Fall 2014 Research Plan

1.) Write a brief outline of your research plan:
We are making an Android application that gathers information about the user of the smartphone. The information is to be stored and analyzed in order to produce unique and personalized questions with respect to the user. The research involved in this project is identifying how to generate outlying questions that would not be simple to answer for anyone but the owner of the smartphone. If a secure procedure is developed then simple, multiple choice question based security could replace repetitive password security. Resulting in a shift from static security to dynamic security without compromising the quality of the security.

2.) What do you hope to learn and achieve by the end of the semester?
By the end of the semester, I want to have at least a working prototype of a fairly effective security system. The quality of the questions is probably something that can always be improved, but I want the algorithm to generate personalized questions that are, in the majority, outlying questions that would pose moderate to good security by the end of the semester. I want to better understand the Android run cycle and how a single application can affect the rest of the system. I want the generalized question creation to be in some way made so that it can be ported to other systems, i.e. have system developed that can be implemented in different environments. I also intend to become better acquainted with the process of pursuing a research goal.