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## **Project Description**

One of the major wildlife tracking techniques is to do triangulation on a radio transmitter attached to the animal. This involves someone in the field taking compass bearings at various different locations. That data is then entered into a computer algorithm to generate the animal's location (and associated error estimates). Most folks end up writing the field data down, then bringing it to a computer in the lab (excel spreads feeding into a windows program). For myself, I have a website that has an html form with dynamic language (TAL; the website is a Plone CMS) which activates a python script to do the algorithm and then sends the numbers into a google script that generates a plug-in google map within my page, showing the location and error. Upon hitting a save button, the data is written into an sql insert statement that is sent to an sql database (that happens to be on the same computer as the web server). This works pretty well, but is cumbersome for updating and is not something I can easily make available to other professionals, as a lot of links to specifically my server are deeply embedded within the programming.

This project will create an iPhone app that puts all this dynamic back and forth into one language, and can be used by any wildlife professional to do locations on the fly, saving either to the device or to an sql database - either their own, or a community one known as MoveBank.