```
package edu.seaaddicts.brockbutler.maps;
 2
 3
     import android.content.Context;
     import android.os.Handler;
 4
 5
     import android.os.Looper;
 6
     import android.os.Message;
 7
     import android.util.Log;
8
q
     public class MapsHandler extends Handler {
10
11
       public static final int MAPS_REQUEST_UPDATE = 0x001;
12
       public static final int MAPS_REQUEST_LOCATION_EXISTS = 0x002;
13
       public static final int MAPS_REQUEST_DIRECTION = 0x003;
14
15
       public static final int MAPS_SEND_POSITION = 0x004;
16
       public static final int MAPS_SEND_DIRECTIONS = 0x005;
17
18
       public static final int MAPS_ERROR_NO_LOCATION = 0x006;
19
       public static final int MAPS_ERROR_NO_WIFI = 0x007;
20
21
       public static final int THREAD_REQUEST_START = 0x008;
       public static final int THREAD_REQUEST_STOP = 0x009;
22
       public static final int THREAD_REQUEST_PAUSE = 0x010;
23
24
       public static final int THREAD_REQUEST_RESUME = 0x011;
2.5
26
       public static final int THREAD_UPDATE_POSITION = 0x012;
27
2.8
       private static final String tag = "MapsHandler";
29
      private Handler mMainHandler;
30
      private Thread mMapsThread;
31
32
       private Object mPauseLock;
33
       private boolean mIsPaused;
34
       private boolean mIsFinished;
35
      public MapsHandler(Looper main, Context c) {
36
37
         super(main);
38
         Log.d(tag, "----+++++ Creating Handler from Looper ++++++----");
         mMainHandler = new Handler(main);
39
        mIsPaused = true;
40
41
         init();
       }
42
43
       public MapsHandler(Handler main, Context c) {
44
         Log.d(tag, "----");
45
46
         mMainHandler = main;
47
        mIsPaused = true;
48
         init();
49
       }
50
       private void init() {
51
52
         mPauseLock = new Object();
53
54
         // Set up Maps Thread
55
         mMapsThread = new Thread() {
56
           int count = 20;
57
58
59
60
           @Override
           public void run() {
61
62
             Log.d(tag, "Thread started.");
63
64
             while (!mIsFinished) {
65
               // do your stuff here
66
67
               mMainHandler.sendEmptyMessage(count);
68
               try {
69
                 Thread.sleep(3000);
70
               } catch (InterruptedException e) {
71
                 // TODO Auto-generated catch block
```

```
e.printStackTrace();
               }
73
74
               count += 1;
75
               synchronized (mPauseLock) {
76
                 while (mIsPaused) {
77
                   try {
78
                     mPauseLock.wait();
79
                     Log.d(tag,
                         "----");
80
8.1
                   } catch (InterruptedException e) {
82
                     e.printStackTrace();
83
          } } }
84
85
86
87
88
         };
89
90
91
       @Override
92
       public void handleMessage(Message msg) {
93
         switch (msg.what) {
94
95
         case MAPS_REQUEST_UPDATE:
96
           Log.d(tag, "----++++ Sending update to MapsActivity. +++++----");
97
           mMainHandler.sendEmptyMessage(MAPS_SEND_POSITION);
98
           break;
99
100
         case MAPS_REQUEST_LOCATION_EXISTS:
101
           Log.d(tag, "----+++++ Checking for location. +++++----");
102
103
           // Runs Thomas' code to check for existence.
104
105
           // if (mDoesExist)
106
           // send information
107
           // else
108
           // mMainHandler.sendEmptyMessage(MAPS_ERROR_NO_LOCATION);
109
           break;
110
         case MAPS_REQUEST_DIRECTION:
111
           Log.d(tag, "----++++ Getting directions. +++++----");
112
113
           mMainHandler.sendEmptyMessage(MAPS_SEND_DIRECTIONS);
114
           break;
115
         case THREAD_REQUEST_START:
           if (!mMapsThread.isAlive()) {
116
117
             Log.d(tag, "----");
118
             mMapsThread.start();
119
             mIsPaused = false;
120
121
           break;
122
         case THREAD_REQUEST_PAUSE:
123
           if (!mIsPaused) {
124
             synchronized (mPauseLock) {
125
               Log.d(tag, "----");
               mIsPaused = true;
126
             }
127
           }
128
129
           break;
130
         case THREAD_REQUEST_RESUME:
           if (mIsPaused) {
131
132
             synchronized (mPauseLock) {
133
               Log.d(tag, "-----");
134
               mIsPaused = false;
135
               mPauseLock.notifyAll();
136
             }
137
           }
138
           break;
139
         default:
140
           break;
141
         }
142
       }
```

143 }

144