#include <SPI.h>

#include <nRF24L01.h>

#include <RF24.h>

#include <RF24\_config.h>

#include <Bridge.h>

#include <Temboo.h>

#include "TembooAccount.h" // contains Temboo account information

/\*\*\* SUBSTITUTE YOUR VALUES BELOW: \*\*\*/

// Note that for additional security and reusability, you could

// use #define statements to specify these values in a .h file.

const String TWITTER\_ACCESS\_TOKEN = "Insert Your Token";

const String TWITTER\_ACCESS\_TOKEN\_SECRET = "Insert Your Token";

const String TWITTER\_API\_KEY = "Insert Your Token";

const String TWITTER\_API\_SECRET = "Insert Your Token";

int numRuns = 1; // execution count, so this doesn't run forever

int maxRuns = 10; // the max number of times the Twitter HomeTimeline Choreo should run

int msg[1];

RF24 radio(9,10);

String theMessage = " ";

char incomingByte = 0;

const uint64\_t pipe = 0xE8E8F0F0E1LL;

void setup() {

 Serial.begin(9600);

 // For debugging, wait until a serial console is connected.

 delay(4000);

 while(!Serial);

 Bridge.begin();

 radio.begin();

 radio.openWritingPipe(pipe);

}

void loop()

{

 // while we haven't reached the max number of runs...

 if (numRuns <= maxRuns) {

 Serial.println("Running ReadATweet - Run #" + String(numRuns++));

 TembooChoreo HomeTimelineChoreo;

 // invoke the Temboo client.

 // NOTE that the client must be reinvoked, and repopulated with

 // appropriate arguments, each time its run() method is called.

 HomeTimelineChoreo.begin();

 // set Temboo account credentials

 HomeTimelineChoreo.setAccountName(TEMBOO\_ACCOUNT);

 HomeTimelineChoreo.setAppKeyName(TEMBOO\_APP\_KEY\_NAME);

 HomeTimelineChoreo.setAppKey(TEMBOO\_APP\_KEY);

 // tell the Temboo client which Choreo to run (Twitter > Timelines > HomeTimeline)

 HomeTimelineChoreo.setChoreo("/Library/Twitter/Timelines/HomeTimeline");

 // set the required choreo inputs

 // see https://www.temboo.com/library/Library/Twitter/Timelines/HomeTimeline/

 // for complete details about the inputs for this Choreo

 HomeTimelineChoreo.addInput("Count", "1"); // the max number of Tweets to return from each request

 HomeTimelineChoreo.addInput("AccessToken", TWITTER\_ACCESS\_TOKEN);

 HomeTimelineChoreo.addInput("AccessTokenSecret", TWITTER\_ACCESS\_TOKEN\_SECRET);

 HomeTimelineChoreo.addInput("ConsumerKey", TWITTER\_API\_KEY);

 HomeTimelineChoreo.addInput("ConsumerSecret", TWITTER\_API\_SECRET);

 // next, we'll define two output filters that let us specify the

 // elements of the response from Twitter that we want to receive.

 // see the examples at http://www.temboo.com/arduino

 // for more on using output filters

 // we want the text of the tweet

 HomeTimelineChoreo.addOutputFilter("tweet", "/[1]/text", "Response");

 // and the name of the author

 HomeTimelineChoreo.addOutputFilter("author", "/[1]/user/screen\_name", "Response");

 // tell the Process to run and wait for the results. The

 // return code will tell us whether the Temboo client

 // was able to send our request to the Temboo servers

 unsigned int returnCode = HomeTimelineChoreo.run();

 // a response code of 0 means success; print the API response

 if(returnCode == 0) {

 String author; // a String to hold the tweet author's name

 String tweet; // a String to hold the text of the tweet

 // choreo outputs are returned as key/value pairs, delimited with

 // newlines and record/field terminator characters, for example:

 // Name1\n\x1F

 // Value1\n\x1E

 // Name2\n\x1F

 // Value2\n\x1E

 // see the examples at http://www.temboo.com/arduino for more details

 // we can read this format into separate variables, as follows:

 while(HomeTimelineChoreo.available()) {

 // read the name of the output item

 String name = HomeTimelineChoreo.readStringUntil('\x1F');

 name.trim();

 // read the value of the output item

 String data = HomeTimelineChoreo.readStringUntil('\x1E');

 data.trim();

 // assign the value to the appropriate String

 if (name == "tweet") {

 tweet = data;

 } else if (name == "author") {

 author = data;

 }

 }

 Serial.println("@" + author + " - " + tweet);

 String steve = ("@" + author + " - " + tweet);

 int messageSize = steve.length();

 for (int i = 0; i < messageSize; i++){

 int charToSend[1];

 charToSend[0] = steve.charAt(i);

 radio.write(charToSend,1);

 }

 msg[0] = 2;

 radio.write(msg,1);

 } else {

 // there was an error

 // print the raw output from the choreo

 while(HomeTimelineChoreo.available()) {

 char c = HomeTimelineChoreo.read();

 Serial.print(c);

 }

 }

 HomeTimelineChoreo.close();

 }

 Serial.println("Waiting...");

 delay(90000); // wait 90 seconds between HomeTimeline calls

}