Option Finder Report

**Main Purpose**

Main purpose of this report is to replicate the option finder on the “Option Profit Calculator” website (<https://www.optionsprofitcalculator.com/option-finder.html>

) in python code.

**Inputs and outputs**

Inputs:

* the ticker of the underlying asset
* target future price in USD
* expected date
* maximum risk in USD

Outputs:

* contract type (call/put)
* strike price
* expiration date
* No. of contracts
* entry cost
* estimated return at target price

Note: The inputs and outputs above are for one single plan. In practice, the final python code can take a list of sets of inputs and return a list of possible options for each set of inputs.

**Steps**

*Step1*

There is a python API for Yahoo Finance from which we can retrieve the most recent stock price of a stock.

*Step2*

Comparing the target price and current stock price we can decide if we need a call or put option.

*Step3*

Information about the available options with different strike price and expiration date can be scraped from Yahoo Finance (I am very confident about it). Example link: <https://finance.yahoo.com/quote/WKHS/options?p=WKHS&date=1597363200>

*Step4*

Proper options will be chosen according to the target price and expected date.

*Step5*

No. of contracts will be calculated based on the maximum risk amount and price of the option. Estimated return will be also calculated.

*Step6*

The result will be returned in ANY desired format (to be discussed).

**Estimation**

The whole coding process might take around 2-3 days.

**Note**

Given the flexibility of the programming, ANY feasible features can be added to the project.