CSE 115 Project part 2

**Project Report**

**Description**

The app is going to summarize the exchange rate between two currencies in different time from which people can see the tendency of the fluctuation of exchange rate.

**Data set**

The data set I choose is 1Forge: Forex currency market data

<https://1forge.com/forex-data-api/api-documentation#libraries>

**Data process**

Using Flask to connect with the API data and to get data from the data set.

Select the symbol, timestamp, market\_is\_open and price from the data set.

And then send to front-end

**Data visualization**

First, I choose the financial charts: time series, which use the time as the horizontal axis and the exchange rate as the vertical axis which help people to realize the change of the exchange rate of this two currencies.

Second, I choose the line charts, which use both USD as the based currency, other currencies as horizontal axis and the exchange rates as vertical axis. The data which is at the same timestamp is chosen to demonstrate the variation of the exchange rates of different currencies. The market\_is\_open is used to find out whether the market is open or not. If the market is open, people can exchange the currencies at that time, if it is closed, that means people cannot exchange at that time.

**Additional criteria**

Using a web framework other than bottle: Flask