

### G Meeting #1

Date/ time: 10/19/2021 at 10:00 - 11:00

Location: Rhodes 501

Attendees: Alex Davison, Ram, Yugo, Andrew, Janet, Salsal

Agenda: Intro, Vision, next steps

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### S Meeting#: 1 (Elderly Virtual Assistant: **EVA**)

Date/ time: 10/22/2021 at 11:15

Location: TUC

Attendees: Alex Davison, Ram, Yugo, Andrew

Agenda: Introductions, Roles, Schedules, Parts, Next steps, Contract

### **Roles:**

Alex Davison: SW Design/Development, Team Facilitator

Ram: SW Design/Development

Yugo: Mechanical Design Specialist

Andrew: Researcher, Consultant, TBD

### **Requirements:**

Voice Recognition and needs to be able to talk back

Image recognition: needs to be able to read the pill bottle label and store the information

Needs to have some sort of internal clock to remind patients when to take their meds

Confirm with patients if they took their medicine, and if not remind again

Needs to be able to answer whether they took their pills or not

Show bottles on the screen (from a picture stored in initial scan) to help them know which one to take

Confirm whether or not they're holding the right bottle or not

Be able to report monthly on when they're mes, if they're meds, etc, etc.

Prescription refill reminder

### **Nice to haves:**

Videos of patients taking pills

Electronic Medical Records

Memory/Mind Trainings

### **To Do:**

**Schedule**

**Contract**

**Parts / Cost**

### **Questions For meeting:**

What's the End goal? What does Dr. Salsal want to do with this in the end?

We'll eventually need pill bottles to test with.  
Are there QR codes on the pill bottles / barcodes?

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G Meeting#: 2 (**EVA**)

Date/ time: 10/28/2021 5:00 - 6:30

Location: Rhodes 501

Attendees: ALL

Agenda: Fleshed out vision, talked about next steps and expectations etc.

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S Meeting#: 2 (**EVA**)

Date/ time: 10/29/2021 at 11:00

Location: TUC

Attendees: Alex Davison, Ram, Yugo

Agenda: Dr. Sulsals email, 3D printing, Need to finalize parts for next week / get parts ordered for next meeting, Need slide for next meeting, Ram and Alex to start working on code.

Yugo: solidworks interfacing with 3d, practice print, finding alexa show solid works files and tweaking appropriately.s

Ram/Alex: Need parts List finalized for next meeting.

Touch screen vs not touchscreen: touch screen in order to enter passcode to access medical records... or we could just use voice (as in saying a passcode, not tracking how voice sounds / what face looks like)

Camera, Microphone, Speaker(s), Rasp Pi 4.

Do we have an operating system onto raspberry pi?

**We'll need a raspberry pi kit to install the operating system** (look to first file from Ram (Project A), comes with SD card to load OP SYS onto)

Common google sheet for VOICE.

Yugo: solid works, rough sketch, 3D research.

Alex/Ram: Parts and speech

Voice Recognition and implement medications that Sulsal sent

Questions:

How do we go about printing at 1819?  
Touch screen vs not touchscreen?  
On pill bottles does it list the count of pills?  
When can we get some pill bottles?  
Do they all come in bottles?

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G Meeting#: 3 (**EVA**)  
Date/ time: 11/5/2021 5:00 - 6:00  
Location: 567 Rhodes  
Attendees: ALL  
Agenda: Parts needed, Speech Demo, Yugos findings, First Prototype EVA Summary, etc.

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S Meeting#: 3 (**EVA**)  
Date/ time: 11/10/2021 at 11:15  
Location: TUC  
Attendees: Alex Davison, Ram, Yugo, andrew  
Agenda: Sulsal Parts, Split SW, Yugo updates,

SW Split

Alex: Voice Recognition, UI, then look into Online Databases  
Ram: Image detection, then look into Online Databases

PT: Peloton camera for later on.  
Facebook portal :: comparable applications

Would need declared as a medical device/ certified, that way insurance can pay for it?  
Hippa

Portability: if so we'd need an external battery

Ram to get in touch with old Image

For the startup Process, adding contacts  
How would calling work on the device?

Alex: Boot up process / voice demo (flesh out) (look into accents)  
Ram: look into image rec

Andrew: Look at FDA guidelines.

Yugo: I'll Friday, I'll send you measurements on Friday, Any research Pill Dispensing

Questions:

ask salsal about listing priorities / what's expectations.

Feasibility / achieve ability by April.

1.0 deliverables.

Goals by new year

Goals by April

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G Meeting#: 4 (**EVA**)

Date/ time: 11/18/2021 2:00 - 3:00

Location: 567 Rhodes

Attendees: ALL

Agenda: Speech Demo, Image Recognition Hurdles, Rough Sketches

Takeaways:

- Having user set down bottle and have image scan it instead of the user hold it

- Machine can't recognize medicine names that aren't regular english language words.

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S Meeting#: 4 (**EVA**)

Date/ time: 11/23/2021 at 1:30-2:00

Location: REMOTE

Attendees: Alex Davison, Ram, Yugo, andrew

Agenda: Parts Drop off, Cad modeling / 3d printing, SW updates / plan for until next meeting.

I'd like to have a Cad model by next meeting so that we can get it printed and have something for the 16th (if we meet) or new years.

**Need to discuss camera set up.** What would be the ebay layout for the camera?

The Camera needs to be able to scan the bottle, but also record the user taking their meds.

I think on top for now...

Discuss Salsal's document changes for final deliverables

Why not software on Alexa device -

