Assignment 9: Individual Requirments Analysis

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1. Introduction:

This document's purpose is to create a requirement analysis of the Open Source Software Health and Sustainability Metrics Tool. This document includes an overview of this product, system use, system requirements, design constraints, purchased components, and interfaces. Which the areas that can show the requirements of this open-source tool.

2. Software product overview:

Augur is a Software building a human-centered open source software health metrics tool, in which all the users can see the data in a visualization. Also, this product enables comparisons for users. And all the visualization can be download by the users. Augur is collaborations with the CHAOSS project.
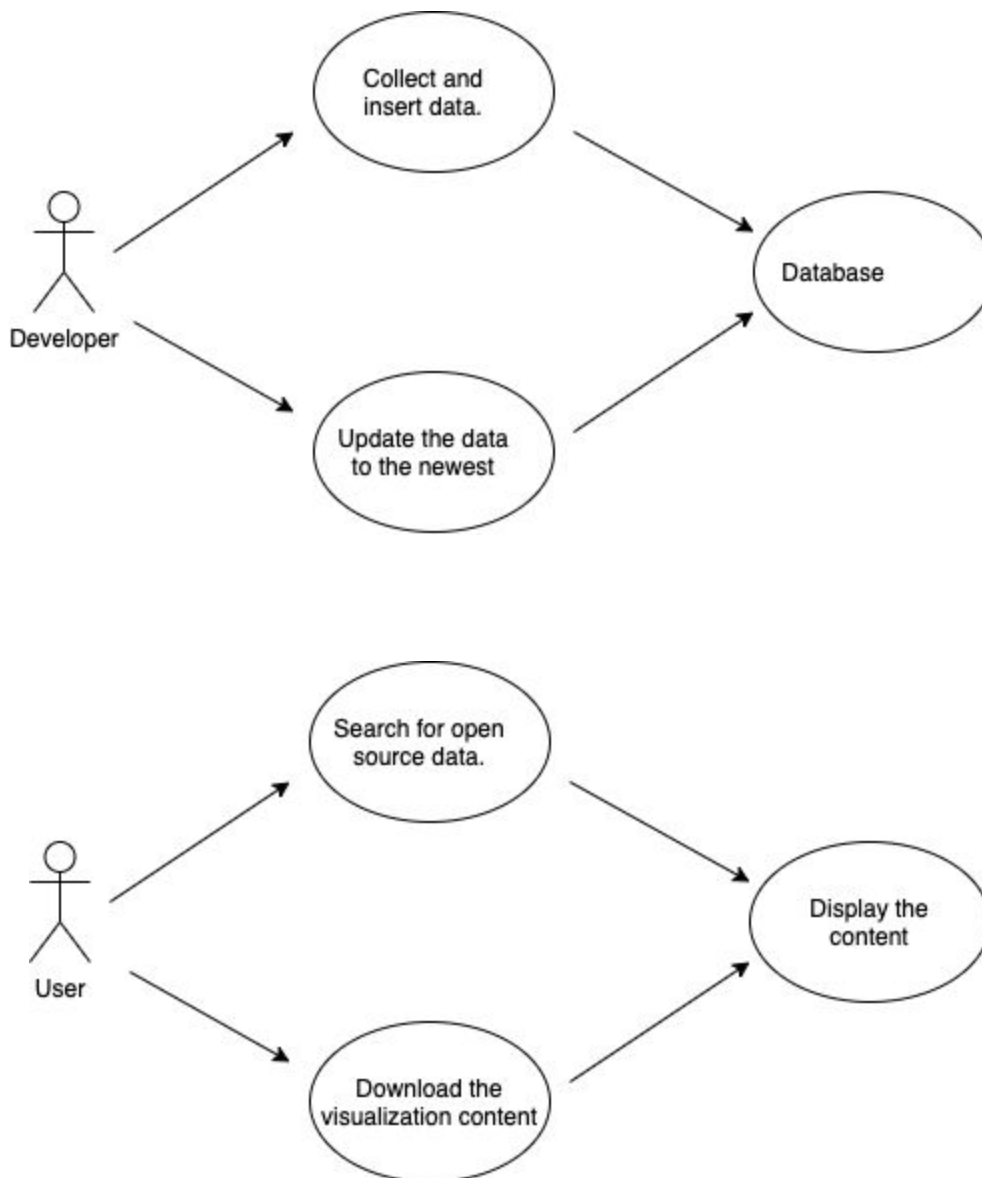
3. System use: actor survey

Developers:

Developers are responsible for collecting and inserting data for data modeling. They also responsible for making sure to keep all the data up on time, and make the data sources to REST API. For more, they are also maintained and make the project visually.

Users:

Users are very important. They are responsible for the user experience. They can check if there are errors in the application. Also, they can use all the functions of this application.

4. System Requirements:

System functional specification:

1. It needs to be work on all web browsers and operating systems.

2. It needs to have a search box and download button for users.

3. It needs to show the content of the user's needs.

Non-Functional requirements:

1. It should handle a lot of amount of traffic.

2. It should handle a lot of data really quickly.

3. It should not have errors in searching and downloading.

5. Design constraints:

1. It should be run on every web browser, like chrome, firefox, safari….

2. It need work on all operating system like MacOS, Windows Linux.

3. It needs to work on computer, mobile, and tablet devices.

4. Use Python, Flask, MySQL… for the backend.

5. Use VueJS, Vega-lite… for frontend.

6. Purchased components:

Computer devices.

7. Interfaces :

User interface:

Interface in connection with the database server, and showing the database in the web browser.