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**Individual Requirements Analysis**

## **Introduction**

This document will attempt to outline CHAOSS and its specifications. CHAOSS is a Linux Foundation project that is focused on creating analytics and metrics to express open source project health and sustainability. With this information, they seek to allow stakeholders to make more informed decisions about open source project engagements by improving the transparency of open source project health and sustainability. The project aims to produce integrated open source software for analyzing software community development and build reproducible project health reports and containers.

## **Software Product Overview**

The product in discussion is Augur. Augur is a software that allows users to view GitHub analytics from their repositories. Users can view an array of information about repository usage and contributors as well as overall contributions. It is a web software that is accessed through the browser, making it accessible and easy to use.

## **System Use**

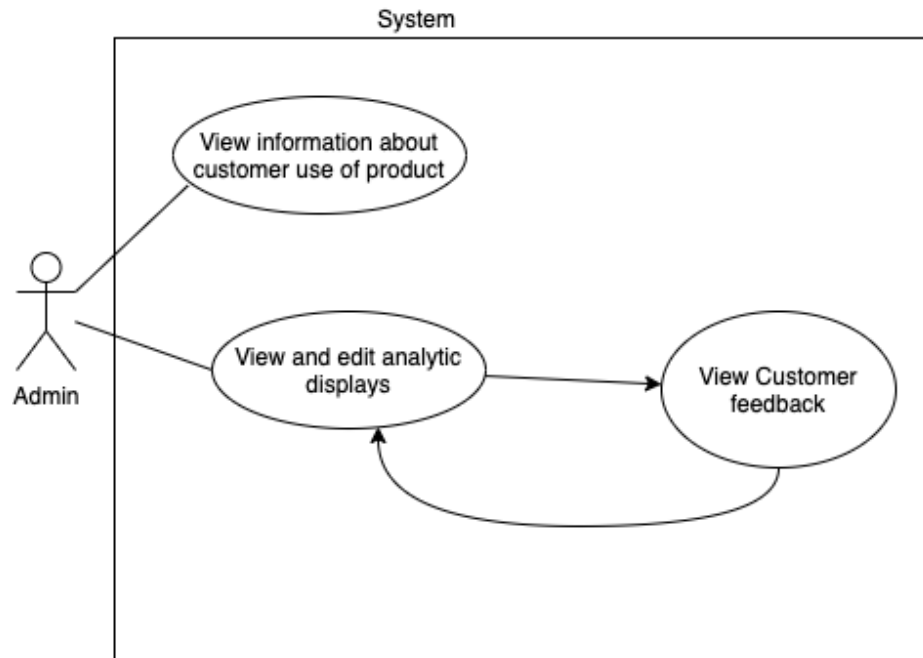
### **Customer:**

The software for the user is as described above. Users can utilize the software for reporting on GitHub repositories that they are involved with. They will have the ability to find and analyze repositories for their own purposes. The majority of interactions with the software will come from these users.

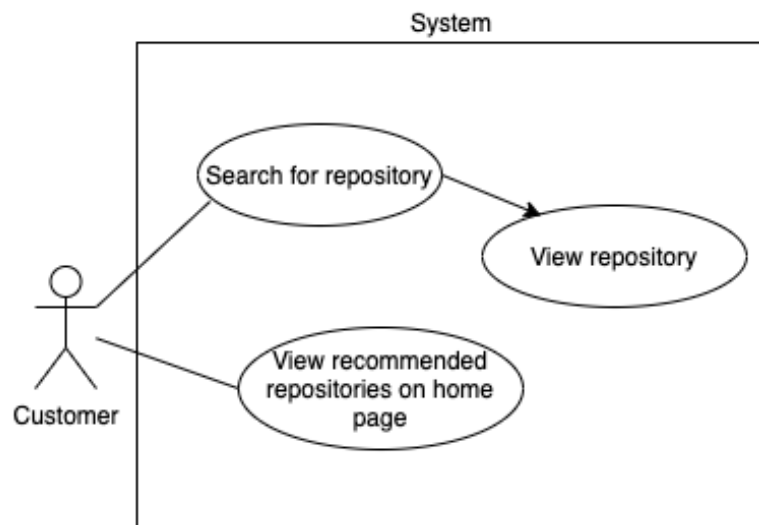
### **Admin:**

The admin will use the software the same way an external user will. They can access repositories and analyze them. However, the admin will also have additional power behind the scenes. They will have the ability to alter how the data is displayed and will be a part of new development.

## System Requirements



The above use case diagram represents some functions of an admin user. This user can view information about how customers are using the product and have the ability to make changes to the way repository analytics are displayed to customers.



This use case diagram represents the functions of a customer user. The customer can search for and view repositories. They can also view the recommended repositories on the homepage of Augur.

## **System Functional Specification**

1. The software will work on all web browsers. This includes mobile web browsing.
2. User interface including a login page for all users.

## **Non-Functional Requirements**

1. Database
2. Should be capable of handling large amounts of traffic
3. Servers
4. Installed software including PostgreSQL 10 or higher.

## **Design Constraints**

- Cost
- Relies on a PostgreSQL database
- Potentially handling large numbers of users
- Must work on a number of web browsers without error
- Time required for design.

## **Purchased Components**

- Server space
- Computers for Employees

## **Interfaces**

- Customer interface
- Admin interface
  - The admin interface will look very similar to the user interface but will offer additional functionality.