Xavier Yelder/Jackson Urrutia

Internet Systems Development

Dr. Matt Germonprez

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System Description and Development Environment

The purpose of the application Jackson and I are developing is to help gather data to support GH Health and Sustainability. We have also identified what development environment and systems will be associated with the application.

For the Community Health and Sustainability application Jackson and I will create, we decided to focus on obtaining data from GHTorrent about the Github public event timeline. Specifically, we are going to obtain data pertaining to issues stored on GHTorrent. The issues our application will focus on gathering are the total number of issues, the number of open issues, and the number of open issues with no comments from a maintainer. The decision for our application to focus on gathering the previously mentioned issues was made in an effort to provide useful statistics about an aggregate of issues on GitHub that are not being addressed by maintainers. Our application will also attempt to determine whether an issue is actually an issue, and not a TODO item. After discussing the function of the application, we have established the development environment and systems.

A task for us was to find the best suited development environment and systems to incorporate into our application. After doing research on various technologies, we were able to reach a decision about the environment we will be developing the application in and the systems which will support its functionality. The development environment we will be using is a unix/linux environment. Also we will be using the MySQL relational database management system to store data that is extracted from GHTorrent. The application will be hosted on a Ubuntu server instance provided by Anvil. We will be using Python to handle the data on the backend and we will return a CSV file that will contain the data.