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Project Proposal: Well-being Tracker

Mission Statement
To track data for a user's subjective well-being alongside other metrics in order to model that data visually and display correlations.

Detailed Description of Core Features
The user will create an account where they will have the option of selecting certain predefined metrics to track, as well as the option to add their own. The one metric they will be required to track is subjective well-being, or an array of more specific well-being metrics (e.g. energy, mood). User will be able to add their entries for these metrics daily. An interactive line graph will be displayed for them that charts their metrics over time alongside each other. This line graph will be created with a Javascript charting library (new technology).This will show potential correlations between certain metrics and a user's well-being, potentially motivating them to either make better lifestyle choices or maintain the ones they currently have in place. Users will also be able to hover over points on the graph to view metrics for that day.

Stretch Goals
- As an alternative to viewing past data points by hovering over the graph, allow the user to search for a specific day in a text box
    - Can also integrate a calendar widget to let them search
- Calculate correlation coefficients/significance to analyze trends and create recommendations for the user
    - If nutrition metrics are tracked, pull in food data from a public database API to generate food recommendations (e.g. "Your protein intake has been low, consider adding one or more of the following to your diet: <list of high-protein foods>")
- Allow for user account creation with third-parties (e.g. Google, Facebook)