**CS 20 Web Programming  
Assignment 14: Stock Ticker App**

## Deliverables

## PDF file showing all code and answer to the question below

**Video** showing part I running

**URL of the file online or video** for part II

(note, you may use a zoom recording with voiceover to describe what is happening or screen recording with an accompanying writeup explaining what we are seeing on the video)

## Objectives

This assignment will require you to use many of the skills you have developed throughout the course.

**Background**

Companies that have stock and are publicly traded through a stock exchange have a code that is known as their stock symbol or stock ticker (<https://Investopedia.com/terms/s/stocksymbol.asp>). In this web app, your user will be able to select the company and find out the symbol or enter the symbol and find the corresponding company. Symbol/company data will be stored in a MongoDb database.

**Tasks**

Part 1. Create a MongoDB database and a collection called *companies* to store company names and their stock ticker (the symbol associated with a company stock)

Create a web app to read a comma delimited file of companies and their stock ticker code - and insert corresponding entries into the MongoDB companies collection. Use this file for sample data: companies.csv

This should be a separate web app as for Part 2.

*Note: You may not use the csvtojson module or mongodb import to make this happen.*

Part 2. Create an HTML form in an HTML or Node.js file that asks the user to enter a stock ticker symbol OR a company name. Suggestion: do this with two separate input boxes - or one input box with a radio button to select the type of input.

The form action should be directed to a Node.js app that displays both the name and stock ticker for the company identified from the form data. Several company names may share the same stock ticker. If the user types in the stock ticker, all matching company names should be displayed.

**Hints**:

You will want to implement this as two *separate* web apps:   
1. For part 1, a web app will read data from a csv file and use it to populate the database  
2. For part 2, a web app will display the form and show the results of the company/ticker search.

**Ground** **rules**

The database must be hosted in the cloud. The web app can be local.  
**Extra credit** (10 points) if the web app is online and deployed via Heroku

**Question:**  Node.js vs PHP- which do you prefer and WHY.

**Rubric:**

Part 1 runs correctly, code provided, video provided:  35 points

Part 2 runs correctly, code provided, video or URL provided : 50 points

Effort:  15 points