# Brief description of Project

A real time project on Python need the web scraping of various symbol trade details from Google finance or Yahoo finance for any exchange.

You have to utilize these details for user custom report as well as store these details in database for future reference.

# Complete detail of the Project (Problem Statement)

Google finance or Yahoo Finance is the financial website provides the real time analysis of the financial shares traded on various exchanges around the world.

The scope of the Python web scraping project is to fetch the details of customorized financial instruments of the certain client (or user). And produced a user report with the required details and store these details in the database for the future analysis.

After the training, students must get comfortable with various concepts like: file handing, regular expression, command line arguments, modules, database interaction and web agent. These concepts will be used to accomplish the project.

# Technical Documentation of the Project

As a conventional standard, our Python project should split into various modules. One main script and each module perform some specific functionality. Like for database interaction we should create a module named as DBFunctions.py and similarly for others like logging of flow etc.

Our main script, import these modules into its namespace and follow the following steps:

1. Accept the command line arguments using any Python module. The script should have one mandatory argument (clientID) and one optional argument (date). If the date is not provided script consider the current date. If the user Id is missing display the usage of the script to the executer.
2. Script read the configuration file and fetched all the parameters/variables required for generic script like Database server name, Database name, logging directory, Database schema and table names etc.
3. Python script connects to the database and fetch the instrument detail associated with client (provided in Command line argument) stored in the database table/s. BUY Price, Date of purchase, SYMBOL and EXCHANGE name are the mandatory information your table should have.
4. For each SYMBOL, extract the information from the Google finance website and create a Python data structure for further use.
5. Write all the extracted information in the user defined format in the spreadsheet. Like: Current Price, 52 week low, High price, Loss or Profit % and other information may store in configuration file.
6. Connect to the database again and store the detail in the database table for future analysis.
7. DO NOT RESTRICT YOURSELF TO COMPLETE THE TASK TILL THIS LEVEL. SHOW INNOVATIONS like send email when stop loss trigger or SHOW SOME ANIMATION STUFF as well in an email.

CREATE A GUI IF YOU WANT AND CREATE ALL THE FUNCTIONALITY WHAT EVER YOU THINK IS Required.

ALL THE BEST!