CS4320-Individual Requirements Assignment

* Introduction
  + This tool uses URLs provided by users to create a repository of data to analyze and report. The users can then see metrics and graphics to monitor the use of their system and code. They can use this information to track their growth or progress.
* Software product overview
  + This system will likely need many applications to be able to pull the data, create a repository, analyze the data, and show resultant data.
  + This means that the system will likely need a database, a URL, software to analyze the data, and something that customizes the UI.
* System Use, including an actor survey
  + The system follows these steps in use:

1. The user/organization links their URL with the Metric Tool.

2. The Metric Tool pulls data into the repository.

3. The Metric Tool runs analyses and tests.

4. The application shows the user the resultant data in the form of useful graphs/charts.

* + Actors include an organization/company, users, and outside organizations.
* System Requirements (including 1 use case, a system functional specification, and a list of non-functional requirements)
  + Use Case: An organization wants to track usage of an open-source application. They can use the information they get back to measure growth, success, changes, and make decisions on how or if they continue using the application.
  + System Functional Specification: Database to store pulled data from open-source application.
  + Non-Functional Requirements:
    - Graphs/charts are displayed in a “nice” format.
    - Metric Tool site is user friendly.
    - Organizations can restrict the sharing of their data.
* Design Constraints (at least 5)
  + Budget
  + Device (computer/phone)
  + Security
  + Latency
  + Functionality
  + Appearance
* Purchased Components (at least 1)
  + URL
  + Program licensing
* Interfaces (at least 1)
  + URL