

Final Project Design Document

Group Bulldogs - Sprint 3

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API Endpoint

<http://23.20.185.39:5000/api/unstable>

GitHub Repositories

<https://github.com/TechnicFyre/augur-bulldogs>

https://github.com/TechnicFyre/augur_view-bulldogs

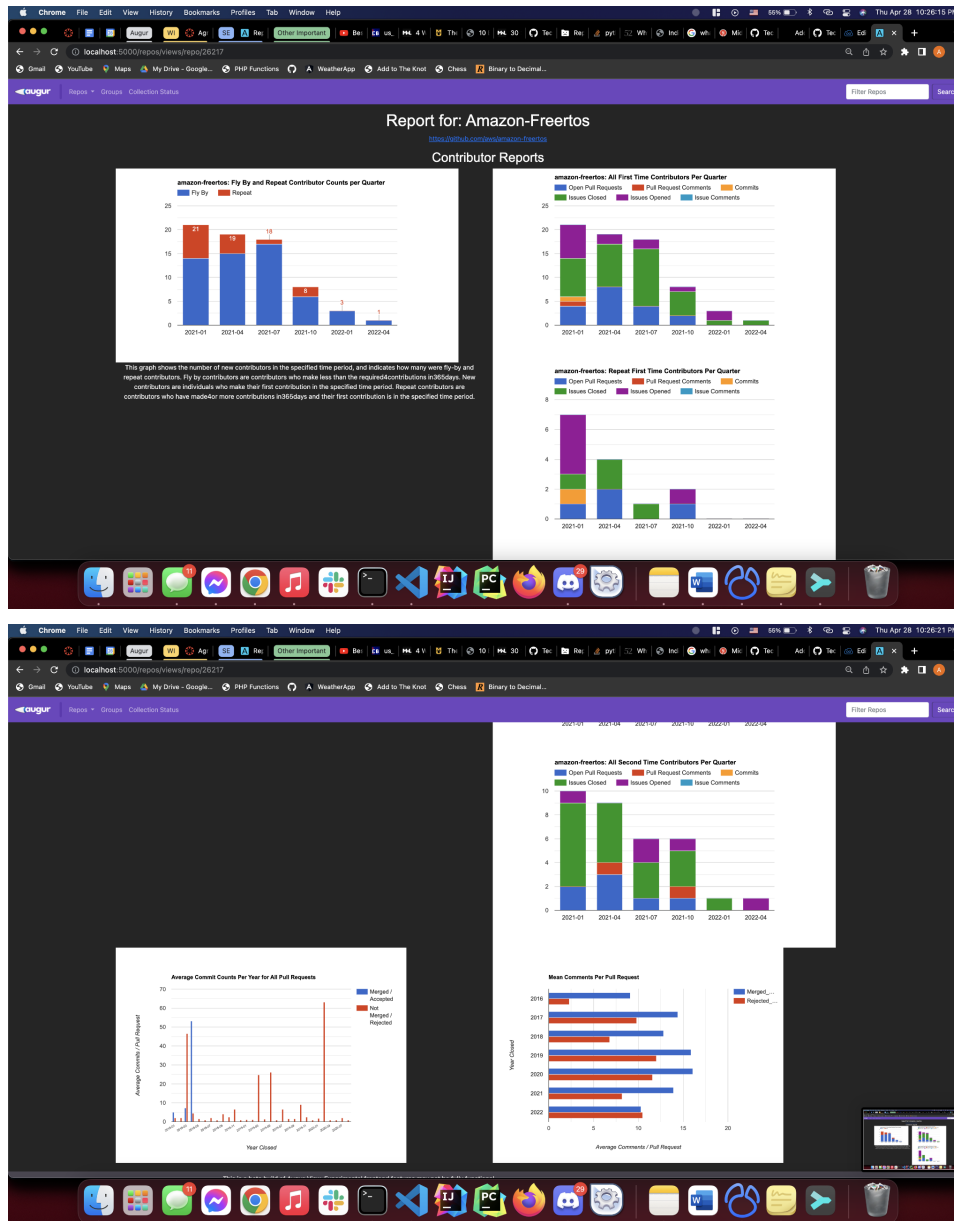
General Design Concept

Our team is wanting to rework the current augur-view chart display so that it's more readable and interactive. In this design document we display a mock-up of the overall design for the website layout. Additionally, as we progress through the project, we've started work and finished several charts and added them to the website. These charts are not just PNG images, but instead interactive elements on the web page created with the GoogleCharts API. To accomplish this, we need to change what sort of data is returned from Augur's API.

Summary of Changes/Feature Developments

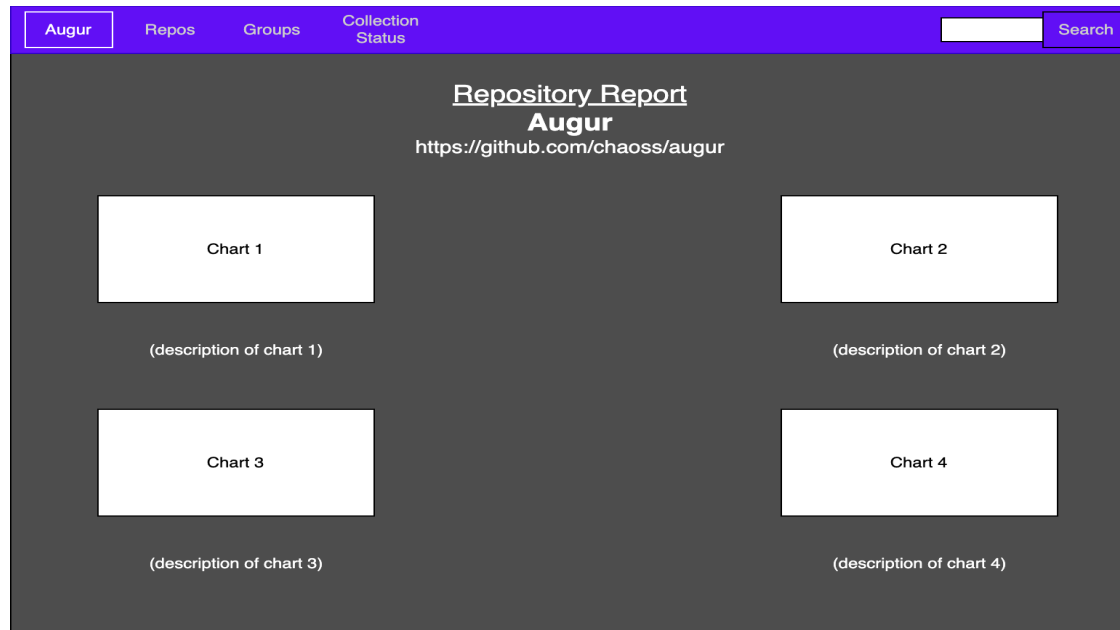
1. Convert visualization endpoints so they can return data
2. Cache the data to speed up loading times (see chart below)
3. Create Google Charts using data returned by the API
4. Build well designed UI and UX experience

Current Project State



The webpage currently includes 6 Google chart redesigns of previous Augur-View charts, with more charts being implemented going forward. Hover over information is available for the charts, and we've begun implementing captions for each charts. Certain charts function on their own, but can't be integrated into the webpage without breaking.

Website Diagram–The end product concept



Requirements

Component	Priority	Requirement Name	Requirement Description
Usability	1	Text-Image Division	On the webpage, divide the text information generated from the graph images generated
Usability	3	Export Data	Allowing the user to export data to file formats (csv / pdf / docx)
Usability	4	Caching	Implement a better caching system to allow Augur-View to function faster
Interactivity	2	Details on Hover	Display details for different parts of the graph on hover, rather than displaying details in a fixed position on the graph (this causes the text to sometime overlap when there is small data)
Interactivity	3	Pagination	Alternatively (and more easily) paginate the results with hardcoded cutoffs and allow the user to click through
Interactivity	4	Alternate Formats	Offering alternate formats for certain charts, i.e., bar graph, pie chart
Interactivity	5	Sliders	Sliders to set limits on what data should be shown, for example a cutoff for repos with 95% completeness on pull requests
Readability	1	Page Layout	Ensuring the page is readable by the users and that the layout is sensible
Readability	1	Separate Graphs	Each graph is its own distinct element
Readability	3	Data Readability	Choose ideal graph type to display the data (or with alternate formats, the default format)

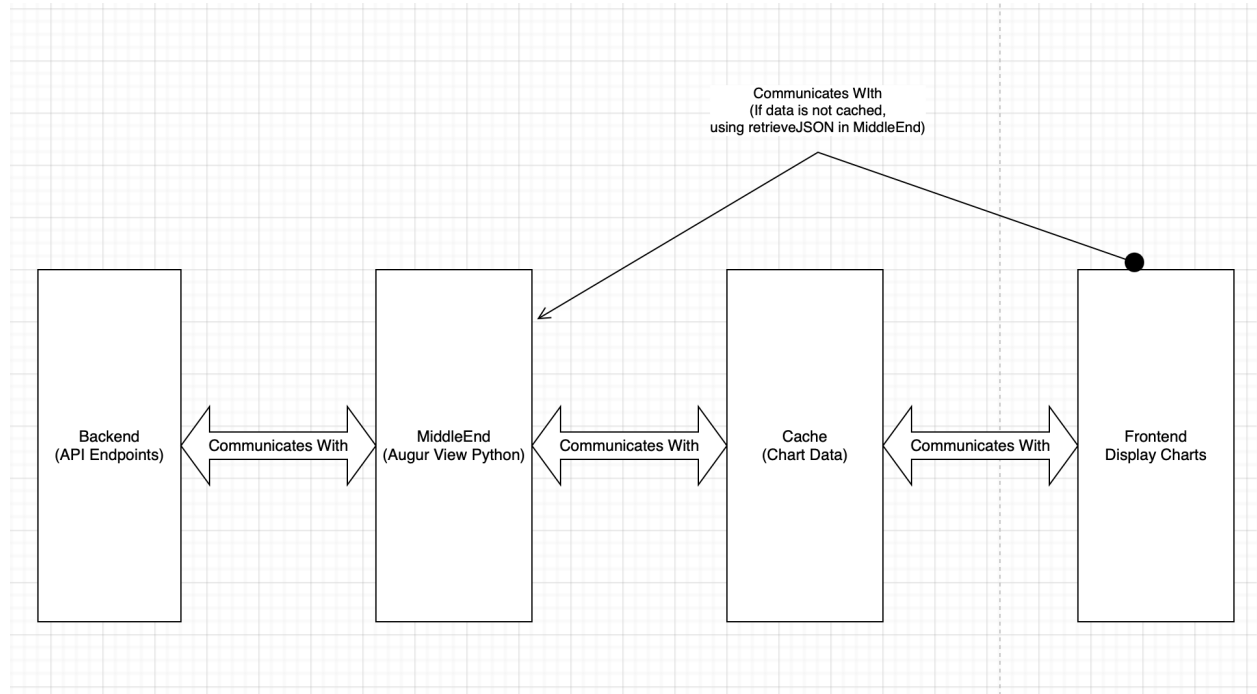
High Priority: 1

Low Priority: 5

Testing Plan

Given that the modifications are largely to the front end and how users will interact with Augur-View, our team will test the final project by hand. We'll go through several repos and confirm that the interactive charts are being generated properly when data is available, and acting correctly when it isn't.

Caching



https://drive.google.com/file/d/1fEFujzQz2Y-siwMXkdkan7koPwraNP_z/view?usp=sharing

Sprint 3 Progress Screenshots

