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Midterm Project Proposal

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Currency Exchange API Accessor

Summary:

Money makes the world go round, but we need real time statistics to know just how much ours can. The purpose of this project will be to host an accessor for a currency exchange API (linked below) that can quickly retrieve the exchange rate for two currencies as well as provide a window for an initial value to be converted. As I accomplish this project, I may add more features as necessary that will be added to an amended design document. An amended design document will be submitted with each milestone.

Source:

API – https://github.com/fawazahmed0/exchange-api

Data:

A good primary endpoint for this project looks to be <https://cdn.jsdelivr.net/npm/@fawazahmed0/currency-api@latest/v1/currencies.json>.

The key points data points will be:

exchangeRate(1 & 2) : float – These will be the exchange rate of the currency in context

of the USD. From this, we can find their relational exchange rate.

Example of the format (not final):

A screenshot of a video game

Description automatically generated

Milestones:

10/30, Milestone 1:

Functional draft with API calls

11/6, Milestone 2:

Improved draft with accurate realtime conversions between currencies

11/20, Milestone 3:

Final draft with a significantly larger support for currency types.