**Semester Project, Spring, 2017**

**Your Mission:**

1. There will be more requirements than you can satisfy, but you want to document all of the ones that you can identify. Both functional, non-functional, user and system.
2. Consider how you are going to keep track of requirements?
   1. Will there be a hierarchy?
   2. How will you validate with Stakeholders?
   3. What is a sufficient design to justify your efforts this semester.

**Your Design Goal:** Build a new version of a GitHub performance metrics project. It is an active project that you will be invited to query stakeholders in in Slack to secure your requirements for the project.

The details of the requirements assignment will be posted Wednesday and are due on March 14th.

Here is the project we are working with:

<https://github.com/OSSHealth/ghdata/tree/dev>

Requirements will be posted in a GitHub Wiki.

Technology stack will be Python and Flask. To support your development as Python Programmers and even the “playing field” on your teams, you will be given access to a data science course in Python. You are expected to complete the exercises identified for you by the end of the semester. Faster is better.

In class today, you will:

**Today’s Tasks:**

1. (45 Minutes) Identify the categories of requirements that need to be captured in your requirements document. This would be a top level document where you put the major types of requirements, and list a few examples of those requirements. (For Example, “Project Commits, Project Issues, Issues over time, etc. ”)
2. (30 Minutes) Tech Setup
   1. Identify the person who will be your “Build Meister”. This person will be pulling in all the merged updates on GitHub and compiling them. People who commit code that does not work should face consequences with the team. :)
   2. Name your GitHub Repo and Get Dr. Goggins to create it for you.
   3. Ask any questions that you want to about your deployment, but make sure you can deploy some simple code from your GitHub repo to some kind of server environment.