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# Node.js Interview Questions



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It even has several that most other brokers do not support. For example, you might want to get a Telegram alert every time your script fires off an order. What we are after, is a price change that occurred in the last 5 minutes. #Main loop while True: if check\_for\_trade(df, apple\_contract): break time.sleep(0.1) app.disconnect() The above code is an infinite loop that calls the check\_for\_trade function to see if a 5% deviation has taken place, and execute a trade if it has. Since the ask price is part of the default dataset returned, we don't need to specify a tickType. If you're looking to avoid that, check out the instructions for setting up the API in Linux or on a Mac, the method works just as well for Windows. There are six different types of order conditions in total - Price, Time, Margin, Execution, Volume, and PercentChange. When we request contract details, it will get returned here. This way, if you make several market data requests at the same time, you'll know which returned data belongs to which asset. Let's go through this function in a bit more detail. This strategy has some similarities to the last one, although we need to take an entirely different approach and code this manually. app = IBapi() app.connect('127.0.0.1', 7496, 123) app.nextorderId = None #Start the socket in a thread api thread = threading.Thread(target=run\_loop, daemon=True) api thread.start() #Check if the API is connected via orderid while True: if isinstance(app.nextorderId, int): print('connected') break else: print('waiting for connection') time.sleep(1) The above code is similar to the prior examples. Alternatively, take the ibapi folder from within the pythonclient folder and place it in the directory you are creating your scripts to access the API from. If no errors appear, the install was successful. Now that you're able to get market data and create orders, you might want to implement some kind of an alert system. What is IB Gateway The IB Gateway is a minimal solution that simply allows a connection to be established and requires no configuration out of the box. VS Code, Sublime Text, and Atom also work great with Python and can be used with other programming languages as well. It requires an open, and constant connection which is why we use threading in the examples provided. Here is an example: def error(self, reqId, errorCode, errorString): if errorCode == 202: print('order canceled') A complete list of API codes (including error codes) can be found here - It is a good idea to use the codes associated with market data connections to ensure you have an active data connection and implement error checking when submitting orders to ensure the connection is active and price data is fresh. Set it to 1 if you want the response data to contain readable time and set it to 2 for Epoch (Unix) time. True to its name, it is used to create an object, or rather, instantiate the right class for our needs. If you'd like to configure some of the other options described above, go to the configuration page in Gateway by navigating to Configure - Settings - API - Settings. And, separate EWrapper functions are used to manage these. Next, we have our strategy function. The tickType, left empty in this example, allows you to specify what kind of data you're looking for. How to fire an order for Apple when Google moves more than 5% within the last 5 minutes? def tickByTickAllLast(self, reqId, tickType, time, price, size, tickAttribLast, exchange, specialConditions): if tickType == 1: self.bardata[reqId].loc[pd.to\_datetime(time, unit='s')] = price This function will return the last price. How to implement a stop loss or take profit using the IB Python native API? lastTradeDateOrContractMonth = '20210002' contract\_strike = 424 contract\_right = 'C' contract\_multiplier = '100' Here we've specified an option expiry of October 2, 2020, and a strike price of \$424. Another reason you might not be seeing an output could be because the script ended before a connection was established. The Data Type will typically be either BID, ASK, or MIDPOINT. Establishing a connection to Interactive Brokers' server What makes IB unique is that a connection is made to the IB client software which acts as an intermediary to the IB servers. A big advantage to Interactive Brokers is that it supports advanced order types. 3 ways to calculate the 20 SMA There are several ways to calculate the value of the 20-period simple moving average. We are setting this to None. This is where the decision making happens on whether we should execute a trade or not. But some steps might seem a bit complicated and if you're focused on the currency markets or only trading CFD's, it might be worth checking Metatrader 4 or Metatrader 5. app.placeOrder(app.nextorderId, contract, order) Our screen confirms the order has been sent and executed. Fortunately, there is a built in function which will tell you the next available order id. It usually returns an error related to this line - recvAllMsg buf = self.socket.recv(4096) which is from the connection.py file. This is a good example of something that could have been included in the class. And remember, you can always type in help(EClient) or help(EWrapper) in your Python terminal to get more information about the functions contained within them. If the condition is met we submit an order. Learn some trading from our sentiment analysis or futures trading guides! The IB API requires an order id associated with all orders and it needs to be a unique positive integer. Download the full codebase Github link (Click the green button on the right "Code" to download or clone the code) What's next? This should not cause any problems when it comes to trade execution unless your script often disconnects and reconnects. contract = Contract(contract.symbol = 'TSLA' contract.secType = 'OPT' contract.exchange = 'SMART' The above code should look familiar. You can get this id by searching the IB Contract and Symbol Database. This can cause data loss since we are storing our data based on the time value. Initially at least, it was later modified to accompany a lot more functionality. In this case, it didn't. Just to make sure it is installed correctly, go into your Python terminal and type in import ibapi. def check\_for\_trade(df, contract): start\_time = df.index[-1] - pd.Timedelta(minutes=5) min\_value = df[start\_time].price.min() max\_value = df[start\_time].price.max() if df.price.iloc[-1] < max\_value \* 0.95: submit\_order(contract, 'SELL') return True elif df.price.iloc[-1] > min\_value \* 1.05: submit\_order(contract, 'BUY') return True The first line is taking the very last index value in our DataFrame, which is the time value of the last data we received. The variable for price in a take profit might look something like this take\_profit.lmtPrice since the take profit is a limit order. Interactive Brokers abruptly limited retail traders from trading certain stocks in Jan 2021 (GAME, AMC etc). Let's take a look at the parameters required for reqMktData The reqId is a unique positive integer you assign to your request which will be included in the response. Perhaps when an order gets triggered, or a certain price point is reached. The second error is similar. Lastly, we've added a 0.1 second sleep to very briefly pause the script after each check. It looks something like this: Now that we have the data required for EUR/USD, let's create a contract object for it. We accomplish this by checking to make sure the length of the DataFrame is greater than 0. Here is the code: from ibapi.client import EClient from ibapi.wrapper import EWrapper from ibapi.contract import Contract(XAUUSD contract.symbol = 'XAUUSD' XAUUSD contract.secType = 'CMDTY' XAUUSD contract.exchange = 'SMART' XAUUSD contract.currency = 'USD' Tip: If you find yourself making a lot of requests for instruments within the same asset class, it might be easier to create a function that will create a contract object based on pre-defined parameters. There's a good chance you can do it Python. The Interactive Brokers Python native API is a functionality that allows you to trade automatically via Python code. Common Errors with the IB Python Native API v9.76 All the code examples in this article utilized version 9.76 of the IB Python native API, which is the most recent stable version as of June 01, 2020. The two orders are tied together by assigning the order number of the parent order as a parentId in the child order. All that's left now is to add the condition to an order and submit it. An easy way to store data is by saving it as a CSV file. Lastly, it was for the 9, 76, so other commands are not executed before the data comes in. It's easy to switch to the Gateway later on. Choose your IDE - We code our Python scripts in an IDE of our choice. It offers the same functionality as Sublime Text with the added benefit of embedded Git control. The fifth item is to obtain a snapshot rather than streaming data. If that happens, the script will break out of the infinite loop and end. Lastly, the contract multiplier is 100. If you're following along with this code example, you will have to change the option expiry if you're reading this after October 2, 2020. If you have a market data subscription, or one is not required, set this to False. Link: ib insync Guide - Interactive Brokers API IB Python native API vs Third Party Libraries (IBridgePy, libPy etc) The IB Python native API is officially developed and maintained by Interactive Brokers. The API connection will run in its own thread to ensure that communication to and from the server is not being blocked by other commands in the main block of the script. How to retrieve the current ask price of Apple's Stock (AAPL) To get the latest ask price of a stock, we create a contract object defining the parameters. Lastly, make sure Allow connections from third-party libraries. 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