

Applied Technology

462/562 Assignment 3

INTRODUCTION

You are to build a plugin for the WordPress Content Management System to display Stock Price information for a user selectable company.

This is an individual assignment

You will be graded on meeting the required custom tag – exactly which functions and code you use to achieve this is up to you – however you must use the PHP programming language.

What to do – Requirements

You must provide a Wordpress plugin that allows users to (once the plugin is enabled) enter a stock symbol (eg. APPL, GOOG, MSFT)

Your plugin must implement the custom tag **drawStockPriceDiv()** for use in a **Wordpress Template**.

Core Requirements

The custom tag must print out HTML that contains:

- The Ask, Bid and Change values for the stock symbol.
 - They must be labelled and styled so that a viewer of the page can easily see the separate values.
- The plugin must also have a menu in the administration section that allows users to enter the stock symbol of their choice.

Yahoo! Stock Symbol Web Service Details

You should use the Yahoo Query Language to get stock price information. Its quite easy and very similar to the SQL we have been using for database queries. An example YQL query looks like the following:

```
select * from yahoo.finance.stocks where symbol in ("aapl")
```

This example will return stock information from Yahoo when passed to the yahoo query endpoint – in much the same way as we used Yahoos weather service endpoint in the example from Week 8's video lecture. So – to query Yahoo for AAPL stock prices you would use a call to `file_get_contents($query)` where:

\$query =

[http://query.yahooapis.com/v1/public/yql?env=store://datatables.org/alltableswithkeys&q=select%20*%20from%20yahoo.finance.quotes%20where%20symbol%20in%20\(%22AAPL%22\)](http://query.yahooapis.com/v1/public/yql?env=store://datatables.org/alltableswithkeys&q=select%20*%20from%20yahoo.finance.quotes%20where%20symbol%20in%20(%22AAPL%22))

Note that we have escaped the YQL to be suitable for a URL (for example we have added %20 to represent spaces and %22 to represent quotes) – this can be done simply with the PHP function: urlencode(\$yql) where:

\$yql = 'select * from yahoo.finance.stocks where symbol in ("aapl")';

Use the urlencode function to encode your yql to select the stock symbol of the users choice.

Directory Structure of plugin

Required elements.

src/

stock[YOUR_STUDENT_NUMBER]/

[stock\[YOUR_STUDENT_NUMBER\].php](#)

You may include additional elements (CSS/JS) and other php pages as you feel required to best make your submission. Your submission **MUST** be in this format – it will not be graded if it is not in the required format.

Graduate Extension:

If you are enrolled in any section of 562 – you must also complete the following objective(s):

- You must allow the user to supply a list of stock symbol values and when the custom tag is executed – it displays all stock prices in a list in the same way the single stock price is listed above.
- HINT: You can extend the YQL easily to accept additional stock prices:
 - Eg. select * from yahoo.finance.stocks where symbol in ("aapl","msft","goog")

Submission Details

You must upload your submission, including source code inside a zip archive to blackboard by the due date. The submission must be in the following format:

- YOURFULLNAME_YOUR STUDENT ID NUMBER_AS3.zip *eg.*
BobSaget_A11111111_AS3.zip
 - src (folder)
 - .. other documents and folders as required

- README.pdf (describes your submission)

Late Policy

You will lost 10% of your assignment grade (1.2% of course grade) every 24hours that your submission is late, starting from 1minute after the deadline.

Extensions are given in rare circumstances due to serious illness or family issues and will only be considered up to 48 hours before the deadline and with proof of hardship.