DAR Report

Hubba - Chart and Graph JS

Version 1.1

Prepared By: Development Hell

Class: CECS 491-04

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Github Repository:

https://github.com/DevelopmentHellaHell/SeniorProject

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Revision History

Version	Overview	Date
1.0	Initial DAR report	12/10/2022
1.1	Adjudicated client comments for metrics chosen	12/12/2022

Decision

The following options will be considered as options for the charting system used within the application for visualizing data analytics.

- 1. Chart.js version 4.0.1
 - a. Charting system developed by group of community contributors
- 2. d3.js version 7.7.0
 - a. Charting system developed by Mike Bostock and Jeffrey Heer
- 3. Google Charts version 51
 - a. Charting system developed by Google

Analysis

Metrics	Chart.js	D3.js	Google Charts
Pricing	Free	Free	Free
(x 1.0)	1	1	1
Available Data Input Types For Chart Creation	JSON, JS array	JSON, CSV, DSV, Binary, text	Google DataTable
(x 1.3)	2	2	1
Trend Chart Available	Yes	Yes	Yes
(x 1.1)	1	1	1
Bar Chart Available	Yes	Yes	Yes
(x 1.1)	1	1	1
Configurable time	Yes	Yes	Yes
axis (x 1.1)	1	1	1
Combo/Hybrid Chart	Yes	No	Yes
Configuration (x1.1)	2	1	2
TOTAL (highest number is better)	9.1	8	7.8

Recommendation

Based on our analytics above, Chart.js is the leading option given our project's needs. In cases of any changes to Chart.js that would affect our implementation, D3.js would be our second best option.

References

- Cai, M. (2018, December 31). Charting the waters (pt. 2): A comparison of JavaScript charting libraries. freeCodeCamp. Retrieved December 10, 2022, from https://www.freecodecamp.org/news/charting-the-waters-pt-2-a-comparison-of-javascript-charting-libraries-96e9fb79b856/
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