

EE/CprE/SE 492 - sddec18-09

Hidden Guardian

Week 3 Report 1

8/20/18 - 9/10/18

Faculty Advisor: Professor Phillip Jones

Team Members:

Jennifer Frank - Team Lead/Mobile Application Development

Jacob Stilwell - Mobile Application Development

Matthew Pedretti - Hardware Engineer

Keng-Yik Ho - Hardware Engineer

Thomas Kirby - Database and Backend Development

Weekly Summary:

This week the Software Development side's main focus was to get the database connection working after we realized that our tasks were depending on it. Jacob was the lead in this effort and we made ground towards finding the solution. Our hardware side completed creating the exhaustive hardware list and is ready to get approval and purchase. We also made a small effort towards the mobile applications' front end and continued to work on the google speech to text api functionality.

Past Two Week Accomplishments:

Tom:

Jacob: Worked on troubleshooting the connection issue with the app and made login and registration page.

Jenn:

Speech to Text

- Created examples of speech to text conversion
- Researched Google's speech to text and how the python scripts would connect to the database

Mobile Application

- Reconfigured mobile application to Jacob's new release (handled Android Studio startup bugs)
- Attempted to create the database connection and troubleshot with team members
- Started the mobile application front end (GUI aspect, but couldn't go further because there was no database connection)

Matthew: Worked on finalizing the list of hardware components, with a focus on making sure that the different components will work with each other.

Keng Yik: List of hardwares

- Determine the input/output ports needed for the raspberry pi
- Searching for a suitable battery for the speaker
- Finalize the parts needed for the speaker

Pending Issues:

Software Team: The database and app are not connecting, leaving account creation and accessing unusable. We have concluded the issue lies within the database setup than our mobile application, as we have tried with a functioning app from the app store and still failed.

Individual Contributions:

Name	Contribution	Biweekly hours	Total hours
Jennifer Frank	Worked on speech to text and assisted in mobile application troubleshooting	11	21
Jacob Stilwell	Worked on troubleshooting connection issue and made login and registration page.	5	10
Matthew Pedretti	Finding and reviewing hardware components	4	9
Keng-Yik Ho	Searching the suitable parts for the i/o Raspberry Pi Zero	5	10
Thomas Kirby			5

Plans for the upcoming week:

Member	Task	Deadline	Notes
Jenn, Thomas and Jacob	Bring database connection issue to a professor and find the solution.	9/27	

Keng-Yik & Matthew	Have the component list approved and ordered	9/26	
Jenn	Work on main page mobile application development (have general design completed and simple connection to database functioning)	10/7	A bulk of this was postponed because of database connection
Jenn	Catch Thomas up to speed on the google speech to text api, so that he can start working on python scripts.	9/28	Requires meeting with Thomas (9/27)
Thomas	Create python scripts that connect the Raspberry pi to the google api on the server and then to the database	10/7	This was postponed because of database connection
Jacob	Based on the dependency on connection from database to app, work on login page and create account page	10/7	This was postponed because of database connection
Keng-Yik & Matthew	Get the raspberry pi running and a connection to the speaker	10/7	This is dependent on when our parts are ordered and come in.