topographic style, 60% transparency, layers based: http://proj-491-01.cs.iastate.edu/Demo4/EarthModelingTest-1.html

- o **Past week accomplishments**
  - Kellen Johnson: Collaboration with Josh Obrecht in installation of ArcGIS for Desktop. Helped collaborate Version 2 of the Project Plan. Assisted Anish in implementation of our final demo.
  - Anish Kunduru:
    - ❖ Wrapped up project plan. (1)
    - ❖ Worked on demo with Kellen (get GIS to work w/ Dr. Lu's data). (7)
    - ❖ Worked on demo alone (smooth out layers). (8)
  - Eli Devine: Updated team webpage. Updated a portion of project plan version 2.
  - Julio Salinas: Updated project plan based on input given by teammates, did some research on our new implementation.

- o **Pending issues**
  - Anish Kunduru: I'd like to test the ASCII data on a geodatabase to see if that'll ease server load and speed up load times, but I know Kellen and I are both too busy this week. We're currently parsing ASCII to CSV to Excel to ArcGIS tables. The system as currently implemented works well and looks good, but I have some concerns about how well it is going to scale.

- o **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Kellen Johnson	Installed ArcGIS for Desktop. Collaboration on Project Plan. Assistance in creating final demo.	10	76
Anish Kunduru	See above. Also sent emails to ensure everyone stayed updated along the way.	16	75
Eli Devine	Update Webpage and Project Plan V2	6	37
Julio Salinas	Revised Project Plan. Independent Experimentation.	12	42

- o **Comments and extended discussion**
    - Anish Kunduru: Next steps include: nail down requirements, speed testing on prototype, and automation. Automation will take a while (most of next semster), and I'd like to do it right (proper documentation, logging, etc.) and not hack-and-slash, so that we can leave the client with code someone can easily expand on in the future. It is also imperative that we establish concrete expectations this week so that we don't spend unnecessary time automating something that has ever-changing requirements.

- o **Plan for coming week**
    - Kellen Johnson: Give extended contact info to Eli for website update. Continue to work on newer version of documents, and begin to finalize project presentation which will take place during Dead Week. Will also be able to meet with client at demo and discuss any necessary changes.
    - Anish Kunduru: Nail down client's requirements so that we can jump head on into automation. Give full contact info to Eli.
    - Eli Devine: Finish webpage design by adding full contact, responsibilities and team email, collaborate with team for final demo, work on final presentation.
    - Julio Salinas: Collaborate with team on final demo. Give full contact info to Eli.

- o **Summary of weekly advisor meeting**

No meeting this week, meeting with our advisor will be on 11/30, on which we will show our final demo before our Presentation.