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Group Project 3 - Storefront with JavaScript
Team DayTa

Description:
This project is to build on our current site but now adding functionality with Javascript.

Approach / What I Did:
Dale implemented the dropdown function of the "Planets" button and hide/show button for the navigation.

Yejin added bubble charts using Plotly.js to some of the categories in the visualization page.

Alex helped with the bubble charts and added styling to the individual planet page.

Issues and Resolutions:
Dale had an issue with the planet dropdown. When the user leaves the dropdown open and tries to move to a new page, the dropdown resets to being closed. The solution was to use sessionStorage to save the state of the dropdown and add an event listener for whenever a page is loaded to call the dropdown function depending on the saved state.

When Yejin and Alex helped each other with the bubble chart there were some sync errors that occurred which led Alex to not be able to git pull. Since, the changes were minimal, the issue was resolved by reverting the changes Alex made so she can git pull Yejin's part.

Yejin encountered an issue during the data preprocessing step. When applying Z-score normalization followed by min-max normalization to the original data, there were cases where the smallest data point resulted in a value of 0. Since visualization with 0 is not feasible, she addressed this by arbitrarily setting data points with a value of 0 to 1 or 10, representing them as the smallest values. Additionally, she modified the data so that when a reader hovers over a data point, the actual original data value pops up, aiming to avoid confusion for the viewer.

Analysis:
This assignment required us to add JavaScript so we started plotting data using Plotly.js. However, we had to make sure that the way we are visualizing the data makes sense. For example, using a graph would not make sense because there cannot be any values between planets. Because of this, we decided to stick with bubble charts for this assignment and plan to add more variety for our finished website.