



Pilly your Phriend

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The Project

- **First Assignment:** Improve an existing product
 - ◆ Find improvements for something that you commonly use
- **Second Assignment:** Improve an existing product or a new product with a sketch
- **Third Assignment:** Create a prototype of your invention



July Calendar

	Week One	Week Two	Week Three	Week Four
Monday	Individual Designing stages	Assignment: Create a sketch of your invention/ product		Presentation Prep
Tuesday	Group Call with coworkers	Group Call with coworkers	Ask Coworkers for feedback on the invention, and list notable features	Presentation Prep
Wednesday	Assignment: Create a video of an existing product and improve it	First Group Call Together	Group Call with Kelly discussing product and receiving feedback	Presentation
Thursday	Group Call with coworkers	Group Call presenting our ideas	Group Call with coworkers	
Friday	Assignment: Choose an invention or find ways to improve an existing one	Final Idea Chosen: Pill Dispenser	Assignment: Personas and User Stories group brainstorm	Celebrate completion of work experience



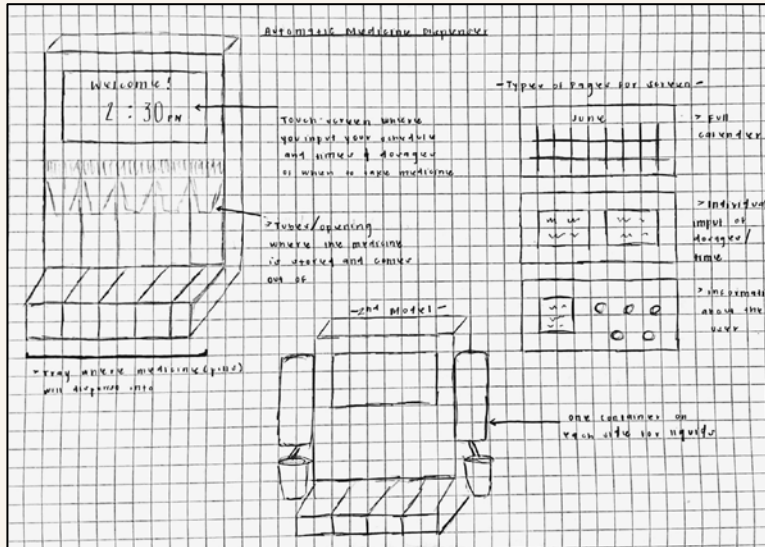
Brains At Work-Coming Together



Brains At Work-Coming Together

→ Automatic Pill Dispenser

- ◆ Combines the **organization** and **dispensing** aspects of our original ideas



- Will be automatically dispensed with notification system
- Similar to a coffee machine



Final Prototype



WELCOME

Friday, Jul

8:57

Please today ask to 3 p



Elderly

- People who live alone
- Have memory issues
- Alzheimer's, Dementia etc.



Caretaker

- Those who are not present with the patient 24/7



Relative

- Individuals who take care of family members and need extra assistance



Adults/Teens

- Teens who are recently diagnosed and need a reminder
- Juggling school/work, etc.



Retirement Centers

- Those who take care of the retired and have multiple patients to assist



Hospitals

- Those in special care who need to be monitored



Audience in Depth - User Stories

Caretaker: Sally works part-time at a retirement center where her job is to distribute the elderly's medication, which is over 50 patients total. In all her patients, there are different medications taken and needed, with different distribution times. She works from 8am to 3pm, regulating patients with alzheimer's. Sally worries that when she is absent her patients would forget to take their medication at the right time since they heavily rely on her. Also, with so many patients she wishes to have a more organized and efficient system.

Elderly: Betty Rose is a 67 year old woman, with multiple health issues, who lives alone and far away from her family. She regularly takes four different medications daily taken at different times of the day. She has ran into issues in the past, forgetting to take her medication, and at times taking extra accidental doses. With her health at risk, she wishes to find a solution to avoid forgetting to take her medication or extra doses.



Features

- Notifications

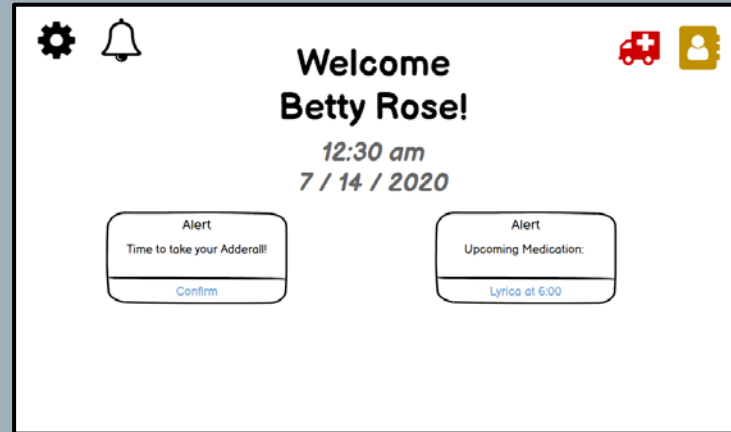
- Color changing screen
- Audio
 - Alarm/Notifications
 - Automated voice
 - Custom recording
- Phone app

- Internal components

- Can hold up to 10 medications
- Dispenser
 - Would be programmable by screen, and can be dispensed on a certain day and certain time

- Screen features

- Emergency 911 calling button
- Contacts and addresses along with phone feature
- Wellness tracker
 - Can be sent to contacts
- Bluetooth to connect to phone



Touchscreen - Balsamiq

(expired)



Final Product



Pilly your Phriend



- Pilly is your automatic pill dispenser which has:
 - Internal medication tubes for up to 10 different medications set to dispense
 - Easy to use interface to dispense at various times of the day
 - Multiple features for wellness and contact

Estimated cost: \$59.99



Future Plans

→ Version 2

- ◆ This would include a “Self-Serve” liquid medicine dispenser located on the side of the machine
- ◆ Microphone for voice commands
- ◆ Multiple languages available
- ◆ Camera to monitor and Video call

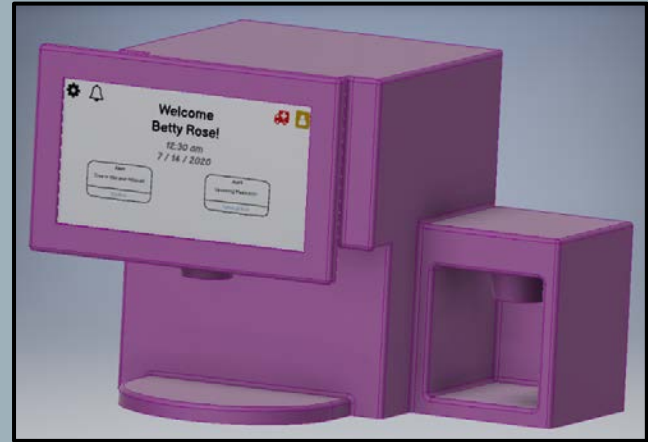
→ Pilly App

- ◆ Connected by Bluetooth
- ◆ Sync to multiple contacts

→ Make a smaller Versions

- ◆ Portable and travel sizes for those who need that extra reminder

→ Ideally would be covered by Health insurance



Thank You For Your Time!

