

Real-time adaptation

Assume in this section that the dataset you have chosen is a “live” dataset. In the file realtime.pdf, you are required to develop the architecture from subsection 2.2 to incorporate real-time updates. (You are NOT required to implement this section in code.)

For a real-time application, I have thought of creating a Python script running in the background every day (as the frequency of my dataset is daily). I did not find at what time the new market data from the previous day is available, therefore I will assume, just as an exercise for this question, that new data is daily available at 00:00.

On database:

- I would create a new table called last_visit as a way to track the last time the database was updated.

On Python:

- I would create a new python file where I would look up the new market data from PayPal called getStockPrice.py. This would verify that the date of the information about to be inserted is not the same as on last_visit. If not, insert into daily_data table and upgrade table last_visit
- I would create a new python file called startTask.py, using the library schedule to set the file getStockPrice.py to run every day at 00:00

The architecture would be as follows:

