Shake Off

Project Plan and Notes

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An alarm clock app that engages the user in physical activity in order to turn the alarm off. Meant to be more effective than a regular phone alarm clock.

Mobile Features

* Accelerometer - The user has to shake the phone in order to turn the alarm off. The app will be programmed to sense shaking and disable the alarm.
* Touchscreen - An alternative method to turning off the alarm is making the user swipe from one end of the screen to the other. May add a swipe pattern that requires both hands to fully engage the user.
* Photo upload - Allow the user to set an image of choice on the alarm screen.
* Microphone - May add a feature to turn off the alarm with voice recognition.

Functionality

* Basic - An alarm that turns off at the shaking of the device. Implement an alarm audio recording, an image, and motion detection.
* Expected - The alarm also disables to a set swipe pattern. Images can be set to the alarm screen.
* Bonus - Multiple, custom swipe patterns. Different shaking gesture detection. Turn off the alarm by voice recognition. Flashing through multiple images or strobe lights to really wake the user up.

Activities

* Home Screen
  + List of Alarms
    - Select/Edit/Delete
  + Create Alarm
* Active Alarm
  + Display name/message
  + Image
  + Swipe pattern
* Create/Edit Alarm
  + Alarm name/message
  + Time
  + Days
  + Image
  + Sound