# Lab 5 – node.js, angularJS and the Twitter API

In this lab we are going to create a node server to read from the twitter stream and create a file like we used in lab 1; tweets.json

Your program should read tweets and put them in a file named according to convention, adding –tweets.json to the end: “*convention*-tweets.json”

**Objective 1 – For node.js portion of the lab:**

You are to use the express framework to setup your server;

Information about express can be found here:

<http://expressjs.com/>

You will be reading from the twitter API;

Information about twitter’s streaming API can be found here;

<https://dev.twitter.com/docs/streaming-apis>

And you might want to check this out:

<https://www.npmjs.com/package/twitter>

or (as an example)

Checkout the ntwitter API as an option here (Deprecated, but a good example); <https://github.com/AvianFlu/ntwitter>

**Objective 2 – For the interface portion of your lab:**

You are to use the angular framework to create a front-end for your application. The interface can be simple however it must have at least the following:

* A field in order to enter search criteria
  + If no query is entered default to tweets in the RPI area –
  + Southwest corner = -73.68,42.72, Northeast = -73.67,42.73
* A button to pull the data
* An input field to tell the application how many tweets to read
* As tweets are read, they should be output to the screen
  + (as in earlier labs formats or not or better)

Info about angular can be found at <https://angularjs.org/>

**Objective 3 – For the output portion of your lab:**

You are building an input file that can be used for your lab1, therefore, your output file needs to be in the proper format so that we may test your output file as the input for lab 1.

As you will be writing data to a file;

You will need the fs module (<http://nodejs.org/api/fs.html>) in order to write to your file.

You will be graded on the following;

Objective 1 – node server and API : 10

Objective 2 – Interface and output : 10

Objective 3 – output portion : 10

Creativity/Coding style : 10

Documentation/Read.me : 10