sddec18-09: Hidden Guardian
Week 7 Report
March 24 - March 30

Team Members

Jennifer Frank — *Team Lead*
Keng-Yik Ho — *Chief Engineer*
Matthew Pedretti — *Hardware Engineer*
Jacob Stilwell — *Computer Programmer*
Thomas Kirby — *Backend Developer*

Summary of Progress this Report

This week we worked mostly separately on mobile and console application (with continuous hardware research being conducted). The mobile app worked on getting connected to the database and the console app gained ground on converting speech to text by finding a new library to use. The console app is now connected to the database and work on the boilerplate for the UI has now started. This week we also worked on updating our documents such as the project plan and figuring out what IEEE standards affect and may help our project

Pending Issues

Our main issue is still getting the audio from the console and is still our utmost important issue that we are working to resolve as soon as possible. We also are now working towards getting our work structured enough to have a solid proof of concept as our presentation is coming up.

Plans for Upcoming Reporting Period

Our plan for next week is to hopefully find a solution to gathering our audio and to fine-tune of speech to text code so the following week or so we can combine those two tasks. We will continue to work on getting basic functionality of the mobile application and if there is time towards the end of the week try to implement keywords. We will also try to have a functioning UI that will allow you to "login" and set a token for table entries to denote "your" entries.

Individual Contributions

Jennifer Frank
- **Contribution**
    - I updated the project plan and continued to work on basic android mobile application setup. I also did some research into getting the audio data from the console and still found nothing.
- **Hours - 5**
- **Total Hours - 47**

Keng-Yik Ho
- **Contribution**
  - Installing visual basic, familiarize myself with gitlab -research on the op-amp LM386
  - Determine the basic functions and finding the maximum power that can be provided by this op-amp, so that the suitable speaker driver can be purchased.
- **Hours - 4**
- **Total Hours - 32**

Thomas Kirby
- **Contribution**
  - This week i spent finishing the sqlite connections form the uwp app and am currently working on the boilerplate for the UI. my goal for the next week is to have a functioning ui that will allow you to "login" and set a token for table entries to denote "your" entries.
- **Hours - 10**
- **Total Hours - 50**

Jacob Stilwell
- **Contribution**
  - My main focus this week was setting up the database access on the android app and testing it.
- **Hours - 3**
- **Total Hours - 27**

Matthew Pedretti
- **Contribution**
  - I have been working on getting a sample program working for speech to text. I found a sample implementing various features from the library we are using provided by Microsoft and have been using that as a baseline. The sample program will continuously turn spoken English into text as a baseline. It is also going to demonstrate some of the other features possible with the library such as marking words that have a low confidence rating in translation and breaking the spoken words into chunks with time stamps.
- **Hours - 10**
- **Total Hours - 55**