

THE COLLECTION OF HEALTHCARE ANALYTICS FOR LOVED ONES

Gordon Grado
Product Design Workshop
Fall 2014

USER INSIGHT



90 years old
Mother of four
Grandmother of 13
Suffered a stroke last year
Makes awesome muffins
Has a manhattan every evening

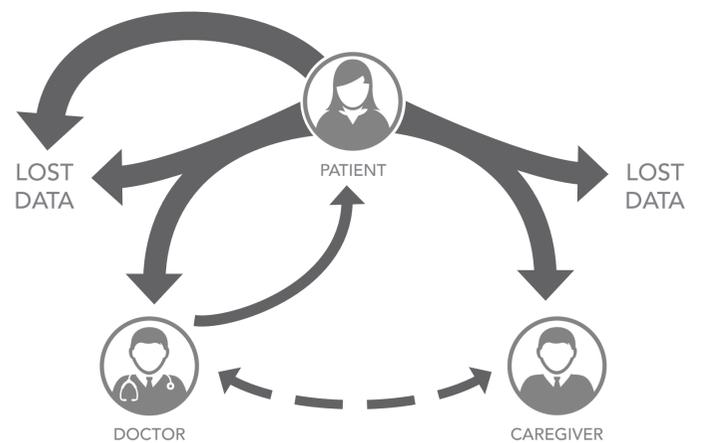
Dorothy



93 years old
Father of four
Grandfather of 13
Survivor of Lung Cancer
Never misses a Packers Game
Has a martini every evening

Fritz

Current Information Exchange



Stakeholder Insight



"If your Grandparents moved to Scottsdale we'd probably move too." - Aunt Ann (Caregiver)



"I can't rely on a patient to give me the full story. Based on the little information I receive I try to piece together the problem." - Radiation Oncologist

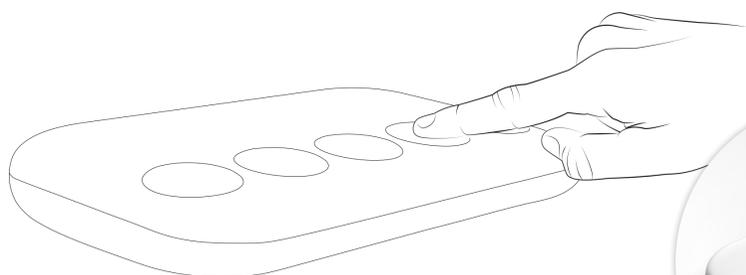


"If I could see how patients are doing day to day we would be able to catch problems before they happen." - Oncology Nurse

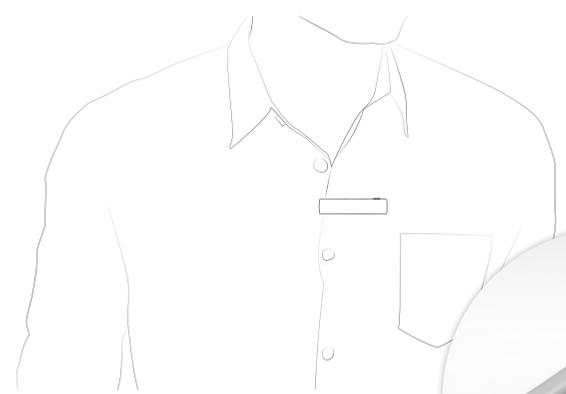
SOLUTION AND EXECUTION

The design consists of a discrete wearable sensor used to capture data such as heart rate, sleep pattern and activity level. This sensor has no interaction past the inclusion of one panic button in case of emergency. Since this piece of the system is physically small I wanted next to no user interaction to be included on the wearable piece.

The digital journal object visually requests information from users concerning food intake, medication usage, pain level and nausea. Since this criteria can be subjective, it is presented in a simple multiple choice fashion.



The digital journal actively tracks users food intake, medication usage, pain level and nausea.



The wearable sensor passively tracks users heart rate, sleep pattern and activity.



The digital journal would live in a centralized space in the home, such as my grandparents kitchen. Throughout the day as my grandparents pass by, their wearable sensors would buzz letting them know that the digital journal requires information from them. The belief is the user is more likely to report accurately when interacting with a device at the moment of question rather than reporting to their doctor days or weeks later.

The form of the digital journal came through testing physical prototypes with my grandparents and pulling inspiration from the objects in their home.

The original design included a metallic touch screen with a back lit display. I quickly learned that my user group responded better to physical buttons and a bright metallic object would stick out like a sore thumb in my grandparents home.