Introduction to the Final Project

In this assignment, you define your own custom project. The requirement for the project at this stage is:

Advanced Java – we have covered a lot of the topics on basic Java so far. This is an opportunity for you to learn something that you (and your team) are interested in. Examples of things include using something from the Java library not seen so far, learning and implementing new data structures, and using external libraries.

One suggestion is using datasets in your projects. You have broadly two options: use public data for cities and the US (such as [http://www.data.gov](http://www.data.gov/), [http://opendataphilly.org](http://opendataphilly.org/), and [kaggle.com](https://www.kaggle.com/)); use public APIs (and the corresponding Java libraries) like Facebook, Twitter, etc.

Other than these constraints, you are free to choose a project of your liking.

Project Requirements

You can choose to work in groups of 2-3 people. At this stage, you need to outline your project idea and your teammates. **Every** team member should individually submit a file with the following:

* Names of the members of the team
* Project idea along with a short description
* A short work breakdown – who will do what?

Our team members are Tiffany Choi, Rob Stanton, and Joseph Kravets. Our project is a program where a user can enter a stock ticker and get useful technical and statistical analysis of its trading history. For example, a user will enter the ticker “AAPL” and can see a linear regression of the price, the 200 day moving average, the 50 day moving average, the zscore of the price, and other useful metrics.

Joseph Kravets will pull the stock data and make sure it is usable. Tiffany will choose and implement the financial metrics. Rob Stanton will design and implement the user interface.