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Thread: [How can I make this Python script add a limit to trades made with API?](#)

streetlawkarma - October 12, 2018, 4:48 am

I'm putting together a python script to make trades on poloniex with the API, and so far I've got it to make trades when certain conditions are met, but I still need it to NOT place anymore trades for the rest of that day (I have the entire script looping every 60 seconds).

So far I have this script:

Code

```
import requests
```

```
import urllib.request
```

```
import urllib.parse
```

```
import http.client
```

```
import hashlib
```

```
import hmac
```

```
import time
```

```
import json
```

```
from urllib.request import urlopen
```

```
The_Currency_Pair = input('Which Currency Pair?\nPAIRS TO CHOOSE\nFROM:\nUSDT_BTC\nUSDT_XRP\nUSDT_ETH\nUSDT_BCH\nUSDT_STR\nUSDT_LTC\nUSDT_ETC\nUSDT_XMR\n')
```

```
api = 'poloniex.com/tradingApi'
```

```
key = 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
```

```
secret = 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
```

```
def main():
```

```
    poloniexPrices = urlopen('poloniex.com/public?command=returnTicker').read()
```

```
    poloniexjson = json.loads(poloniexPrices)
```

```
    poloniexlastP = poloniexjson[The_Currency_Pair]['last']
```

```
    poloniexOCHL =
```

```
    urlopen('poloniex.com/public?command=returnChartData&currencyPair=USDT_BCH&start=1538352000&period=86400').read()
```

```
    poloniexOCHLjson = json.loads(poloniexOCHL)
```

```
    poloniexlasthigh = poloniexOCHLjson[-2]['high']
```

```
    print ('Last Price')
```

```
    print (poloniexlastP)
```

```
    print ('-----')
```

```
    print ('Last Day High')
```

```
    print (poloniexlasthigh)
```

```

print ('-----')

data = {
    'command': 'returnBalances',
    'nonce' : int(time.time() * 1000)
}
data = urllib.parse.urlencode(data).encode()

signature = hmac.new(secret.encode(), data, hashlib.sha512)

headers = {
    'Key' : key,
    'Sign': signature.hexdigest()
}

request = urllib.request.Request(
    url=api, data=data, headers=headers, method='POST'
)

text = urllib.request.urlopen(request).read().decode()

print ('MY ACCOUNT BALANCE')
try:
    print(json.loads(text)['USDT'])
except:
    print(text)
print ('-----')

```

```

if float(poloniexlastP) > 0:
    print ('PLACING TRADE')
    print ('-----')

    parms = {"command":"buy",
        "currencyPair":The_Currency_Pair,
        "rate":100,
        "immediateOrCancel":1,
        "amount":0.01,
        "nonce":int(time.time() * 1000)}

    parms = urllib.parse.urlencode(parms).encode()

    signature = hmac.new(secret.encode(), parms, hashlib.sha512)

    headers = {'Key' : key,
        'Sign': signature.hexdigest()}

    request = urllib.request.Request(
        url=api, data=parms, headers=headers, method='POST')

```

```
text = urllib.request.urlopen(request).read().decode()
```

```
ordernumber = (json.loads(text)['orderNumber'])
```

```
print ('Order Number:')  
print (ordernumber)
```

```
while True:  
    main()  
    time.sleep(60)
```

Anyway, after a trade has been placed, I need it to make sure that after the 60 second sleep, it doesn't make a second trade unless it is a new day/the day after the trade was made. (Could I use poloniex server time for this?)

So, if it has got as far as `print (ordernumber)` that means it has placed a trade. But how do I mark it as placed trade for the day or something and use it in the `if float(poloniexlastP) > 0`: for the next loop to make sure it doesn't place another one?

m0noxide - *October 12, 2018, 11:53 am*

There are a couple approaches to this, depending on where you want to get the information from

1. You could query the Poloniex API to get your order history (via the `returnTradeHistory` endpoint in their API), and check for the time difference
2. You store your own state, in the form of a file, or a simple DB like `sqlite`, and on startup, query the time difference for your last order
3. Etc..