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**

We've moved into automation and are currently utilizing ArcPy to import parsed data into a geodatabase. We've learned of a new tool released by ESRI that might allow us to take a shot at client-side rendering, so we've put a halt on expanding our existing map server until we figure out if this new system will better suit the client's needs. We will determine which way to proceed by the biweekly meeting on Friday.

o **Past week accomplishments**
- Kellen Johnson: Automated transfer of CSV's to Table and Table to GeoDatabase using ArcPy. Assisted team in setting up SQL Server on the Server for an attempt at feature Layers.
- Anish Kunduru: Fleshed out server-side Java to handle Python scripts. Not much left to do with server-side Java.
- Eli Devine: Look into arcpy mapping for creating automation.

- Julio Salinas: Assisted team in setting SQL Server and looked into arcpy for automating purposes.

- o **Pending issues**
  - Anish Kunduru: Try our hand at client-side rendering again, this time using a feature service and an SQL server. I need to install ArcPro and related dependencies. We plan to have an extended meeting on Thursday to figure out the feature service and JavaScript to get this working.

- o **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Kellen Johnson	Arcpy Programming. SQL Server setup.	7	90
Anish Kunduru	SQL setup with team, wrapped up Java daemon.	7	98
Eli Devine		1 ½	41
Julio Salinas	SQL Server set up, attempt to automate some scripts.	5	48

- o **Comments and extended discussion**
  - Kellen Johnson: Nothing at this time. Turns out arcpy isn't horrible to use, the documentation is just a bit rough to read on the website.
  - Anish Kunduru: Team is ready to wrap up automation if needed. We will first try out the feature service, and if that does not pan out, will wrap up automation with map services. As it is a newer system, automation on that uses a different set of Python scripts, for which there doesn't seem to be any documentation…

- o **Plan for coming week**
  - Kellen Johnson: Collaborate with Josh Obrecht in an attempt to get ArcGIS Pro Software for Using Feature Layers. Attempt to Automate rest of Arcpy module for complete automation as backup plan to new Feature Layer Idea. Assist team with Feature Layer development Code.
  - Anish Kunduru: Get feature server working.

- Eli Devine: Continue to work on maps, update website.
- Julio Salinas: Continue to work with team on automation and going back to feature layers.

o **<u>Summary of weekly advisor meeting</u>**

No Meeting this week.