A solution for every home

TEAM

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Source: https://gayswithkids.com/wp-content/uploads/2015/03/guy-cleaning.jpg

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MEET DAVE

28 Year Old
Surgery Resident
Working 10 to 16 hour shifts

Source: https://gayswithkids.com/wp-content/uploads/2015/03/guy-cleaning.jpg

“It’s really hard to keep the house clean and organized when I don’t have much time.”

55% of Americans point to an unclean home as a source of stress[1]

1 - http://www.huffingtonpost.com/2013/05/22/home-organization-stress-survey_n_3308575.html

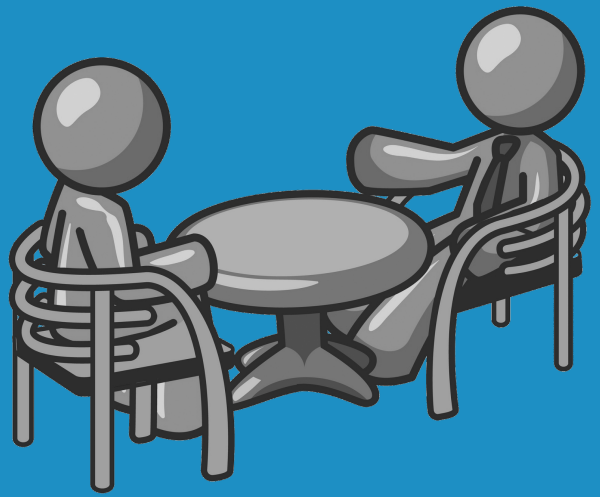
An unclean environment has negative health outcomes

Where do we begin?

Semi-structured Interview

4 Students & Professionals

Conducted In-Context



Source: http://blogs.baruch.cuny.edu//scdc/files/2011/11/dreamstime_l_3291533.jpg

Landfill
GREEN
FRESH
TWININGS

What did we find out?

Source: http://b.fastcompany.net/multisite_files/fastcompany/poster/2013/03/3006368-poster-1920-githubs-frustration.jpg

Cleaning has internal and external triggers,
and it is not a priority

People tend to clean in bursts,
and they only clean what they own

How can we help out?

Identify Tasks

Glance at the overall cleanliness of the house

Access cleaning history for every room

Prevent a messy home when receiving visitors

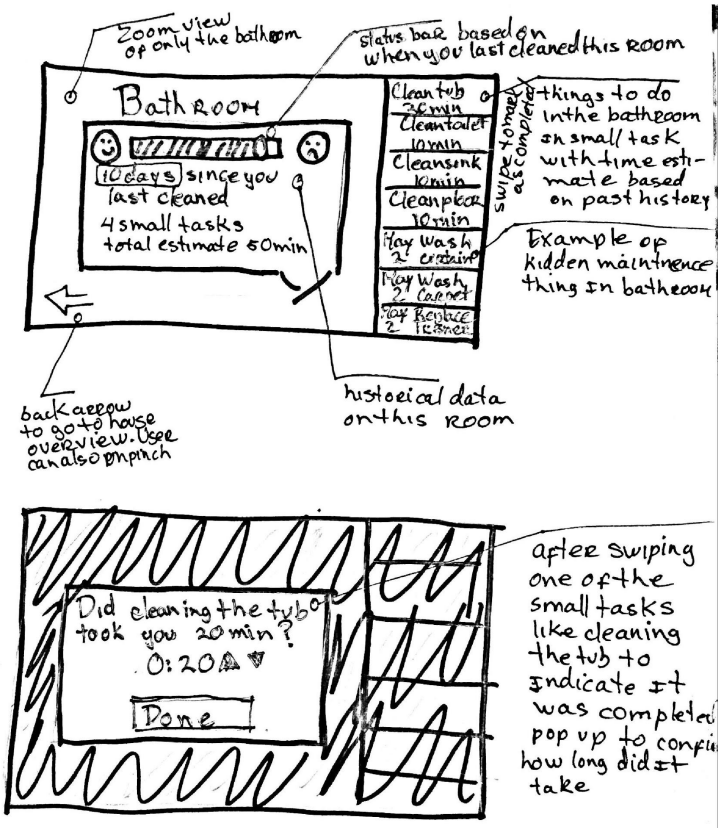
Promote cleaning activities during idle times

Suggest cleaning activities

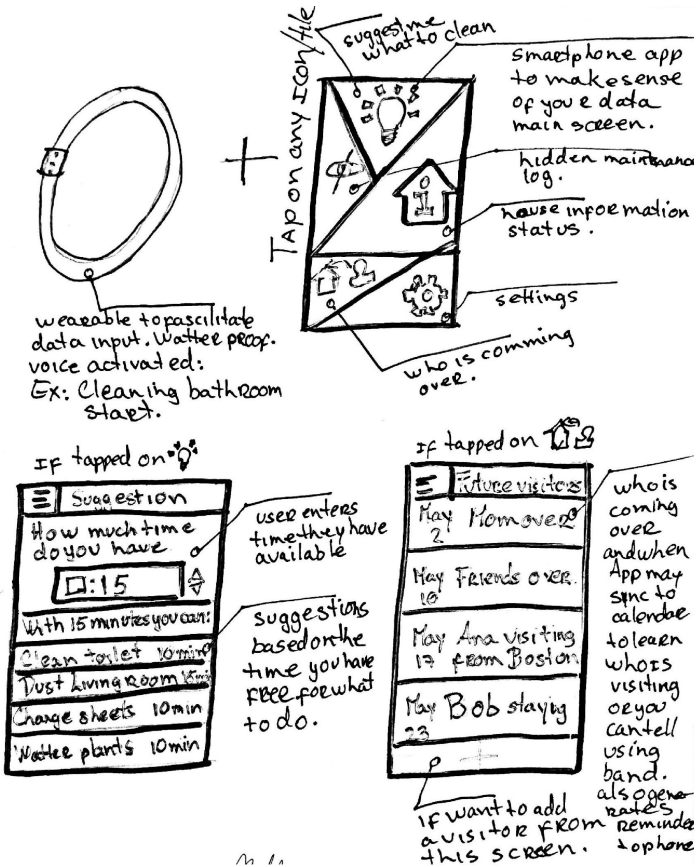
Identify general maintenance tasks

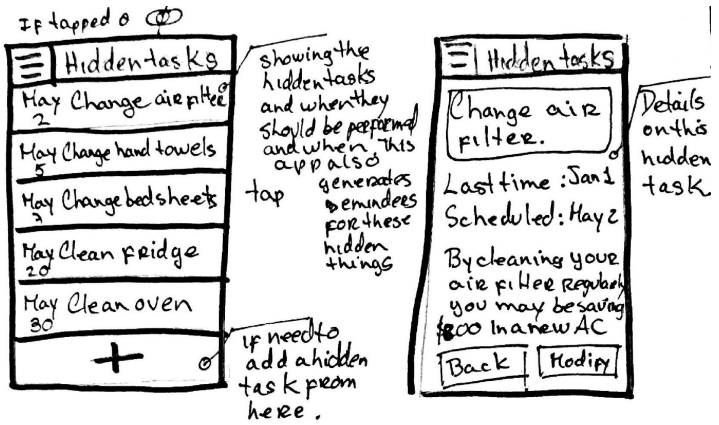
Design 1

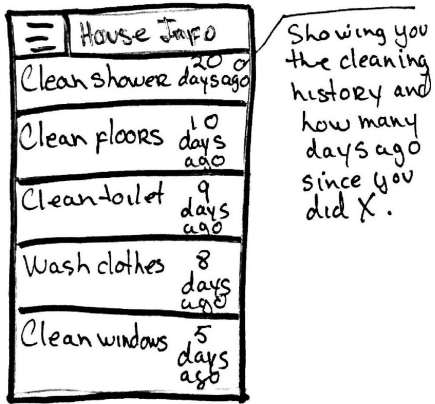
digital board in context. Shown in kitchen because for many this is the center of the home
blueprint with the overview cleaning state of the house
main dashboard.
Tap to select a room
Bedroom #1
Bathroom
Bedroom #2
Kitchen
Living Room
3 Homecoming May over
3 Filter Change May
3 Fridge May cleaning
6 Friends May over
scrollable
notification panel showing when visitors are coming and hidden maintnence tasks to be done around the house.
add notification button for adding additional items.
Indicator of the cleaning state of a room.


Zoom view of only the bathroom
status bar based on when you last cleaned this room
Bathroom
10 days since you last cleaned
4 small tasks total estimate 50min
Clean tub 25min
Clean toilet 10min
Clean sink 10min
Clean floor 10min
May Wash 2' curtains
May Wash 2' carpet
May Replace 2' trimmer
swipe to mark as completed
things to do in the bathroom in small task with time estimate based on past history
Example of hidden maintnence thing in bathroom
back arrow to go to house overview. User can also pinch
historical data on this room
Did cleaning the tub took you 20 min?
0:20
Done
after swiping one of the small tasks like cleaning the tub to indicate it was completed pop up to confirm how long did it take

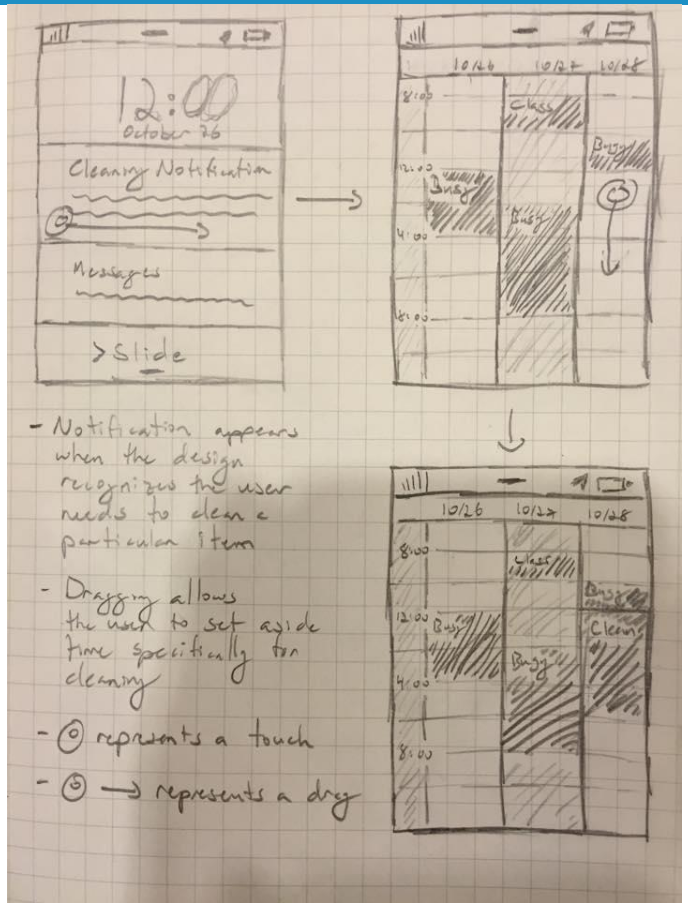
Design 2

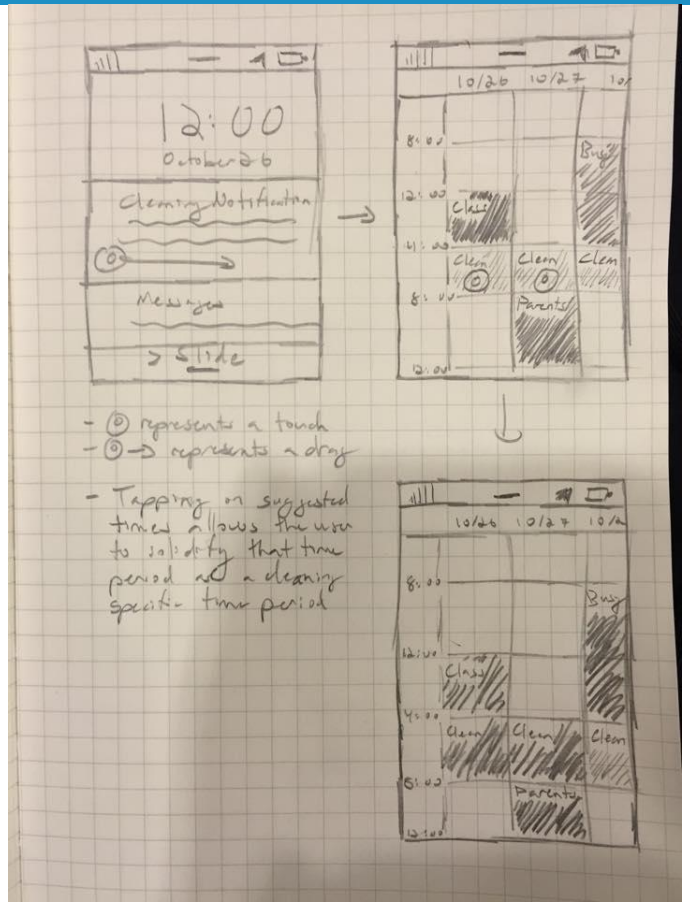

Tap on any icon/like
suggests me what to clean
smartphone app to make sense of your data main screen.
hidden maintenance log.
house information status.
settings
who is comming over.
wearable to pascilitate data input. Watter procx. voice activated:
Ex: Cleaning bathroom start.
If tapped on
Suggestion
How much time do you have
0:15
With 15 minutes you can:
Clean toilet 10min
Dust Living room 10min
Change sheets 10min
Watter plants 10min
user enters time they have available
suggestions based on the time you have free for what to do.
If tapped on
Future visitors
May Mom over 2
May Friends over 10
May Ana visiting 17 from Boston
May Bob staying 23
who is coming over and when App may sync to calendar to learn who is visiting or you can tell using band. also generates reminders 2 phone
If want to add a visitor from this screen.


If tapped on
Hidden tasks
May Change air filter 2
May Change hand towels 5
May Change bedsheets 3
May Clean fridge 20
May Clean oven 30
showing the hidden tasks and when they should be performed and when this app also generates reminders for these hidden things
tap
If need to add a hidden task from here.
Hidden tasks
Change air filter.
Last time: Jan 1
Scheduled: May 2
By cleaning your air filter Regularly you may be saving $200 in a new AC
Back
Modify
Details on this hidden task


House Info
Clean shower 20 days ago
Clean floors 10 days ago
Clean toilet 9 days ago
Wash clothes 8 days ago
Clean windows 5 days ago
Showing you the cleaning history and how many days ago since you did X.

Design 3


12:00
October 26
Cleaning Notification
Messages
> Slide
10/26
10/27
10/28
Class
Busy
Busy
Busy
- Notification appears when the design recognizes the user needs to clean a particular item
- Dragging allows the user to set aside time specifically for cleaning
- ⓞ represents a touch
- ⓞ → represents a drag

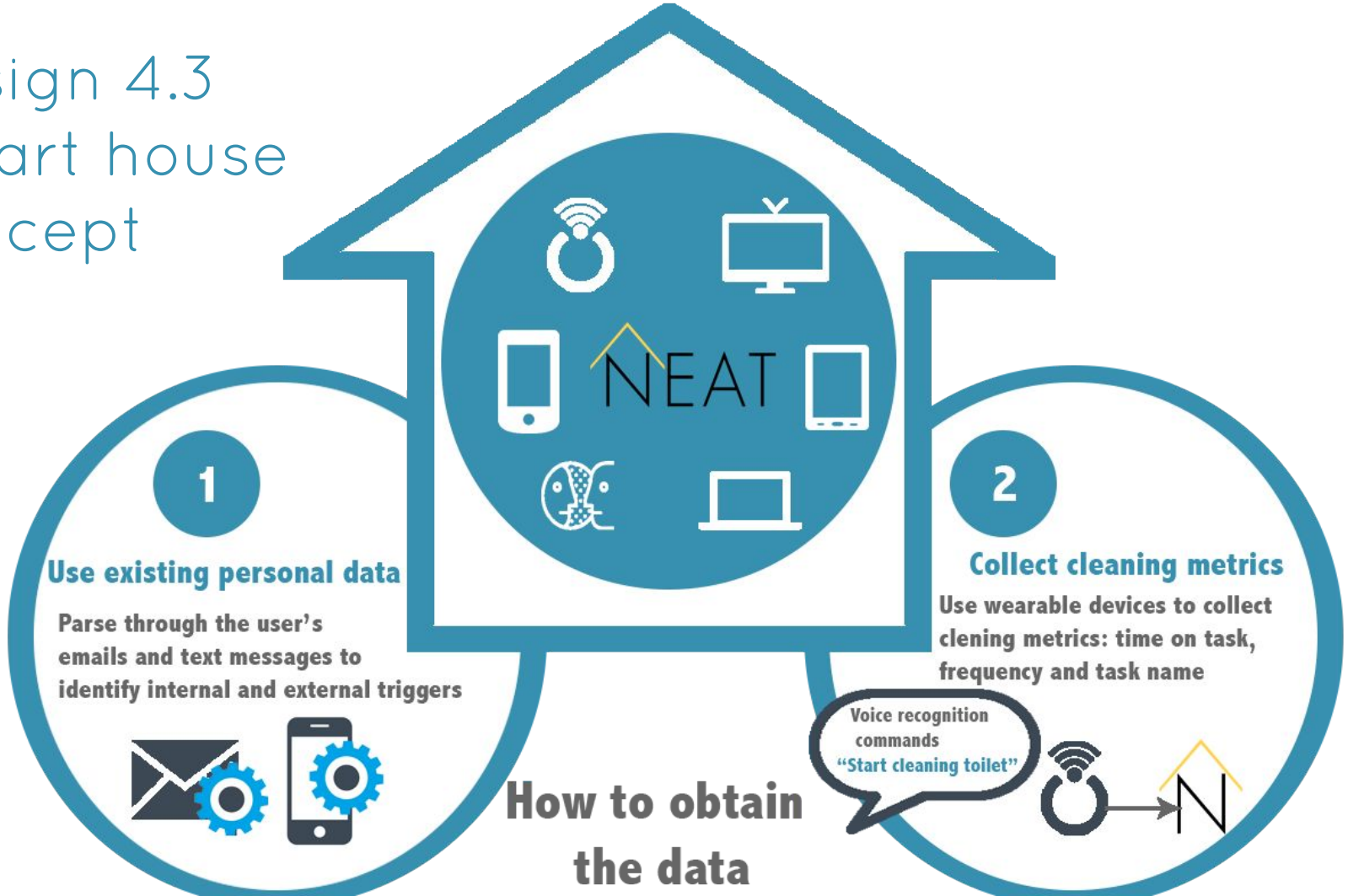

12:00
October 26
Cleaning Notification
Messages
> Slide
10/26
10/27
Busy
Class
Clean
Clean
Clean
Parents
- ⓞ represents a touch
- ⓞ → represents a drag
- Tapping on suggested times allows the user to solidify that time period as a cleaning specific time period

None were really *quite* there

Use what already gets people to clean

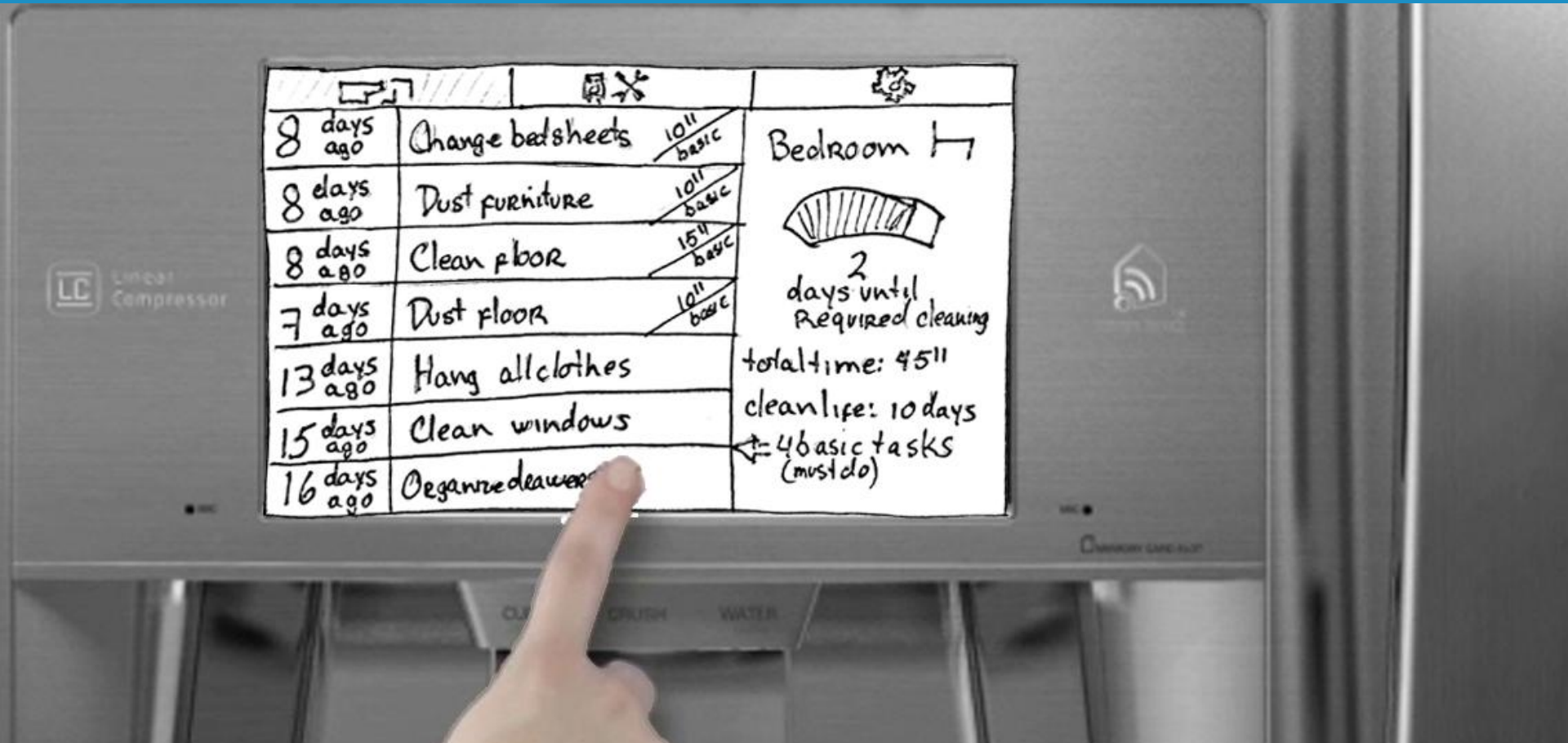
Internal and External Triggers

Design 4.3 Smart house concept

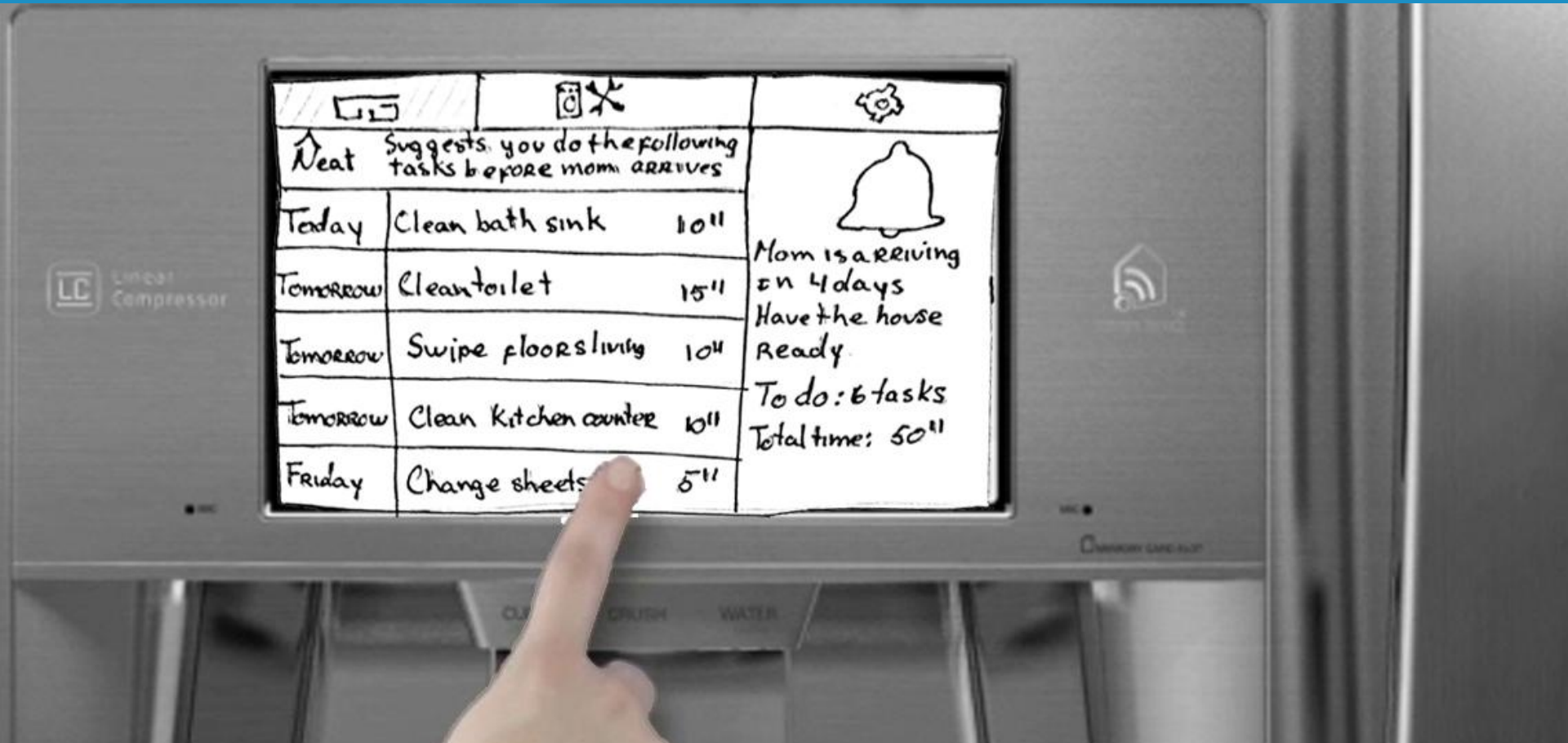


Glance at the overall cleanliness of the house

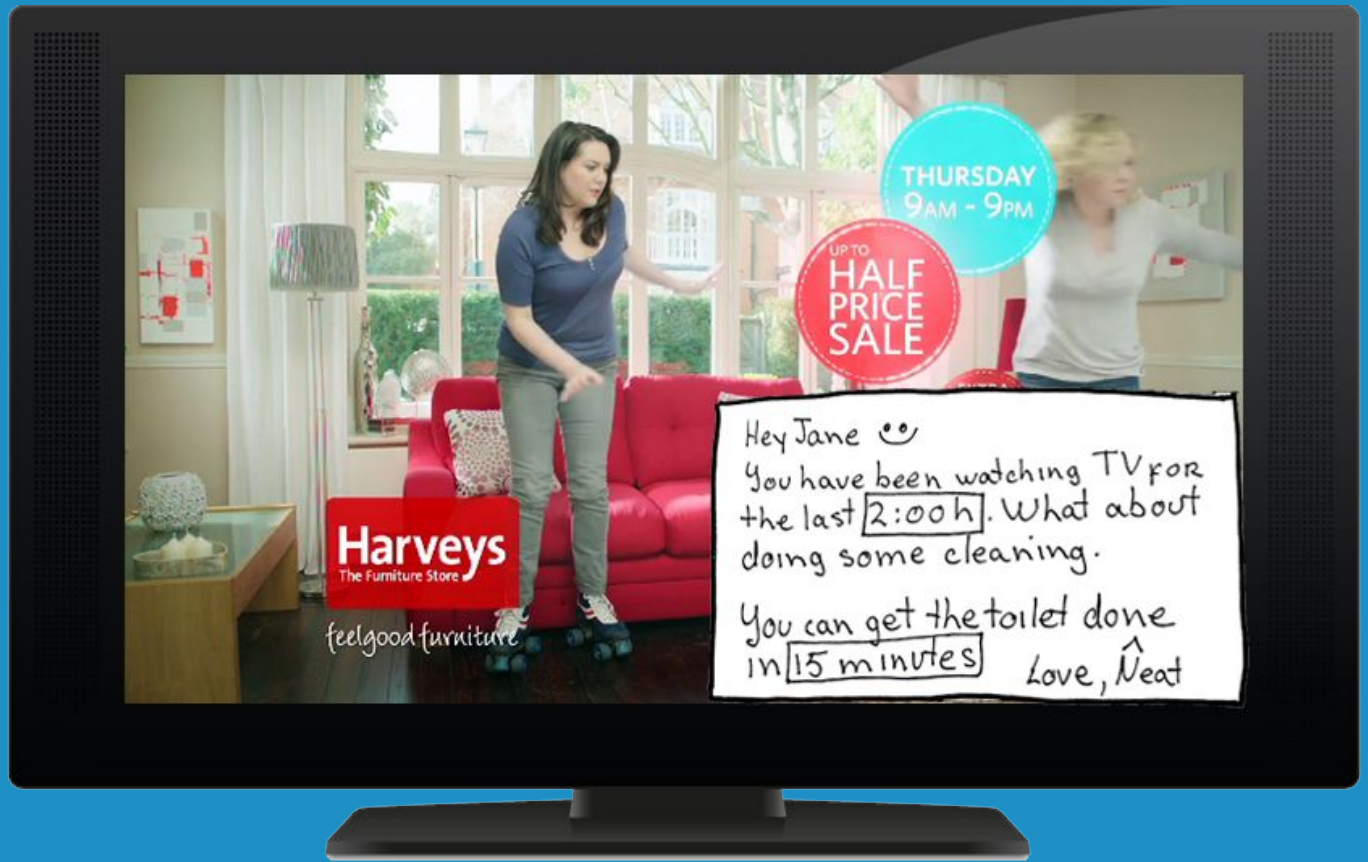
Access cleaning history for every room



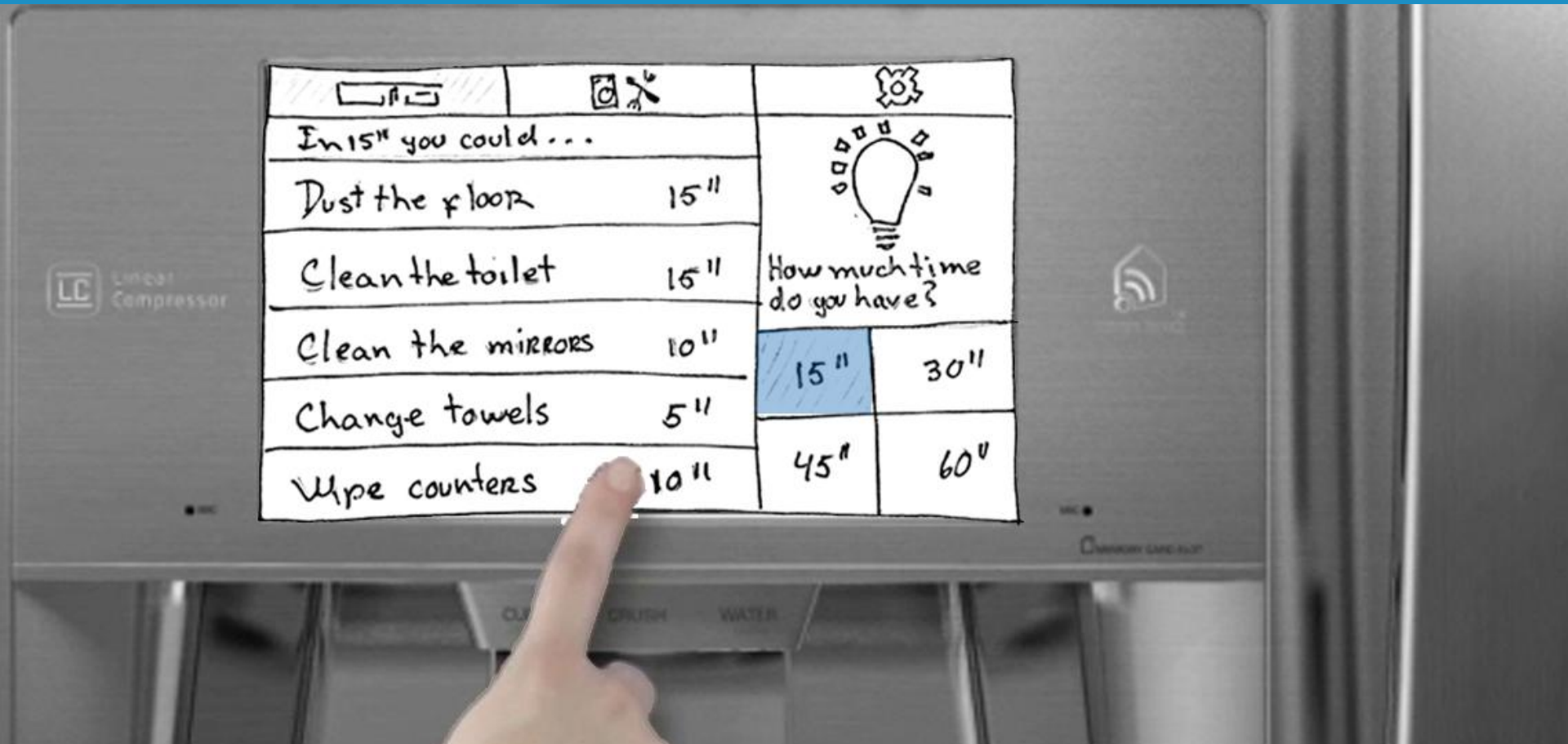
Prevent a messy home when receiving visitors



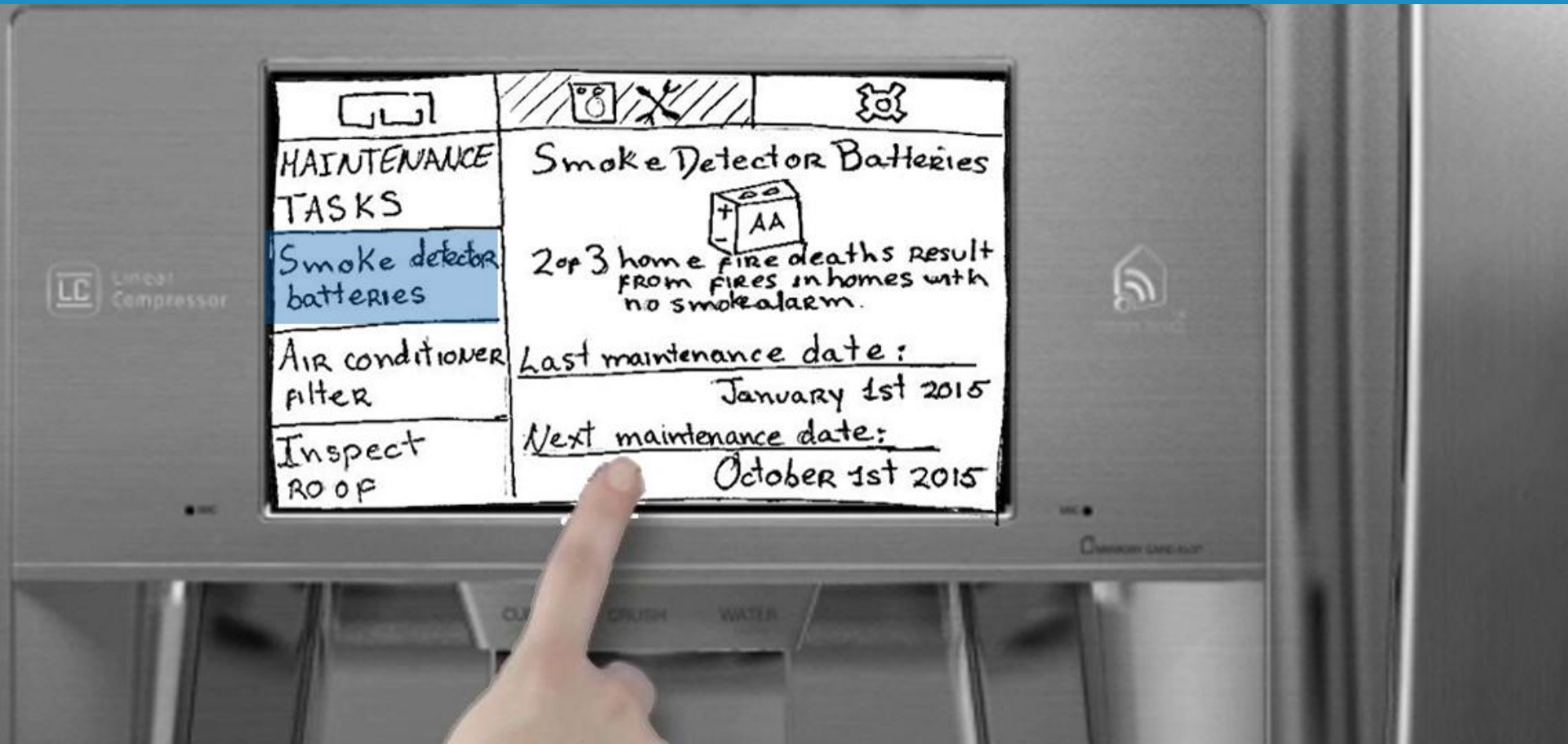
Promote cleaning activities during idle times



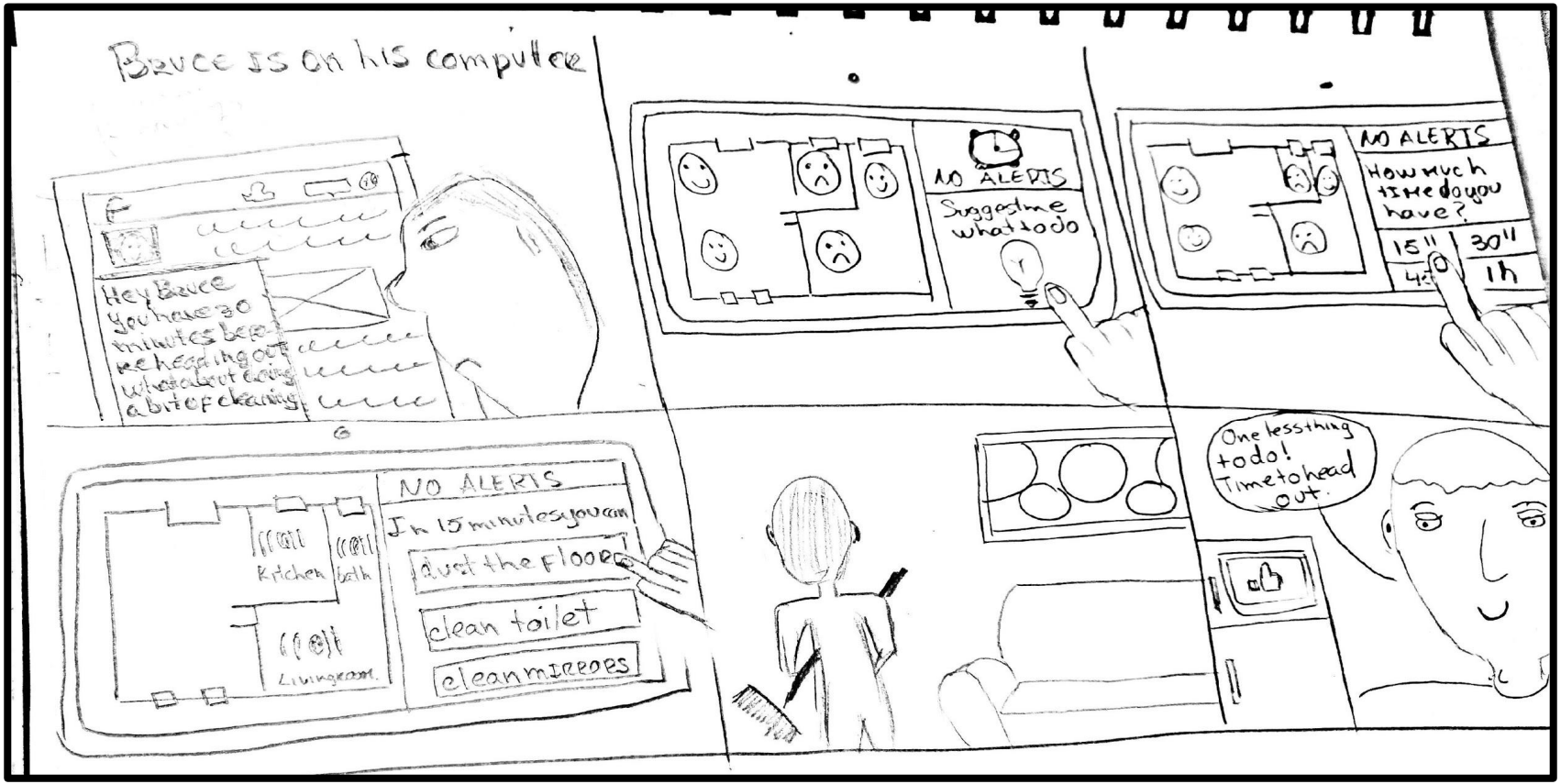
Suggest cleaning activities



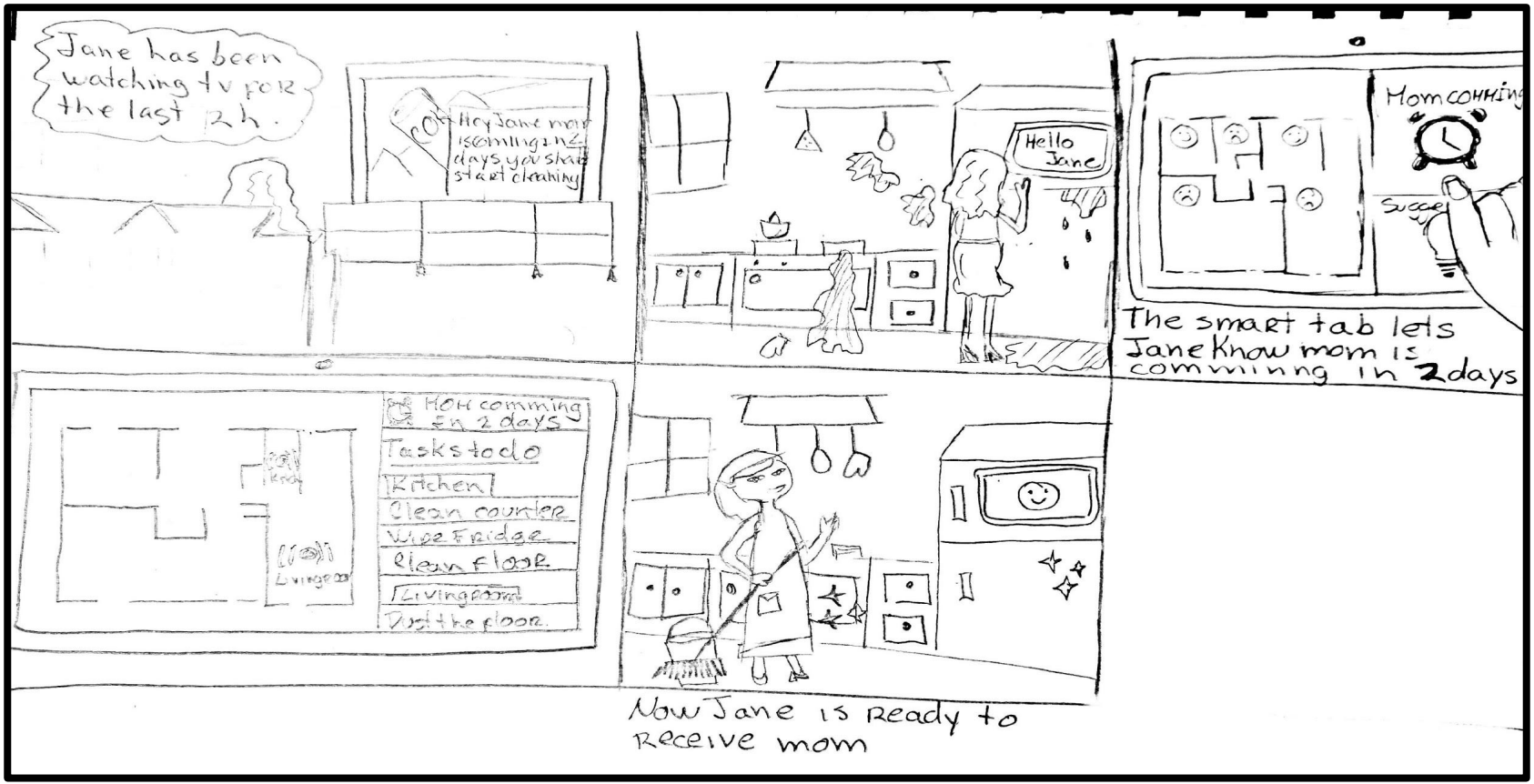
Identify general maintenance tasks



Storyboard 1: Suggesting cleaning tasks based on available time



Storyboard 2: Using external triggers to encourage cleaning



What have we learned?

You have to explore bad designs to get a good design

Always keep the user needs in mind

No idea is a crazy idea

NEAT

A solution for every home

QUESTIONS?