Submission Date	9/18/2017
Project Name	Voice Recognition
Student Name	Patrick Ng
Project website	patng2007.github.io/VoiceRecognition
My project will	Take user input and output the answer to their questions if possible
The database will store	Input from the user. User will be able to sign in and access the information they had stored.
The mobile device functionality will include	Being able to access the data stored in the database when the user login in. More TBA as we are still thinking of ideas for the application for mobile devices
I will be collaborating with the following company/department	Prototype Lab
My group in the winter semester will include	Ryan, Ruel John
50 word problem statement	This project should be able to help people who need to remember information but can't access it or don't want to open their phone. For example how is the weather like. Another example would be a quick reminder like a to do list for the day.
100 words of background	This project is built to help people to store information and receive information. People would use it to create lists such as grocery list or to do list. It can also be able to do basic command like simple mathmatic or check the weather. Once the program is running from the Raspberry Pi, it will take a user input and translate it so the A.I could read it and output an answer which would come from a database connected to it.
Current product APA citation	(n.d.). Amazon Echo - Black. Retrieved September 17, 2017, from https://www.amazon.com/dp/product/B00X4WHP5E/ref=EchoCP_dt_tile_image/ref=s9_acss_bw_cg_EchoCP_4a1_w?pf_rd_m=ATVPDKIKX0DER&pf_rd_s=merchandised-search-4&pf_rd_r=PSZ6EHM06NDF8FNHCW7T&pf_rd_t=101&pf_rd_p=1ef430d5-baab-47c1-8732-315fbab3d67f&pf_rd_i=9818047011
Existing research IEEE paper APA citation	Barman, S., & Roy, U. K. (n.d.). A novel Bengali text-to-speech system to achieve both intelligibility and naturalness using a small voice database. Retrieved September 17, 2017, from http://ieeexplore.ieee.org/document/8009548/ Rithika, H., & Santhoshi, B. N. (n.d.). Image text to speech conversion in the desired language by translating with Raspberry Pi. Retrieved September 18, 2017, from http://ieeexplore.ieee.org/document/7919526/ Berdibaeva, %. K., Bodin, O. N., & Kozlov, V. V. (n.d.). Pre-processing voice signals for voice recognition systems. Retrieved September 18, 2017, from http://ieeexplore.ieee.org/document/7981748/
Brief description of planned purchases	Microphone: regular or built in (webcam) via USB to get input. Speaker: to hear the output. Raspberry Pi: To process and translate to the database.
Solution description	To allow users to access information quick and easy without doing much