GroundMemo
Intelligent Home System for Seniors with Memory Loss

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Overall Problem

Senior has mild memory loss issue
Home as the primary design space
Influence on the daily routines and tasks
Caretaker and family member as the stakeholders
Design Research

Memory loss is diverse
Familiarity is key
Caretakers want peace of mind
6 Tasks

- Keeping track of where things are
- Giving peace of mind to traveling caretakers
- Helping remember routine activities such as medicine
- Allowing family members to set reminders
- Checking up after a fall
- Having your info automatically sent to a doctor
### 3 Design Sketches

**Television Notification System**
- Visual and audio reminders
- Replacing ads with reminders
- Projecting behind the TV
3 Design Sketches

Home Sensor System

- Multiple sensors
- Interactive photo album
- Detecting emergencies and alert the caretaker/family members
3 Design Sketches

Smart Table

• Voice assistant
• Virtual paper and a smartpen
• Detecting the use of medication
Scenario 1: GroundMemo helping with reminders
Selected Design Storyboards and Tasks

Scenario 2: GroundMemo notifying caretakers when wandering occurs
Key Takeways

- Research drives the iterative design
- Actively ask for the critique and feedback
- Design should be inclusive and intuitive
- Design within the user’s context
- Less is more
Thank you.
Questions?