Software Requirements Specification

Project: Augur

Chris Bigge

1 Introduction

Augur is a software tool to measure and record open source software health metrics. The purpose of Augur can be separated into four human centered data science strategies. The four key strategies are enabling comparisons, making time a fundamental dimension in all metrics, all data driven visualizations should be exportable as a csv, and making all the visualizations downloadable as a svg file.

2 Software Product Overview

The software is an open source web application that can be accessed at augur.osshealth.io. The software is a dashboard containing three different pages: insights, repos, and groups. The software is written with a Vuejs and Bootstrap frontend and a Node webpack backend.

3 System Use

Augur has three separate pages: Insights, Repos, and Groups. The default view when you arrive at the website is the Groups page. This page has a table listing all the added repo groups, displaying identifying information like the name, description, website, and type. Upon clicking one of the repo groups, it brings you to the Repos page. The Repos page displays another table with Repos in the group you selected similar to the first table. When you click a repo on this table, you have the option to view either the Overview or Risk Metrics. Each of these pages contains metric and analytics graphs and give you the option to compare the repo with another. The insights page also contains various metrics and analytics graphs

4 System Requirements

- Server running Nodejs
- Package manager for web managing libraries
- Version control system
- Easy UI for the metrics and analytics dashboard

5 Design Constraints

The API that augur uses needs to be scalable and failure tolerant. Since the web application’s frontend and user interface relies on the API calls to the backend.

6 Purchased Components

Since augur is free and open source software, it also uses free and open source software libraries. It's only cost is hosting in production, which is currently being done through Amazon Web Services.

7 Interfaces

The user interface is a web app accessed through a browser at augur.osshealth.io. Its frontend is written in Vuejs and it uses RESTful APIs to talk to the backend for the data it displays.