**Test Plan for Bird App**

What is the goal?

The goal of this test plan is to solidify our testing strategy for the Bird App so that regression testing will keep us from introducing new bugs into our application. The regression tests that the Bird App currently has are brittle and many of the asserts do not fully test that our functionality is working, so this plan will outline a new system for testing.

What testing tools will be used?

We plan to continue with Robotium for automated testing as well as JUnit and Mockito for unit testing. Once the testing is fully caught up we will consider writing a new test plan for a change to a different testing framework such as Calabash or Espresso.

Who will be executing the test plan and catching up all of the testing?

Randy Miller will be the first person to undertake the task of catching up on all of the testing, as well as rewriting any test that needs to be rewritten. Other people may be asked to help as needed.

Functionality that needs manual test plans:

* Viewing Saved Bird Sightings On Google Map --
* Google Map Icons (Category Icons) --
* Custom Google Map Info Window --
* Camera Take and Save a Picture --
* Retake Picture --
* Data Input Thumbnail Picture --
* GPS Autofill for Bird Form

The need for manual test plans for that functionality comes from the inability to test maps with Robotium tests, and because pictures require visual inspection to make sure that they are correct.

Functionality that needs manual and automated test plans:

* Submit Bird Sighting
* Edit Bird Sighting
* Edit and Save Camera Settings

The need for both automated and manual tests for this functionality comes from the fact that automated tests can be written for the submitting and saving of bird sightings, but the submitting of the correct picture with the bird sighting needs to be tested manually. The edit and save camera settings can have automated tests to check that the camera settings can be changed and saved, but manual tests will need to be performed to check that the camera preview is updated with the correct view for those settings.

Functionality that will need only automated test plans

* Entered Data is not Lost on Screen Rotation
* Add New Activities
* Date/Time Autofill
* View List of Past Bird Sightings

This functionality can be thoroughly tested with just automated tests.

The unit tests in the project will also need to be checked and other made so that everything in our app that can be tested is tested.