

CSC 591 – Social Computing

Programming Assignment 2 – Crowdsourcing

Twitter Install Guide

This assignment would require creating an application with distributed components, details of which would be provided in 7 – 10 days.

All communication between the different components would take place using Twitter.

This guide has instructions on getting access to the Twitter API and setting up your environment to send/receive tweets. The guide is divided into three sections: Getting your Twitter access keys, Using a Java API, and Using a Python API.

Use the message board if you have any questions regarding getting Twitter set up.

You may however use any of the following languages:

1. Java
2. C++
3. JavaScript
4. Python

Getting access to Twitter:

1. Create an account on Twitter if you do not have one.
2. Head to apps.twitter.com and click “Create New App”.
3. Once you’ve filled up all the information on that page and created a new app, head to the “Keys and Access Tokens” on the application page.
4. Take note of the Consumer Key, Consumer Secret and create a new access token and take note of this as well. You will need these to authenticate before posting new tweets.

Twitter4J:

Twitter4J (<http://twitter4j.org/>) is a Java wrapper for using the Twitter API.

The following steps are required to set it up with Eclipse.

1. Download the library from <http://twitter4j.org/en/index.html#download>.
2. Create a new Eclipse project and import the library by going to Project > Properties>Java Build Path>Libraries>Add External Jar file.
3. Head over to <http://twitter4j.org/en/configuration.html> and follow one of the methods used for setting up the configuration file. Make sure the secret key, API key and token information is not present in the source code.
4. Once you have this set up you can send and receive tweets using some of the code snippets available at <http://twitter4j.org/en/code-examples.html>.

There's an example Eclipse project attached

(<http://courses.ncsu.edu/csc591/lec/602/Twitter4JDemo.zip>) and you could just add your secret keys, tokens, etc. in the space provided and it should work.

twitter-python

twitter-python (<https://github.com/bear/python-twitter>) is a Twitter library for Python.

The following steps are required to set it up for use with Python:

1. Install the library using pip: pip install python-twitter.
2. Import it to your Python file using 'import twitter'.
3. You can follow some of the examples posted on the website to get it running.

There's an example Python file attached

(<http://courses.ncsu.edu/csc591/lec/602/twitter-python.py>) and you could just add your secret keys, tokens, etc. in the space provided and it should work.