api_connect.py

Connects to the Coinbase API and gets the prices of the different cryptocurrencies. There was a bug in the original API code which would not return the prices of Ethereum or Litecoin so the library used is found at:

https://github.com/coinbase/coinbase-python/tree/f9ed2249865c2012e3b86106dad5f8c6068366ed

accounts.py

Provides structure and functions to get the amount invested and amount possessed for each currency for a particular user. Also contains optional parameter for an email address if the user would like to receive reports on profits each day.

emailer.py

Contains the sendReport(destination, message) function which uses smtplib to send reports through email. Destination is where the report will be emailed to and message is the report. A username and password needs to be entered in for an email for the report to be sent from.

report_generator.py

Contains generate_report(message, dictionary, new_account) function where message is a dictionary key that maps to an accounts instance, dictionary is a dictionary that contains all created accounts, and new_account is a Boolean which indicates whether or not a new account is being created.

If the message maps to a created account, a report that contains gains and losses will be returned. If the report is a new account a user id will be also be returned which is the key to their account.

If the message does not map to an account directions on how to properly set up an account will be returned.

monitor.py

Contains the monitorNewAccounts(), sendReports(), and timed_Input() functions. Together these functions will constantly monitor if a new account is being added or if anything is being entered in to the console. It will take in whatever is entered on a timed input and generate a report based on the input. It will also generate reports and email them to each user that included an email address during set up each day at a particular time.

driver.py

Where everything comes together, to run program have all of the modules in the same directory and run the driver file.

Value_Scraper.py

Not used anymore, the layout of site changed.