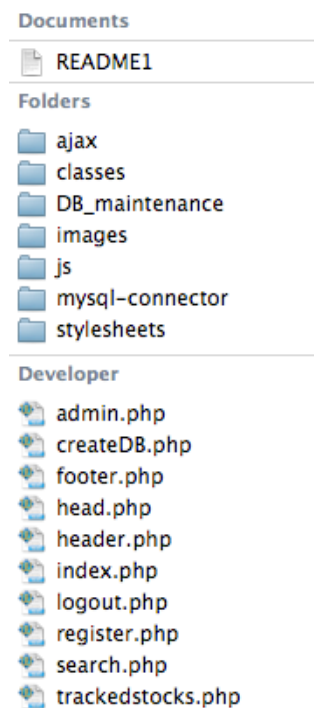# Technical Documentation

Objectives:

1. Comment code

2. Discuss file organization

3. Brief description of what each file does.

File Organization and Descriptions

Root Folder:

Documents
- README1

Folders
- ajax
- classes
- DB_maintenance
- images
- js
- mysql-connector
- stylesheets

Developer
- admin.php
- createDB.php
- footer.php
- head.php
- header.php
- index.php
- logout.php
- register.php
- search.php
- trackedstocks.php

All the main pages of the website are located in this folder and access to subfolders here as well, for better organization of the kind of files involved in this project.

admin.php :: Contains the admin page of the website. The admin page contains information about the historical data of user searches, adding new stocks into the database, removing stocks, and more. For more information, feel free to check out the PowerPoint.

createDB.php :: This script creates the database for the website when first installing the system. The necessary tables and information are provided for by this script.

index.php :: This script is the main page of the website, aka the main one accessed when first going to the website. From here the admin page may be accessed (currently there are only two pages available in the website) through the hardcoded link at the top right of the page. This page includes the search functions and the graph api provided for by Google. For more information, feel free to check out the PowerPoint.

search.php :: when the user searches for information from the index page, the search page is then accessed. This provides the information that the user requested in the index.php on the website.

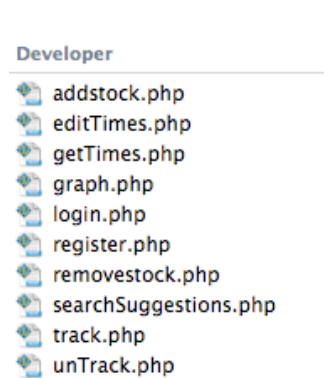**Footer.php**:: This contains the code for the footer of the page

Head.php:: This contains the code required to import any scripts to be used throughout the entire site.

Header.php::this contains the code for the header of the page

Logout.php::this contains the code for logging out of your account on our website.

Register.php:: this is the script that the holds the register page. The register page holds the information that you provide, such as your name, email, mobile number, and phone carrier and creates an account for you.

Ajax Folder

Developer
- addstock.php
- editTimes.php
- getTimes.php
- graph.php
- login.php
- register.php
- removestock.php
- searchSuggestions.php
- track.php
- unTrack.php

Accessed through the root folder, this folder contains all the dynamically related scripts for running the website.

addstock.php :: retrieves stock information from the remote database and adds it to the local so the admin can add new stocks for users to then be able to search and find information for. The reason why we do not include all the stocks is because of system overload, we do not have strong enough servers to cover the tens of thousands of stocks available to us in the world.

graph.php :: this is a simple script for inputting all the information from the database into the graph API provided for by google to get us the graphs based on the stock's historical data.

removestock.php :: removes a stock from the local database.

searchSuggestions.php :: another script that provides suggestions for inputted keywords that the user types. Shows up as a dropdown when the user types, similar to Google's search.

editTimes.php:: edits the times in the cron text file.

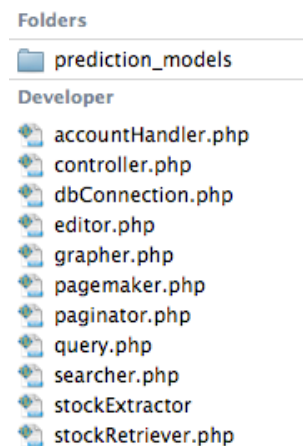**getTimes.php**:: gets the times from the cron text file and shows them on the page.

login.php:: Login into your account on the website.

register.php:: registers the user to the website database.

Track.php:: adds stock to the user watch list

unTrack.php:: Removes stock from users watch list.

Classes Folder

This folder contains all the classes used in our program, which is detailed in the second report as well.

Folders

📁 prediction_models

Developer

📄 accountHandler.php
📄 controller.php
📄 dbConnection.php
📄 editor.php
📄 grapher.php
📄 pagemaker.php
📄 paginator.php
📄 query.php
📄 searcher.php
📄 stockExtractor
📄 stockRetriever.php

controller.php :: the script that is accessed whenever the user tries to do something in regards to interacting with the website. This script then accesses the other classes or scripts in order to perform the requested input.

dbConnection.php :: accesses the database upon user request (for example when searching).

grapher.php :: the class that provides all the graphs in the website. This uses the google's graph API to provide an interactive graph.

pagemaker.php :: this class is the one that makes our system dynamic as it creates pages based on what the user requests. predictor.m :: this file is not a php script, but instead a matlab file that provides for the predictions.

query.php :: the php script that handles the query. Very important class as without it the search function would not work.

searcher.php :: handles the actual searching of the stocks requested.

stockExtractor.php :: extracts stock information from the local database.

stockRetriever.php :: retrieves stock information from the remote yahoo database
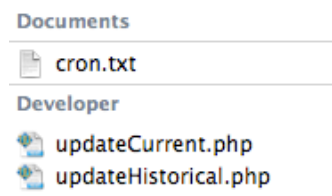
accountHandler.php:: Manages the the creation and authentication of user accounts.

editor.php:: edits the update and prediction timers stored within the cron text file.
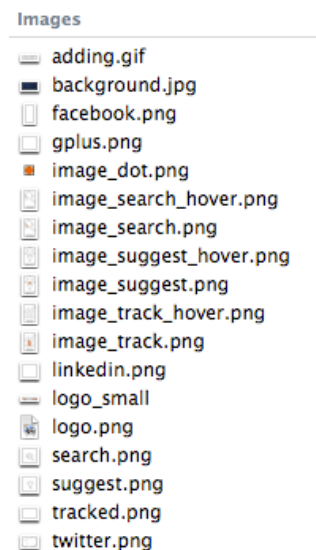
paginator.php:: divides search results into pages

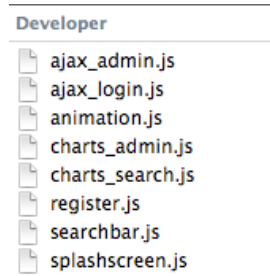**prediction_models**:: holds all the models necessary to make stock predictions.

DB_maintenance Folder

This is where all the files that updates the database is located.

Documents

cron.txt

Developer

updateCurrent.php
updateHistorical.php

updateCurrent.php :: Updates all current stocks.

updateHistorical.php :: Updates all historical data of stocks for the local database.

Images Folder

Directory of all images used for the website creation.

Images

adding.gif
background.jpg
facebook.png
gplus.png
image_dot.png
image_search_hover.png
image_search.png
image_suggest_hover.png
image_suggest.png
image_track_hover.png
image_track.png
linkedin.png
logo_small
logo.png
search.png
suggest.png
tracked.png
twitter.png

JS Folder

Directory of all javascript files used in the website. Many of these files are requested in the php scripts in order to run the system.

ajax_admin.js:: functions for the admin page are located here

ajax_login.js::functions for the login screen are located here

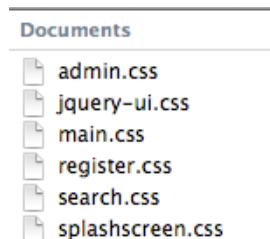**animation.js**:: functions for all the animations on our website are located here.

charts_admin.js::functions for the admin page charts are located here.

charts_search.js::functions for the searched stock charts are located here.

searchbar.js :: the bars visual effect which can be found above the search bar in the website is located here.

splashscreen.js :: when opening up the webpage, that minor splashscreen effect is done with this javascript code. Mysql-connector Folder

Stylesheets Folder

This directory is for all the stylesheets necessary to make the website look the way it does. The names should give away which page the CSS is affecting.