

NiCa Bell

Team A2 Ayesha Khan, Aunonto Bhuiya, Ethan Chan, Lomamba Dieudonne, Alessandro Furlano

Client Interview Questions and Meeting Summary

Questions:

- Open ended questions
- Follow up questions



Meeting Summary: First Meeting:

- Fran has cerebral palsy
- Unable to project her voice at night
- Unable to push a button reliably
- Require some system to inform the night staff

Second Meeting:

• Presented our concept and got feedback



Client Needs

1: 2: 3:	4: 5: .		
Rank	Need	Metric	Units
1	Device is sensitive to sound/voice, but is quiet	8	dB
1	The device simply notifies the staff - no complicated commands	9, 10	dB, s
1	The device works independently of external equipment		
1	The device effectively notifies the staff	9, 10	dB, s
1	The device recognizes the words "hey" and "help"	8	dB
1	The device can be operated by one person alone		
1	The device has to be plugged into the wall, limits any complications with battery and charging	6	Amps, Volts Kw
1	Device needs to be easy to use and multiple different workers come in and out		
2	Device interacts solely with the client and her staff	9	dB
2	The device is wearable and portable	3,4	mm^3, g
2	The device uses lights to notify clients	11	cd
2	Device needs a light so fran can be noticed help is coming	11	cd
3	The device is small, similar to a tissue box, and fits on a side table.	2	cm^3
3	Device is hot pink		
4	Device needs to be the size of a tissue box if on a side table, device on wall mount has to be light in weight.	1,2	cm^3, kg
5	The device can be connected to the internet		

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1	The device has to be plugged into the wall, limits any complications with battery and charging	6	Amps, Volts, Kw
1	Device needs to be easy to use and multiple different workers come in and out		

Problem Statement

The client, Fran, requires a set of devices that can discreetly and effectively communicate with each other, thus, notifying her support staff through voice activation. The device should be low maintenance and function over a variety of distances.





BoomER Emergency Response System





SecurMEDIC





Philips Lifeline





Philip GoSafe



Metrics and Specifications

Team 2's product has two devices: Main and Staff Device Type: Night Call Bell (Main device) Device Style: Wall mount Dimensions: Height = 3", Width = 2", Length = 3" Weight: 125g - 250g Colour: Pink Power: 110V Device Type: Night Call Bell (Staff device) Device Style: Clip on Dimensions: Height = 1", Width = 2"; Length = 3" Weight: 30g - 50g Colour: Pink (or any) Power: Rechargeable

Metrics Number	Metrics	Unit	Values
1	Total Mass-Main	Kg	0.25-0.50
2	Total Volume-M	cm3	45.72
3	Total Mass-Staff	g	30-50
4	Total Volume-S	cm3	15.24
5	Cost	CAD\$	100
6	Power Source-M	A, V, W	15, 110-120, 1800
7	Power Source-S	A, V, W	15, 110-120, 5
8	Sound Intensity	dB	30
9	Indicator Volume	dB	60
10	Notification Duration	S	30
11	Light Indicator Brightness	cd	110



Metrics and Specifications - End

Based on these target specifications, Team 2 is now in the process of developing some prototypes for the most effective two-way communication device for our client and her support staff.

Design Concepts











Feasibility Study

<u>Risks</u>

- The price of a sufficiently sensitive mic for our clients needs exceeding budget.
- Recognition software is unable to decipher the necessary words.

Uncertainties

- Microcontroller board, programming language, and method of speech to text used for the project.
- Longevity of proposed software solutions.
- Structural material.



TELOS

AF: Can do C, prefers no coding, can solder , no solidworks(willing to learn), Can machinery (ottawa)

EC: Minimal machinery experience, decent soldering (have soldering iron), decent experience in cad softwares but not solidworks specifically, can do most programming language subtypes. ottawa

DL: Coding: minimal C++ coding, a bit of python. Other: Just learning new stuff now but willing to learn (especially hardware)

AB: Can code minimal: C/C++, java, moderate machinery experience, hand tools and hardware work is minimal but can learn. (Not in ottawa).

AK: Can code: python, c/c++, java, js, arduino, but bad with networks and servers. Can do all machinery and handtools and hardware, can do solidworks, can solder (but prefers not to), in ottawa

Prototype I



Hardware

Main Unit



Portable Unit





Software

🛃 tempaudio.py - D:\Programs\Python\Python37-32\tempaudio.py (3.7.0) — 🗆 🗙	Neglect Function	Call Connection Function
	Check if "Stop signal" received:	
File Edit Format Run Options Window Help	While Situation 2 == false	Server Function:
import speech_recognition as sr	If "ok button" & "Stop signal" == false	systemcount = systemcount + 1
-	safecount = safecount + 1	While systemcount < 3:
r = sr.Recognizer()	audiocount = safecount/3	While Flag = False and count < 3:
	If safecount > 3 and audiocount < 3	Check if connected to portable unit:
with sr.AudioFile('D:/Users/Ethan Chan/AppData/Local/Google/Cloud SDK/sf test.fl	Fise	If yes:
audio = r.record(source)	Play sound	Call Audio function
		If not:
a = r.recognize google(audio, language='en-US')		count = count + 1
print(a)	safecount = safecount + 1	Flag = False
	audiocount = safecount/3	Turn large indicator red
🚱 Python 3.7.0 Shell — 🗆 🗙	If safecount > 3 and audiocount < 3 Increase motor1 by 1 factor	Red small indicator beings blinking every 5 seconds
File Edit Shell Debug Ontions Window Heln	Else	Audia Eurotian
The Fair and French Change Link	Play sound	Audio Function.
Python 3.7.0 (V3.7.0:1819665093, Jun 27 2018, 04:06:47) [MSC V.1914 32 Bit (Inte	Else if "Stop signal" == true and "ok button" == false	while Flag I = False
1)] on win32	safecount = safecount + 1	Check if there is noise:
Type "copyright", "credits" or "license()" for more information.	audiocount = safecount/3	If yes:
>>>	If safecount > 3 and audiocount < 3	Is the noise = "hey" or "help"?
======================================	Increase motor1 by 1 factor	If yes:
hey	Play sound	Call Server Function
>>>	r kay oounu	If not:
======================================	Else if "ok button" & "Stop signal" == true	Flag1 = False
testing 1 2 3	Stop Motor1, sound and indicator	If not:
>>>	Call Connection Function	Flag1 = False



Bill of Materials

Retailer	Item name & description	Cost per Unit (CAD\$)	Number of Items	Total Cost (CAD\$)
Makerstore	Microphone	9.00	1	9.00
Alessandro	Vibrating Motor	Free	2	Free
Makerstore	PCB Mount Mini Speaker	4.00	1	4.00
Ethan	Battery Connector	0	1	0
Makerstore	LEDs	0.60	5	3.00

Makerstore	Protoboard		1	
Walmart	Batteries (9V)	4.98	1	4.98
Makerstore	Resistors	-	3	
CanaKit	Raspberry Pi Zero W board	12.95	1	12.95
CanaKit	Raspberry <mark>P</mark> i Zero W Kit	32.95	1	32.95
CanaKit	Sd card	9.00	1	9.00
Makerstore	Buttons (Tactile button switch)	5.00	3	15
	Total Cost			89.88

Project Plan

ask Name	 Duration 	👻 Start 👻	- Finish 😽	 Predecessors 		Add New Column	.06 09 12 15 18 21 24 27	30 03 06 09 12 1	5 18 21 24 27 30 02 05 0
nitiation									
PD A: Team Contract	5 days	Wed 20-09-09	Tue 20-09-15		Alessandro		Alessandro		
Planning									
Setting Project Scope & Goals	4 days	Wed 20-09-16	Sun 20-09-20		Ayesha		Ayesha		
Budget	21 days	Sun 20-09-20	Fri 20-10-16		Aunonto				Aunonto
Communication plan	12 days	Wed 20-09-16	Thu 20-10-01		Ethan			Ethan	
Risk Management plan	12 days	Thu 20-10-01	Fri 20-10-16		Dieudonne				Dieudonne
Project plan (PD A & PD C)	16 days	Wed 20-09-09	Wed 20-09-30		Alessandro			Alessandro	
Execution									
PD A: Client Meeting preperation	5 days	Wed 20-09-09	Tue 20-09-15		Ayesha		Ayesha		
Client meet 1	1 day	Tue 20-09-22	Tue 20-09-22		Aunonto		Auno	nto	
PD B	0 days	Thu 20-09-24	Thu 20-09-24	2	Ethan		🍲 09-2	4	
Needs identification and metrics	1 day	Wed 20-09-23	Wed 20-09-23	11	Dieudonne		📋 Dieu	donne	
Benchmarikng and specifications	1 day	Wed 20-09-23	Wed 20-09-23		Alessandro		Ales	sandro	
PDC	1 day?	Thu 20-10-01	Thu 20-10-01	12	Ayesha			n	
Introduction	1 day	Wed 20-09-30	Wed 20-09-30		Aunonto		1	Aunonto	
Project Plan Update	4 days	Fri 20-09-25	Wed 20-09-30		Alessandro			Alessandro	
Conceptual design	4 days	Fri 20-09-25	Wed 20-09-30		Ayesha			Ayesha	
Feasibility Study	4 days	Fri 20-09-25	Wed 20-09-30		Ethan			Ethan	
Lifelong Learning	4 days	Fri 20-09-25	Wed 20-09-30		Dieudonne			Dieudonne	
Conclusion	1 day	Wed 20-09-30	Wed 20-09-30				1	L	
Client meet 2	1 day	Tue 20-10-06	Tue 20-10-06		Alessandro			Alessar	ndro
PD D	1 day?	Thu 20-10-08	Thu 20-10-08		Ayesha				
Project Plan Update	1 day	Tue 20-10-06	Tue 20-10-06		Alessandro			Alessan	dro
Summarize Client Feedback and	1 day	Tue 20-10-06	Tue 20-10-06		Aunonto			Aunont	0
Critical Product Assumtions									
Bill of Materials	1 day	Tue 20-10-06	Tue 20-10-06		Dieudonne			Dieudor	nne
Introduction	1 day	Tue 20-10-06	Tue 20-10-06		Ethan			Ethan	

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Client meet 2	1 day	Tue 20-10-06	Tue 20-10-06		Alessandro	Alessandro
PD D	1 day?	Thu 20-10-08	Thu 20-10-08		Ayesha	1
Project Plan Update	1 day	Tue 20-10-06	Tue 20-10-06		Alessandro	Alessandro
Summarize Client Feedback and Critical Product Assumtions	1 day	Tue 20-10-06	Tue 20-10-06		Aunonto	Aunonto
Bill of Materials	1 day	Tue 20-10-06	Tue 20-10-06		Dieudonne	Dieudonne
Introduction	1 day	Tue 20-10-06	Tue 20-10-06		Ethan	Ethan
Conclusion	1 day	Tue 20-10-06	Tue 20-10-06		Ayesha	Ayesha
Detailed design	0.5 days	Fri 20-10-02	Fri 20-10-02		Aunonto	▶ Aunonto
<pre>4Prototype 1</pre>	3.5 days?	Fri 20-10-02	Wed 20-10-07	29		
 <i>▲</i> Software	3.5 days?	Fri 20-10-02	Wed 20-10-07			
Wifi Module	2 days	Fri 20-10-02	Mon 20-10-05		Ethan	Ethan
Messaging Module	2 days	Fri 20-10-02	Mon 20-10-05		Ayesha	Ayesha
Speech to Text Module	2 days	Fri 20-10-02	Mon 20-10-05		Aunonto	Aunonto
 ⊿Housings	3 days?	Fri 20-10-02	Tue 20-10-06			
Main Unit	1.5 days	Fri 20-10-02	Mon 20-10-05		Alessandro	Alessandro
Portable Unit	1.5 days	Mon 20-10-05	Tue 20-10-06		Alessandro	Alessandro
Testing	1 day	Wed 20-10-07	Wed 20-10-07	30,31,32,33,34,35	Ayesha	T Ayesha
PD E: Project progress presentatio	n 1 day	Thu 20-10-15	Thu 20-10-15		Ethan	<u> </u>
Project Plan Summary	0.2 days	Fri 20-10-09	Fri 20-10-09		Alessandro	Alessandro
Client Feedback Summary	0.5 days	Fri 20-10-09	Fri 20-10-09		Aunonto	Aunonto
Summarize Previous Deliverables	1 day	Mon 20-10-12	Mon 20-10-12		Ayesha	Ayesha
PD F: Buissness Model	1 day	Thu 20-10-22	Thu 20-10-22			<u> </u>
Choosing Our Buisness Model	0.2 days	Fri 20-10-16	Fri 20-10-16		Ethan	Ethan
Creating Buisness Canvas	1 day	Mon 20-10-19	Mon 20-10-19		Dieudonne	Dieudonne
Update Project Plan	0.5 days	Tue 20-10-20	Tue 20-10-20		Alessandro	Alessandro
Client meet 3	1 day	Thu 20-10-01	Fri 20-10-02		Dieudonne	II Dieudonne

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Manufacturing	3 days	Mon 2	0-10-26 V	Wed 20-1	10-28 60		Alessar	ndro							Alessandro							
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Future Plan for Prototypes



- Develop fully functioning comprehensive prototype
- Complete by October 30th
- Update models using client feedback
- Complete development of software modules



Lifelong Learning

- Problem Identification
- Positive Feedback
- Elimination and Addition of prospects
- Goals met



Thank You For Your Time!



Neglect Function Check if "Stop signal" received: While Situation 2 == false

> If "ok button" & "Stop signal" == false safecount = safecount + 1 audiocount = safecount/3 If safecount > 3 and audiocount < 3 Increase motor1 by 1 factor Else Play sound

Else if "Stop signal" == false and 'ok button" == true safecount = safecount/3 if safecount > 3 and audiocount < 3 increase motor by 1 factor Else Play sound

testing 1 2 3

>>>

Else if "Stop signal" == true and "ok button" == false safecount = safecount + 1 audiocount = safecount/3 If safecount > 3 and audiocount < 3 Increase motor1 by 1 factor Else Play sound

Else if "ok button" & "Stop signal" == true Stop Motor1, sound and indicator Situation2 = true Call Connection Function

🚱 tempaudio.py - D:\Programs\Python\Python37-32\tempaudio.py (3.7.0)			\times
File Edit Format Run Options Window Help			
import speech_recognition as sr			~
r = sr.Recognizer()			
<pre>with sr.AudioFile('D:/Users/Ethan Chan/AppData/Local/Google/Cloud audio = r.record(source)</pre>	SDK/s	f_tes	t.fl
a = r.recognize_google(audio, language='en-US') print(a)			
🕞 Python 3.7.0 Shell	_0		×
<u>File Edit Shell Debug Options Window H</u> elp			
<pre>Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.19: 1)] on win32 Type "copyright", "credits" or "license()" for more information. >>></pre>	14 32	bit (Inte \land
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hey			
>>> ========== RESTART: D:\Programs\Python\Python37-32\tempaudio.py			



Call Connection Function

Server Function:

systemcount = systemcount + 1 While systemcount < 3: While Flag = False and count < 3: Check if connected to portable unit: If yes: Call Audio function If not: count = count + 1 Flag = False Turn large indicator beings blinking every 5 seconds

Audio Function:

While Flag1 = False Check if there is noise: If yes: Is the noise = "hey" or "help"? If yes: Call Server Function If not: Flag1 = False If not: Flag1 = False