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Assignment 9

CS4320

Introduction

-CHAOSS is a community that is developing metrics, methodologies, and software for expressing open source project health and sustainability. They seek to increase transparency and actionability so that shareholders and other relevant parties can make informed decisions about the data.

Software Project Overview

-CHAOSS is responsible for a variety of softwares including Augur, metrics, and GrimoireLab. Augur is a Flask Web Application, Python Library and REST Server that presents metrics on open source software development project health and sustainability. GrimoireLab is a CHAOSS toolset for software development analytics. It includes a coordinated set of tools to retrieve data from systems used to support software development (repositories), store it in databases, enrich it by computing relevant metrics, and making it easy to run analytics and visualizations on it. CHAOSS Metrics repository captures metrics for assessing open source community health and sustainability. Such metrics are aimed at understanding project diversity & inclusion, growth-maturity-decline, risk, and value.

System Use

-The system use is that it allows for open and easy communication between programmers and shareholders to promote clear communication with regards to the data by providing a simple open source platform to work on.

System Requirements

-For CHAOSS and Augur to function, your system must have access to the internet and you must be able to login when your information is entered correctly. Some nonfunctional requirements that can be measured are that you must be able to branch and merge your workpieces in under a second (internet speed must be usable).

Design Constraints

-The software must run smoothly without bugs or fatal errors.

-2 or more people must be able to work on a project simultaneously.

-Communications between the programmers and project leaders is not impeded by the site.

-The software is simple and easy to navigate and understand (user friendly)

-The software is more enjoyable and efficient than alternatives on the market.

Purchased Components

-CHAOSS is an open source nonprofit group that instead of charging for their software, they instead ask for donations on their site.

Interfaces

-The donation interface has a hotbar that allows access to applications, mentorship, and a login screen. Below that it gives a brief overview on CHAOSS as a whole along with its current backers and its account balance.