



DMIT2008 Assessment 1

Task: Stock Ticker App

Due: Midnight on Friday February 7th, 2021

Weight: 15%

Alpha Vantage API Key Sign Up: <https://www.alphavantage.co/support/#api-key>

Alpha Vantage Documentation: <https://www.alphavantage.co/documentation/>

Assessment Objective

In this assignment you are going to connect to an Alpha Advantage API and query the api to return stock data. The client using the app will be able to enter a stock symbol into a single form input. If the search is successful then you will display 4 key pieces of data about the stock. You must display the **stock symbol current price and the date** you must also include **three other pieces of information**. You can show more than 3 but no less than three. Make sure to handle form errors gracefully and you validate the data before you send any query to an endpoint.

139.07 USD **+2.20 (1.61%)** ↑

Closed: Jan. 22, 8:00 p.m. EST · Disclaimer

After hours 140.36 **+1.29 (0.93%)**

Use the [Alpha Vantage](#) REST API as the data source for your app. The Alpha Vantage documentation and API key url is at the top of the page. You can pick your own Stock API to use, however it must use an api key for authentication.

Project Setup

Use the folder structure that we have been using in class to build out your app. How you develop the app is up to you. You should be using ES6, modules and some code structure for the data request and display. The emphasis on this assessment is to see you create a minimum of code while achieving all required functionality. Secondly to be able to set up an ES6 client project and manage it using git and finally be able to deploy your solution using Netlify.

Git Repo

Setup a git repo for your project. You will be using the repo to manage your application code and to deploy to netlify. Do not forget to include a .gitignore file in your project and make sure you only upload the files that are required by your project to git.

**** All projects must contain a Readme.md.**

This file should contain a description of your app and what it is used for as well as how to use it.

There should be instructions on how to install your app in development and in production.

You should list any special tooling you use and provide links to the tools and documentation.

Provide a link to a working live demo of your app

**** Do not include the node_modules/ directory in your git repo ****

Package.json

Initialize the project to use node modules.

When initializing your project fill out all the required fields.

If you didn't set up a repo for your project come back and fill the git repo section later.

For the license use MIT.

Files and Folders

Create the source folder and the following sub folders. There is no requirement to use scss but you can if you want.

```
src
  -css
  -assets
  -scss
  -js
  -index.html
```

Install any dependencies that you need.

Use Parcel as the Bundler tool to compile your project modules.

Git Repo

Create a form with a single input field and a submit button. Make sure to validate the user input before sending the query.

Your form should give helpful hints if the user inputs wrong data. Once you have validated the form data create a query string and attach it to the endpoint url. If you need to format the request header, use a requestObject. Add the query string and the request object as the parameter to a fetch request.

The response will have the stock ticker symbol data. The one piece of data that must be displayed is the current stock price. Along with the price you can include any other three pieces of data. This data can be an additional information you think would be useful or important when searching for a stock.

Display

You are responsible for the layout of the form input field and submit button and any error message containers. The second view is the data presentation and it's up to you how to present the data. You can use any CSS framework you or any component css framework to help you build the views. The view should contain the following data

```
Stock Symbol
Stock Price
Date
Three additional pieces of Information
```

Code Format and Comments

Your code and comments should follow and adhere to JavaScript best practices. Use the Airbnb style guide as a reference.

Deployment

You are going to use Netlify to deploy your site. Set up your Netlify deploy with the deploy from Github option. Make sure that your repo is up to date with the latest version of your app before you submit your Netlify url. You should have more than two commits to your project repo. Meaning the initial commit and the final push to deploy should not be the only time you have updated the repository. Try creating branch deploys using Netlify and your Github repo.

Submission

Add a link to moodle to your github repo for your project.

Add a link to moodle to your Netlify site where your app is deployed.

Give your netlify URL a semantic name do not leave it at the default random assigned name.

MARKING KEY

Tasks	Available marks	Marks Awarded
Project structure Demonstrate good semantic files and folder naming. Includes package.json file Package.json includes a build script and dev script. Package dependencies are in the correct location for app dev dependencies and dependencies.	5	
JavaScript Modules Module for the data fetching Module for the views Module for controller logic	3	
JavaScript Functionality Connects to API using api documentation recommended connection type. Search functionality works with helpful user messages on form submission errors. Presentation of data using template literals or a templating engine or using Document Web API Presentation of 5 data elements	12	
Code Comments Code is well organized and is thoroughly commented. A developer should be able to read and understand the apps code login and flow. Best practices have been observed as outlined in the Airbnb style guide.	3	
Project Readme Project readme is available on git is well formatted and contains the required elements.	3	
HTM CSS Your markup is well formed and uses appropriate elements for the markup task. CSS names are semantic and styles and markup are optimized for production.	3	
GIT Repo git repo is well organized contains the correct files contains a git ignore file and only files needed by Netlify and to rebuild project are	3	
Submission Criteria Followed the submission guidelines	3	

TOTAL _____ **GRADE** _____