**FI Parser Project Requirements**

Dev: Daniel Grammer

Client: Shawn Grammer

Deadline: 12/20/2024

Language: Python

Input Format: Excel Document

Output Format: Excel Document

Project Requirements:

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| **Step** | **Description** |
| Input | 1. The input for this scraper would be an excel sheet containing the names of all of the FI funds that need to be evaluated. |
| Scrape | 1. Need to pull data from Yahoo Finance’s [Historical Data](https://finance.yahoo.com/quote/EFR/history/) tab. Python’s yfinance library is the most likely candidate. |
| Parse | 1. After pulling in data, we need to extract the share price information **for the first of each month** and any dividends contained in a month. 2. Dividends in a month need to be added together. Months with no dividends will have null dates.   TABLE 2:    TABLE 3: Growth Calculations   * Reinvestment amount * Number of shares on reinvestment * Cumulative value of Reinvestment based on monthly closing price. * Ending Shares     TABLE 4:   * Yearly IRR based on starting and ending value. |
| Format | All tables need to then be put into a formatted, readable excel document. |
| Output | Placed in a file location controlled by a JSON configuration document. |