CMSC436: Fall 2013 – Week 8 Lab (Part II)
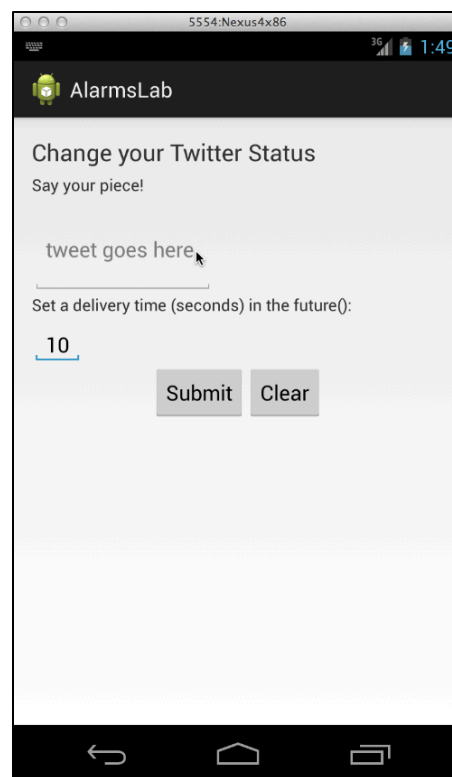
Objectives:

Familiarize yourself with Alarms and Networking. Create two applications using Alarms and Networking.

Once you've completed this lab you should have a better understanding of Alarm and Networking. You should know how to use and create alarms using the AlarmManager Service, and how to use Networking support classes to send HTTP POST/GET requests to other services on the Internet.

Overview:

In total, this lab has two parts. On Tuesday, we handed out part I, today we will hand out part II. This part of the lab focuses primarily on Alarms.

The user will enter a Twitter status update and then set a delivery time, measured as some number of seconds in the future. After this, if the user hits the submit button, the code should set an Alarm to go off at the specified time. When the Alarm goes off, it should start the AlarmTweetService, which will do the work of posting the new status to Twitter. You can see your posts on the www.twitter.com website.

Implementation Notes:

1) Download the application skeleton files from the Lectures & Labs web page and import them into your IDE.

2) Modify the code near the top of the AlarmTweetService so that not everyone is using the same Twitter Account. Note that since, we will be sharing several Twitter accounts, you should put some unique identifier on your tweets. Otherwise, you won't be able to distinguish your tweets from those of your classmates

3) Modify the set() method in AlarmCreateActivity so that it sets an Alarm to start the AlarmTweetService.