

Grant High School Team PSU Innovation Challenge Journal

February 19
Meeting #1
At Aunt Tillie's Deli



Introductions-- contact info on other doc

Doug Mandell
High School coordinator and adult supervisor

Paul Cho
College Mentor

Scribe-- Cory
Creator of the Docs folder-- Hannah
Photos will be taken at every meeting by anyone/everyone

Timeline

- March 1, visit to an elderly home, details TBA
- 1.5 hour visit, 3-4 hour block of time for visit and meeting
- March 7, project proposal due
 - April 18, journal and poster due
 - May 3, project presentation and judging
- PSU Visit Weekends available
March 15-16, 22-23

6 judging categories

Scope and depth
Creativity
Presentation
Teamwork
Technological focus
Human impact

Plus

Audience favorite

Ideas

tangible impact when pressing screen
apps to help with memory
app to teach the basics of mobile/tablet
health problems because of American lifestyle

- motivate to exercise
- why don't people work out?

bluetooth problems
doesn't have to be phone/tablet related

For next meeting

Talk to elderly people
Make 5+ questions to ask

- What would make your life easier?

March 1
Meeting #2
At Care Center East



Problems we saw:

- Mobility/physical limitations
 - unable to hold things
 - can't move around well on their own
 - jerking movement of wheelchairs
 - spinning the chair around
 - can't see well enough to know when the phone is going off
- Mental limitations
 - forgetfulness

Ideas

virtual apps for cooking
detachable armrests
clock with voice recognition

- familiar/programmable voice
- clap-on, clap-off clock alarm
- app to program alarm
- remote/clicker with a screen for programming clock
 - no need for expensive smart device
- necklace or microphone to speak into to program clock alarm
 - gps/locator for clicker or microphone/necklace
- easily change time of alarms
- watch instead of wall-mounted clock

Our idea doesn't have to be original. It can be a twist on an idea

Link to Isak's forum website: <http://www.psuinnovationgrant.host22.com> (shut down)

For next meeting

research idea

meeting at Wed. tutorial in Mr. Mandell's room 202

March 5

Meeting #3

Mr. Medley's Room

Research on programmable alarm clocks

Moshi Voice Control <http://alarm-clocks-review.toptenreviews.com/moshi-voice-activated-review.html>

Reminder Rosie
<http://reminder-rosie.com/>

Ivee Digit voice
<http://www.helloivee.com/>

We've reached a decision:
the programmable clock

Ideas:

Website for those without smartphones or tablets

For Next Meeting

Specify our idea

Narrow down features

March 8
Meeting #4
Fleur de Lis

Reported progress to mentors and Mr. Mandel.

Formed list of topics / subjects to be used in the formation of the project proposal:

- problem we're solving
- product w/ product features
- reason / how it will solve the problem
- how it's different

For next meeting

- agree on core features of device
- begin proposal / divvy up the subjects for the proposal

REMINDER: PROPOSAL DUE THIS FRIDAY, MARCH 14

Next meeting: Tuesday tutorial (3.11.14 // 2:20-3:05) in Mr. Mandell's room (202)

March 11
Meeting #5
Room 202

Final list of product features:

- Stand/Wall Mounted digital clock
- the clock is for scheduling alarms for user
 - clap-on, clap-off clock alarm
 - Voice Recognition
 - mobile app and website to program alarm for the user
 - remote/clicker with a microphone for inputting speech to clock (two buttons one to toggle alarm and one to toggle microphone also detachable strap)
 - no need for expensive smart device
 - button on the clock to make the clicker beep
 - easily change time of alarms

Tasks:

Write your section of the proposal by **Wednesday** and edit the pieces of others' on Thursday.

March 18
Meeting #12
Room 202



Proposal feedback:

Answers to developing questions given by judges:

Scope & Depth:

You did a great job of considering many angles of this problem. Backing up, how did you conclude that elders struggled to read their clocks?

As we interviewed the residents, we took their responses to our questions and their reactions into account when we discussed the problems we saw at the end of the meeting (physical problem and mental problem)

Creativity:

In many ways this idea sounds similar to a smart watch. How, specifically, is your project different?

- Easier to read rather than small text
- Watches are not convenient for those with limited movement
- Can be used by multiple people, for those who do not live alone
- Watches are more for people who are constantly doing things, this is closer to the equivalent of a clock mixed with a calendar
- Easier to control than a small smartwatch

Human Impact:

*Can you describe the benefit of this technology to each of the different users you have identified?
How is this an improvement over their current processes (for example, managing a calendar)?
Physically ,challenged , soft voices, mentally challenged to remind people, and people with bad eyesight*

Users: elderly people, on their own or in a care facility; people who have limited mobility, sight, etc.

For the physically limited, allows them to use without having to move very far.

Technology focus:

*You did a great job of identifying the limitations elders face when interfacing with new technology.
Can you demonstrate how you'd balance all the functionality you'd like to build into an elder-friendly interface?*

- Simplistic interface (big buttons and switches)
 - (how to do simplistic calendar)
 - Voice commands make talking to the clock clear and simple
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April 6

Meeting #13

Atomic Pizza

Passed out liability waivers

Reminder of next deadlines:

- April 18 -- project journal and poster --- not a firm deadline
- April 22/23 -- Engineering building tour
- May 3 -- presentation

Names:

Clocktastic

Cocoon on google hangout

Isak's emulation on the clock, can access on a website.

Presentation:

- Everyone needs to speak.
- Make sure someone can answer the questions in q&a
- Practice the presentation.

- Fluidity, look like you're prepared.

Next meeting: Tuesday tutorial in Mr. Medley's room.

- Need a large piece of paper to sketch ideas for visual aspects.
 - Find out what the room/tech will look like. What are we walking into?
 - Come up with names for our product.
 - Next mentor meeting: Friday 11, 12:30 at atomic pizza or the Hollywood library conference room.
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April 8

Meeting #14

Mr. Medley's Room

Design for the clock:

hardware on the bottom with a piece of glass to project the numbers.

frontlit e paper

Wall mounted or freestanding-- similar to a picture frame.

Rounded corners with slight curve on smaller sides.

Reminder to say that it will include instructions

Cheatsheet for the clock with pictures

An alert button to click every day to confirm that you are ok.

Setting that will email people who care to say if you are not alright.

Draft of the poster by Friday before we meet with the mentors.

Isak will set up cacao and a hangout for everyone to work on.

April 15

Meeting #15

Mr. Mandell's room



Check in on progress:
no progress made on poster yet
Poster will be made in cacoo

In school field trip: this week, Friday
Hopefully in the college and career center
Check email for permission slip and bring to Mr. Mandell by tomorrow.

April 18
Meeting #16
College and Career Center

Worked on poster and presentation all day long

May 1
Meeting #17
Aunt Tillie's diner

Hannah is suggesting to make a PowerPoint with continuous slides that move along with the speaker. She's uploading an example of a presentation made in the same style.

Four main focuses in presentation:
The problem: (Cory)
Features: (lask)

What's different: (Addison)

Conclusion: (Hannah)

**Remember to wear professional clothing.
