



# NEAT

A solution for every home

# TEAM

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Andrew Tat - Designer and Editor







# MEET DAVE

28 Year Old  
Surgery Resident  
Working 10 to 16 hour shifts

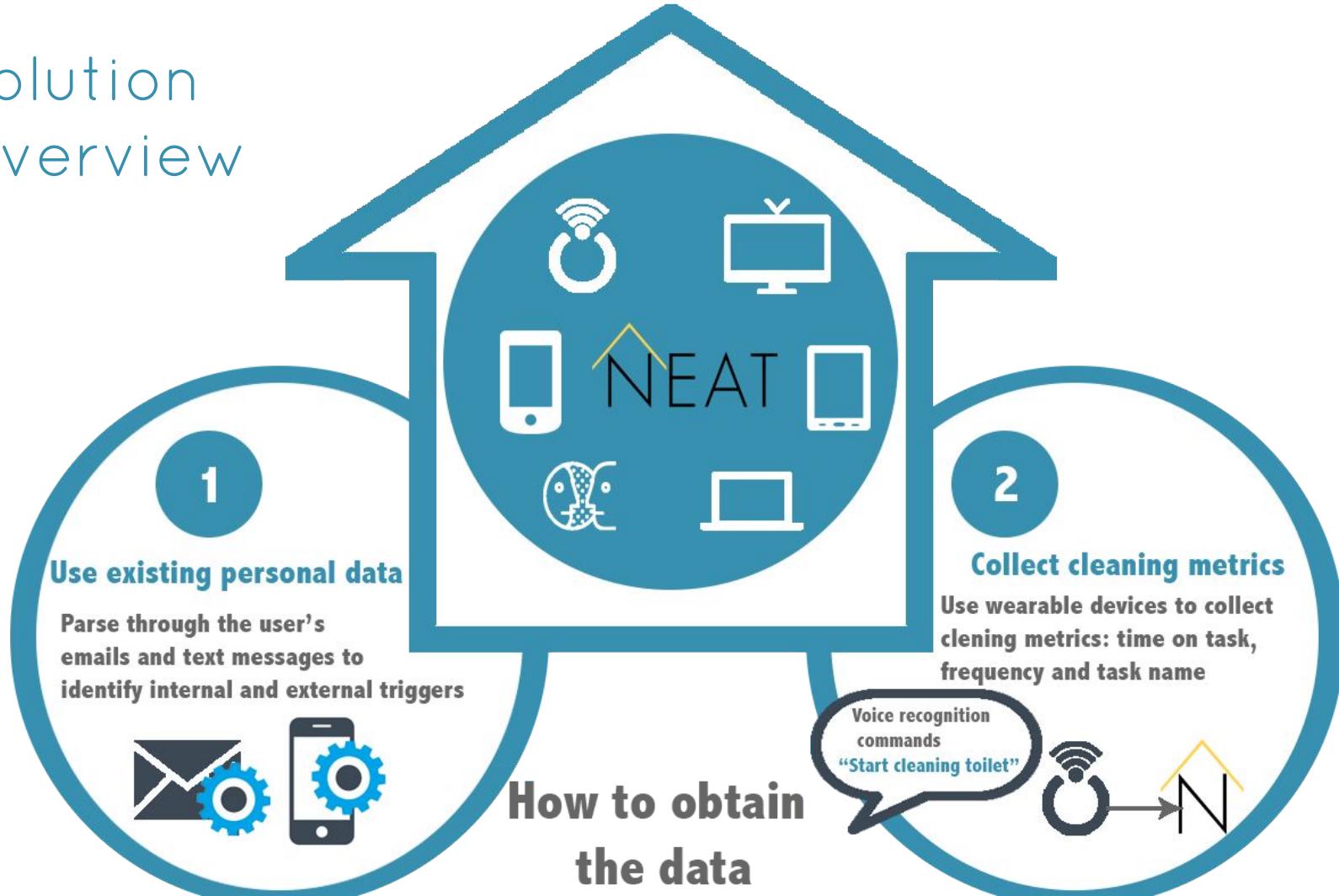
Source: <https://gayswithkids.com/wp-content/uploads/2015/03/guy-cleaning.jpg>



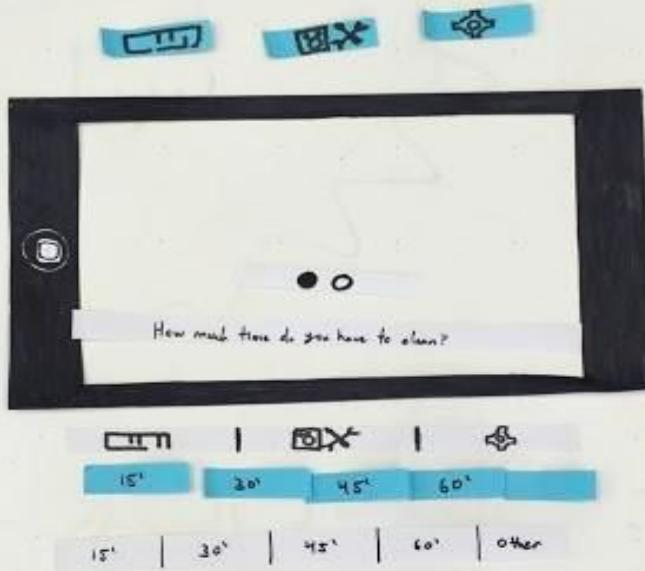
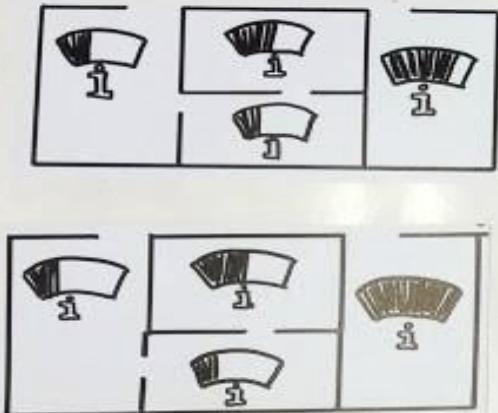




# Solution Overview



# INITIAL PAPER PROTOTYPE



7 Days Ago	Vacuum Bedroom	15'
8 Days Ago	Change Bedsheets	10'
8 Days Ago	Dust Surfaces	10'
5 Days Ago	Clean Floor	15'
15 Days Ago	Mop Floor	15'
16 Days Ago	Clean Windows	15'

Cleaning Chores before mom arrives		
Today	Clean bathroom sink	10'
Tomorrow	Clean toilet	15'
Tomorrow	Mop living room floor	20'
Tomorrow	Clean kitchen countertops	10'
Friday	Change Sheets	5'

Dear Sid,

Did you know that regular vacuuming can keep allergens under control and improve air quality? Let Neat show you what you can do in just 15 mins so that you can have a clean home.

Neat





TV

Sham-  
Wow

Call: 1-800-444-3456

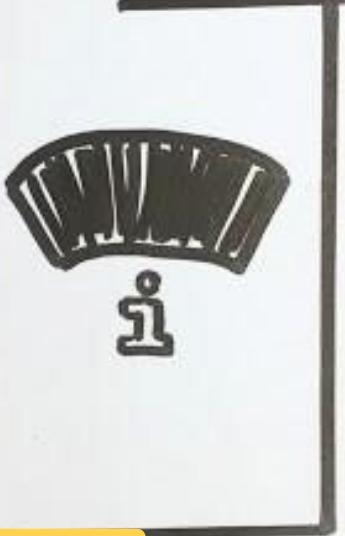
4 ez payments of  
147.73<sup>.58</sup>

Dear Sid,  
Did you know that  
regular vacuuming can keep  
allergens under control  
and improve air quality?  
Let Neat show you what  
you can do in just 15 mins  
so that you can have a clean  
home.



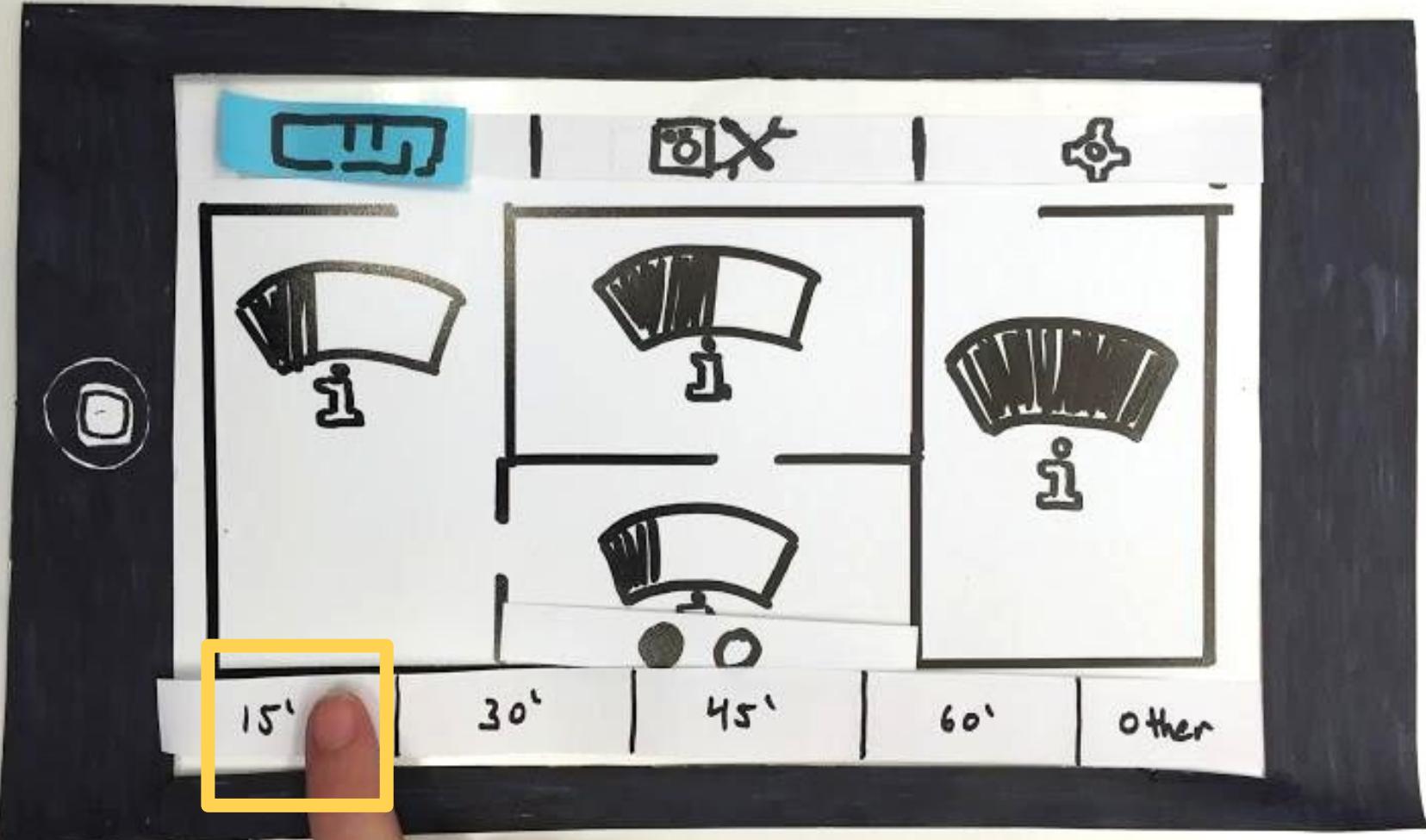
CM

EX



How much time do you have to run?



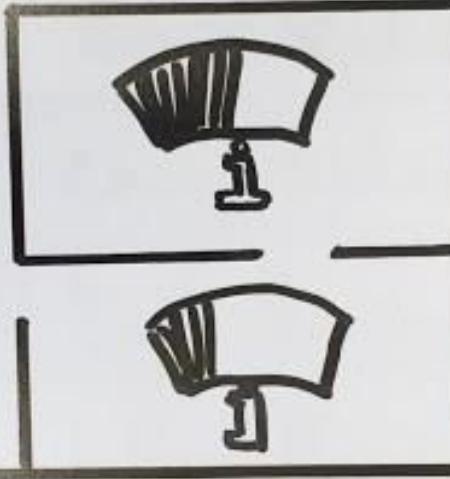
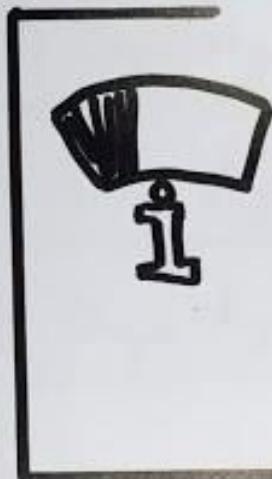


7 Days Ago	Vacuum Bedroom	15'
8 Days Ago	Change Bed sheets	10'
8 Days Ago	Dust Surfaces	10'
5 Days Ago	Clean Floor	15'
15'	30'	45'
60'	Other	

10 Days Ago | Clean Windows | 10



A yellow stylized letter 'N' logo, consisting of a vertical line with a diagonal stroke extending from the top right.



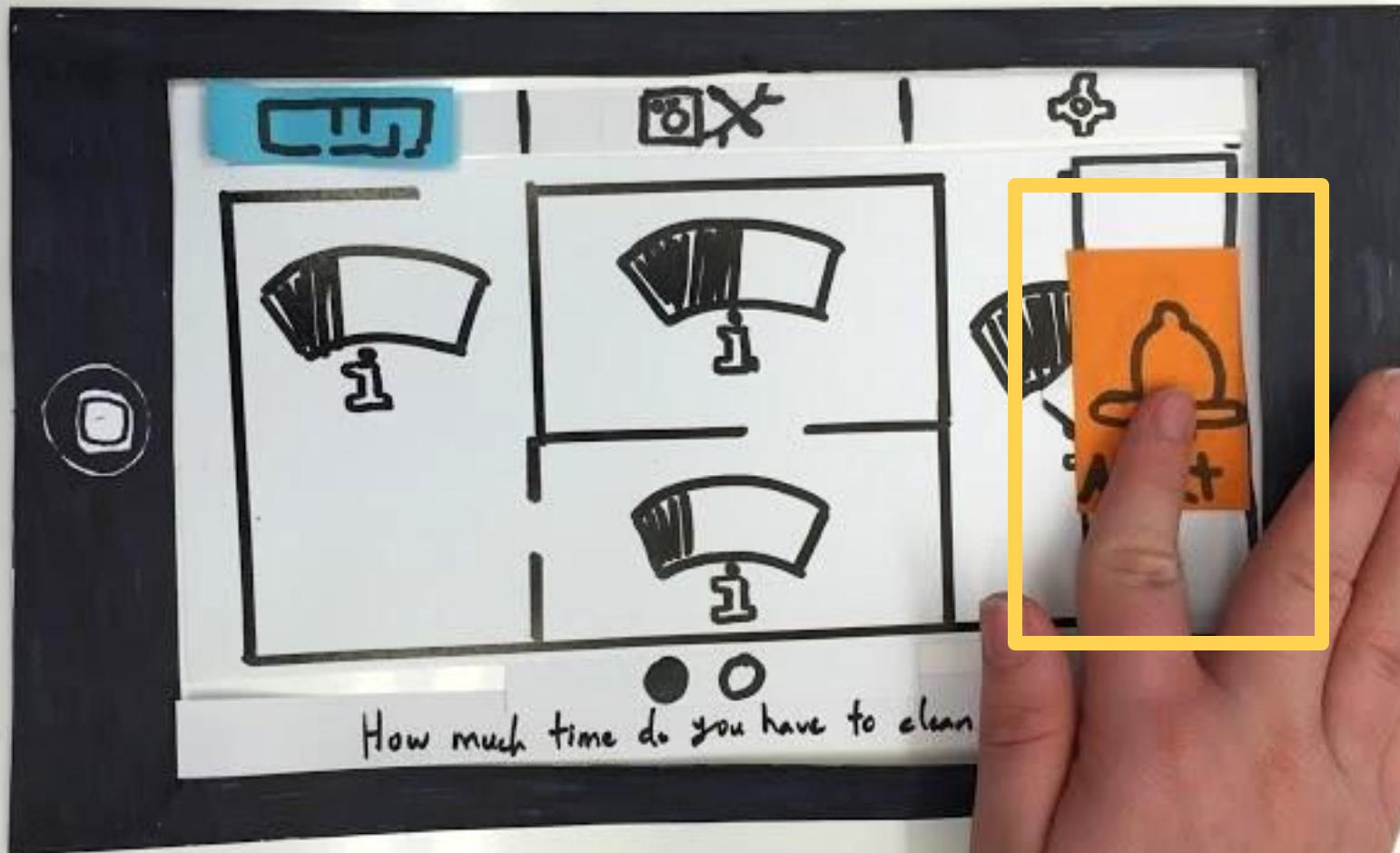
How much time do you have to clean?

16 Days Ago

Clean Windows







≡

✖



Alert

Mom is  
coming in  
2 days

See chore  
plan

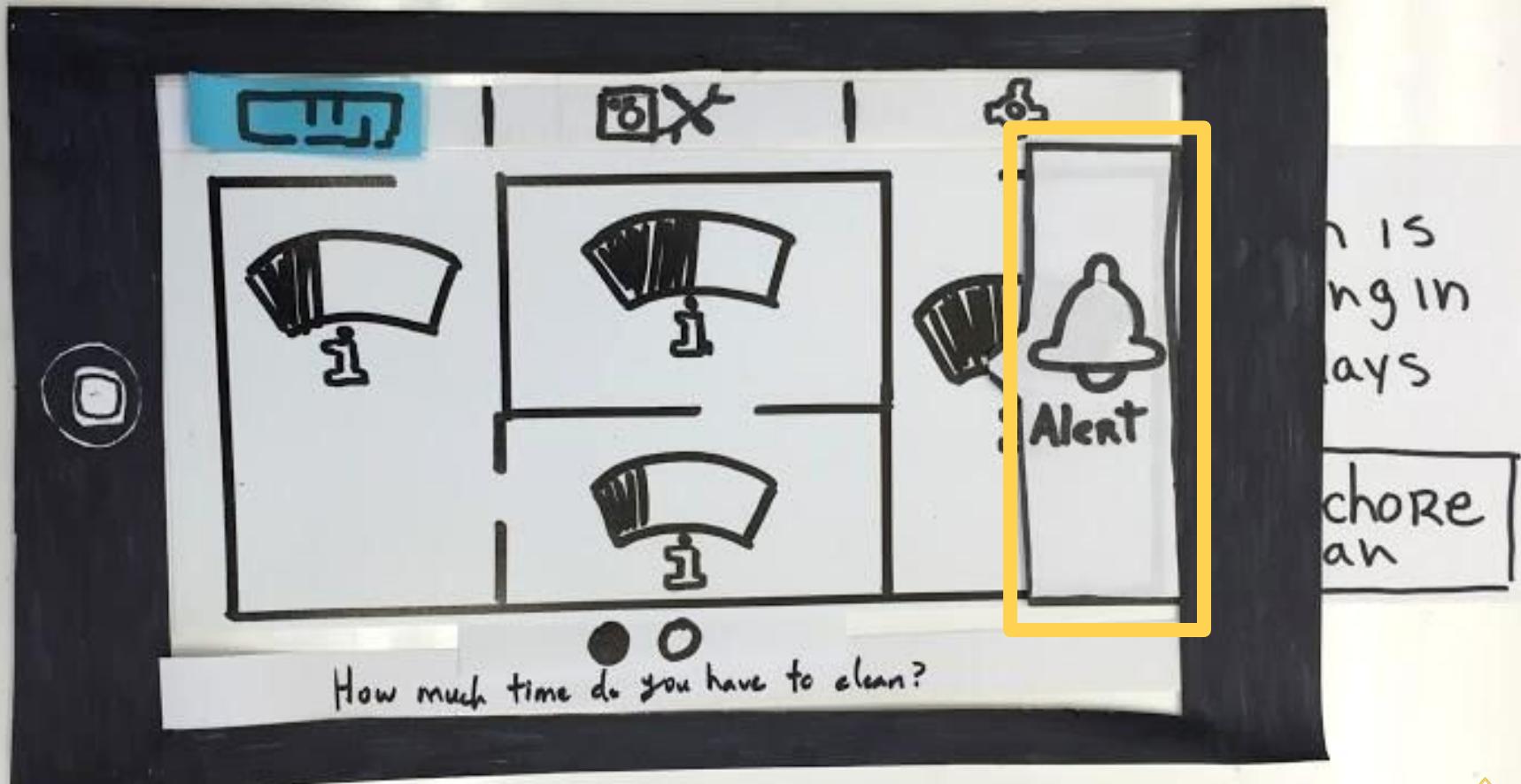
How much time do you have to clean?



Today	Clean bathroom sink	10'
Tomorrow	Clean toilet	15'
Tomorrow	Mop living room	1 hour
Tomorrow	Clean kitchen counter	
Friday	Change Sheets	



A yellow stylized letter 'N' logo, consisting of a vertical line with a diagonal stroke extending from the top right.

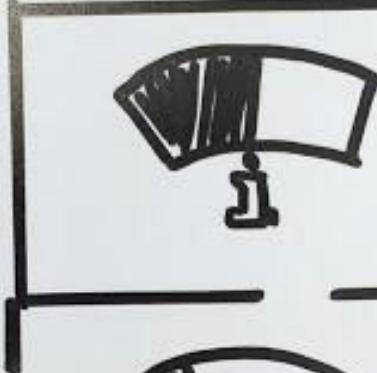


# Heuristic Violations

- Match between system and real world
- Recognition rather than recall
- User control and freedom







How much time do you have to clean?





HOUSE BLUEPRINT

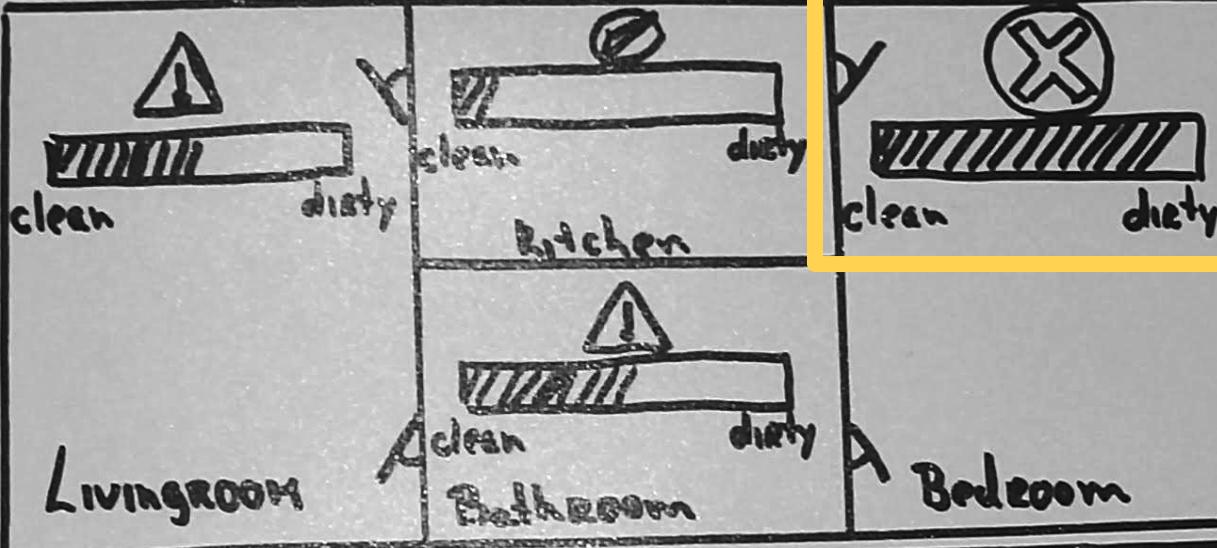


MAINTENANCE ITEMS



SETTINGS

## Your Home Cleaning Status



⌚ How much time do you have to clean?



HOUSE BLUEPRINT

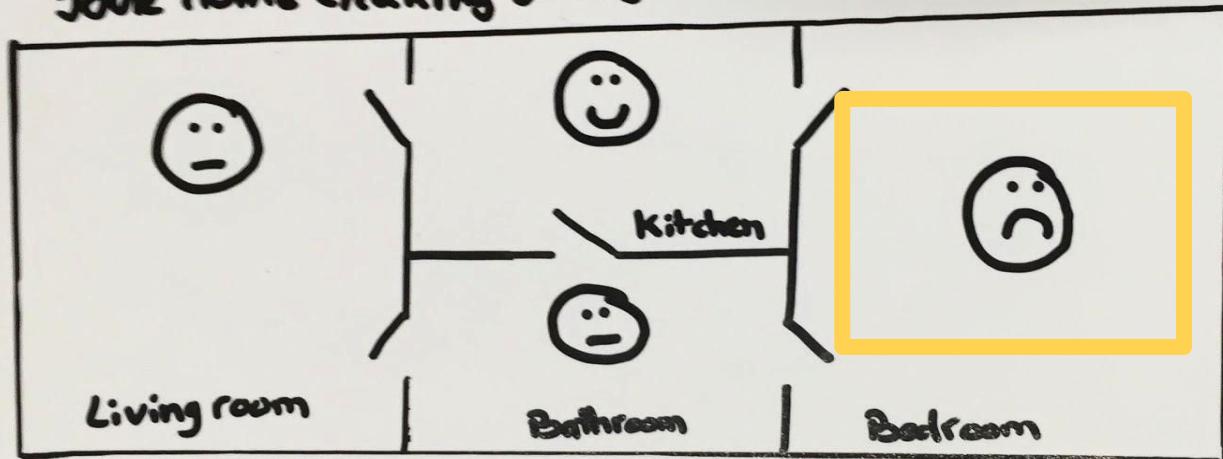


MAINTENANCE ITEMS



SETTINGS

### Your Home Cleaning Status



⑤ How much time do you have to clean?

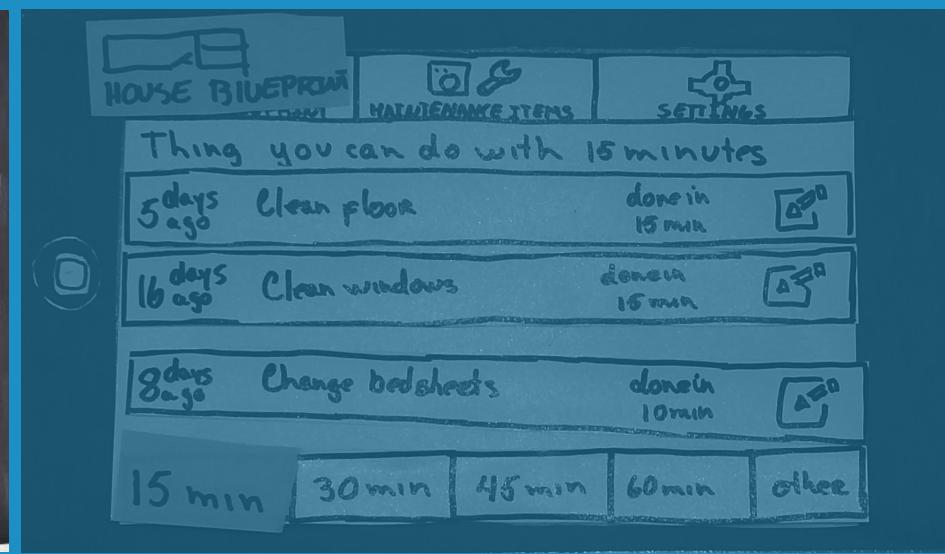
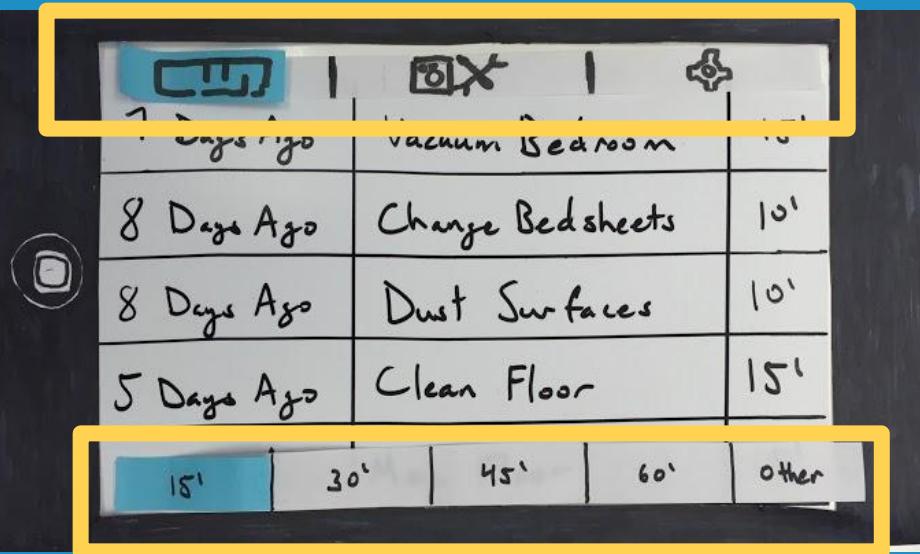
15 min

30 min

45 min

60 min

other



Iconography required recall rather than recognition



7 Days Ago	Vacuum Bedroom	15'
8 Days Ago	Change Bedsheets	10'
8 Days Ago	Dust Surfaces	10'
5 Days Ago	Clean Floor	15'
15'	30'	45'
60'	Other	

The interface features a top navigation bar with icons for 'HOUSE BLUEPRINT' (containing a house icon), 'MAINTENANCE ITEMS' (containing a checklist icon), and 'SETTINGS' (containing a gear icon). Below the bar is a title 'Thing you can do with 15 minutes'. A list of three tasks is shown, each with a timestamp, task name, duration, and a checkbox labeled 'done in 15 min':

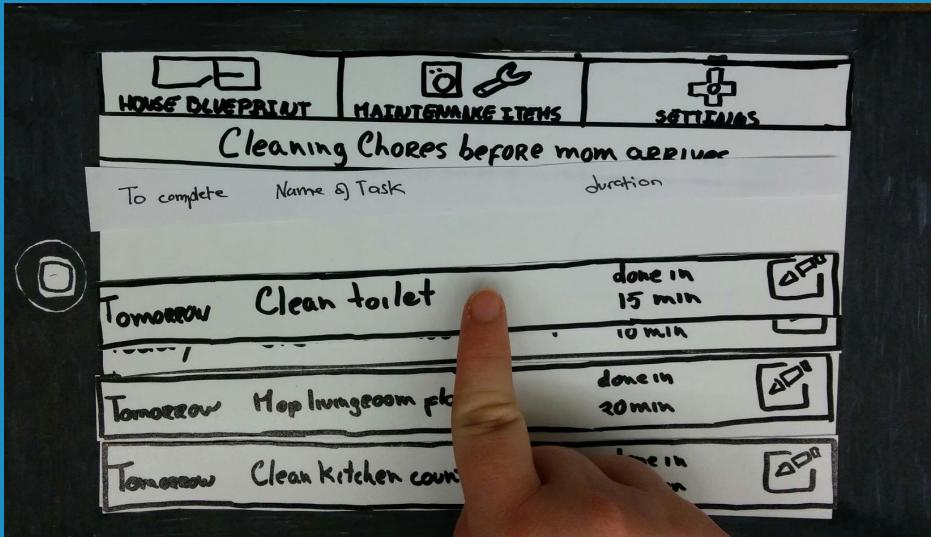
- 5 days ago Clean floor done in 15 min
- 16 days ago Clean windows done in 15 min
- 8 days ago Change bedsheets done in 10min

At the bottom is a footer bar with time intervals: '15 min', '30min', '45min', '60min', and 'other'.

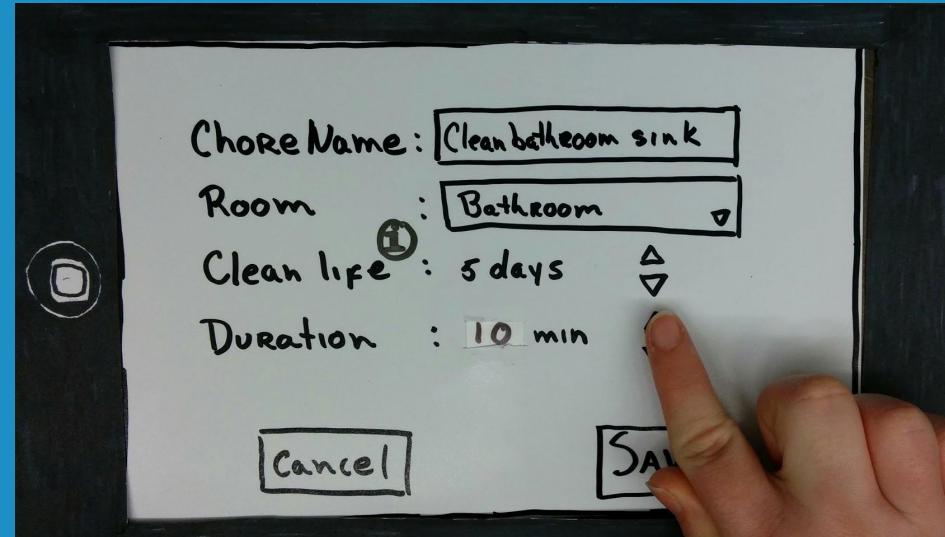
Iconography required recall rather than recognition



## Modify order of chores



## Edit chores



Chores lacked user control and freedom



# Test Participants

- One HCDE Student
  - Two Friends of CI
- Participants



# Usability Testing Methodology

- Provide context regarding Neat
- Convey scenarios and tasks



# User Tasks

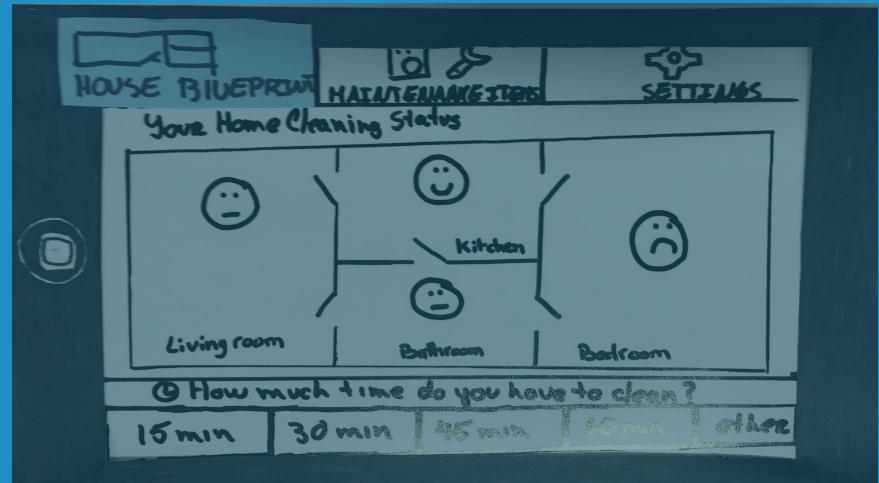
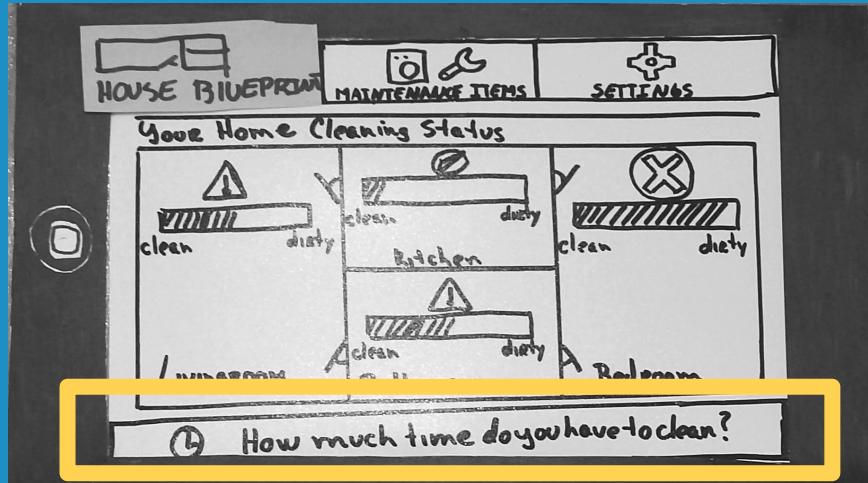
Check last time bedsheets were changed

Find what can be cleaned in 15 minutes

Learn what needs to be cleaned before mom arrives

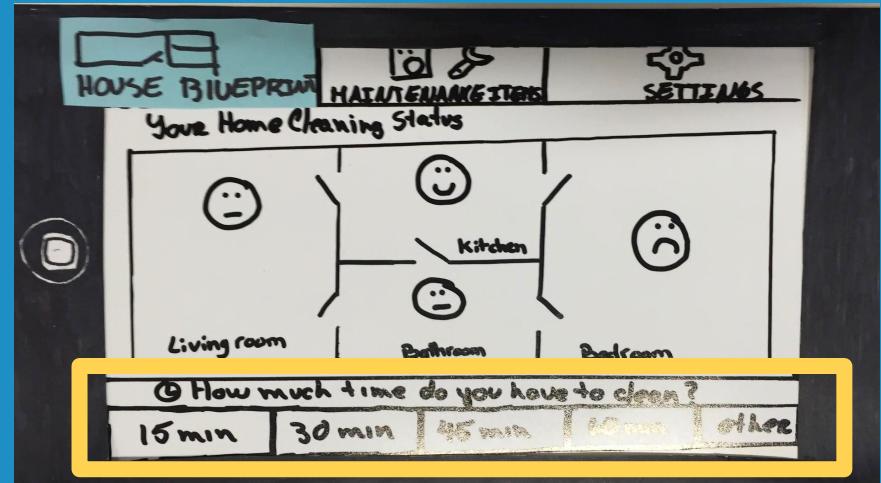
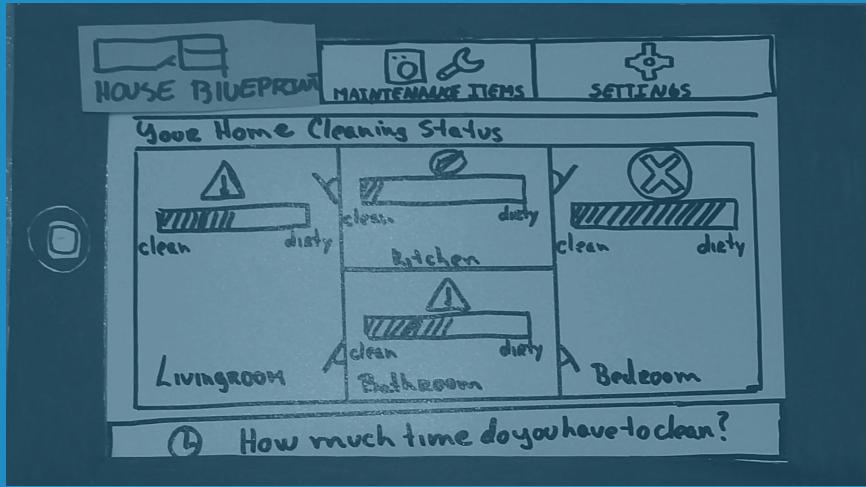
# Usability Testing Results





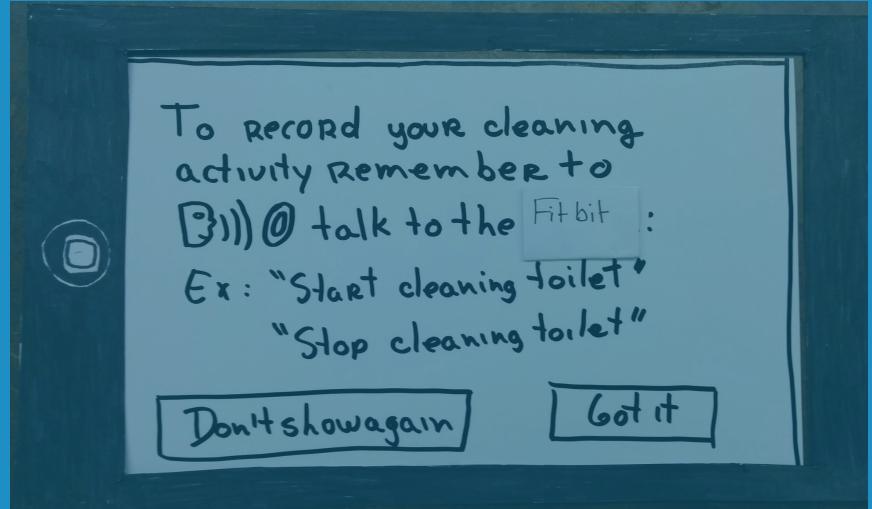
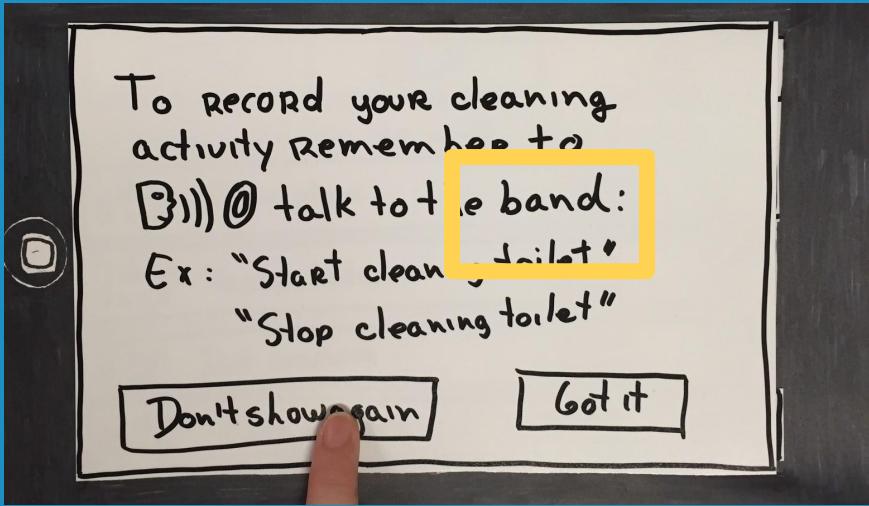
Button was not perceived as a button





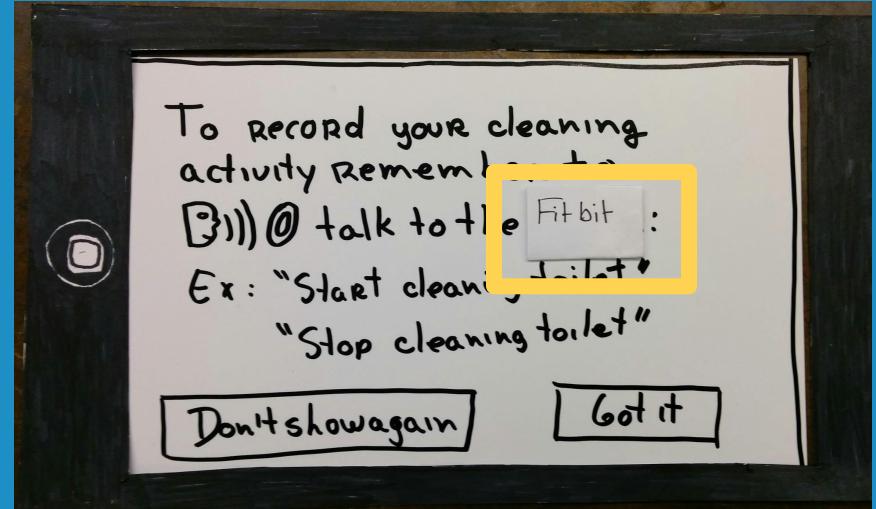
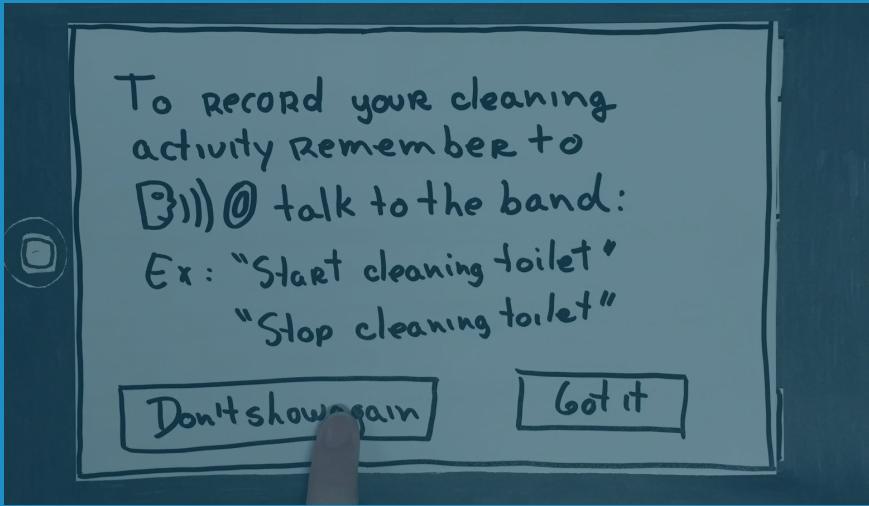
Button was not perceived as a button





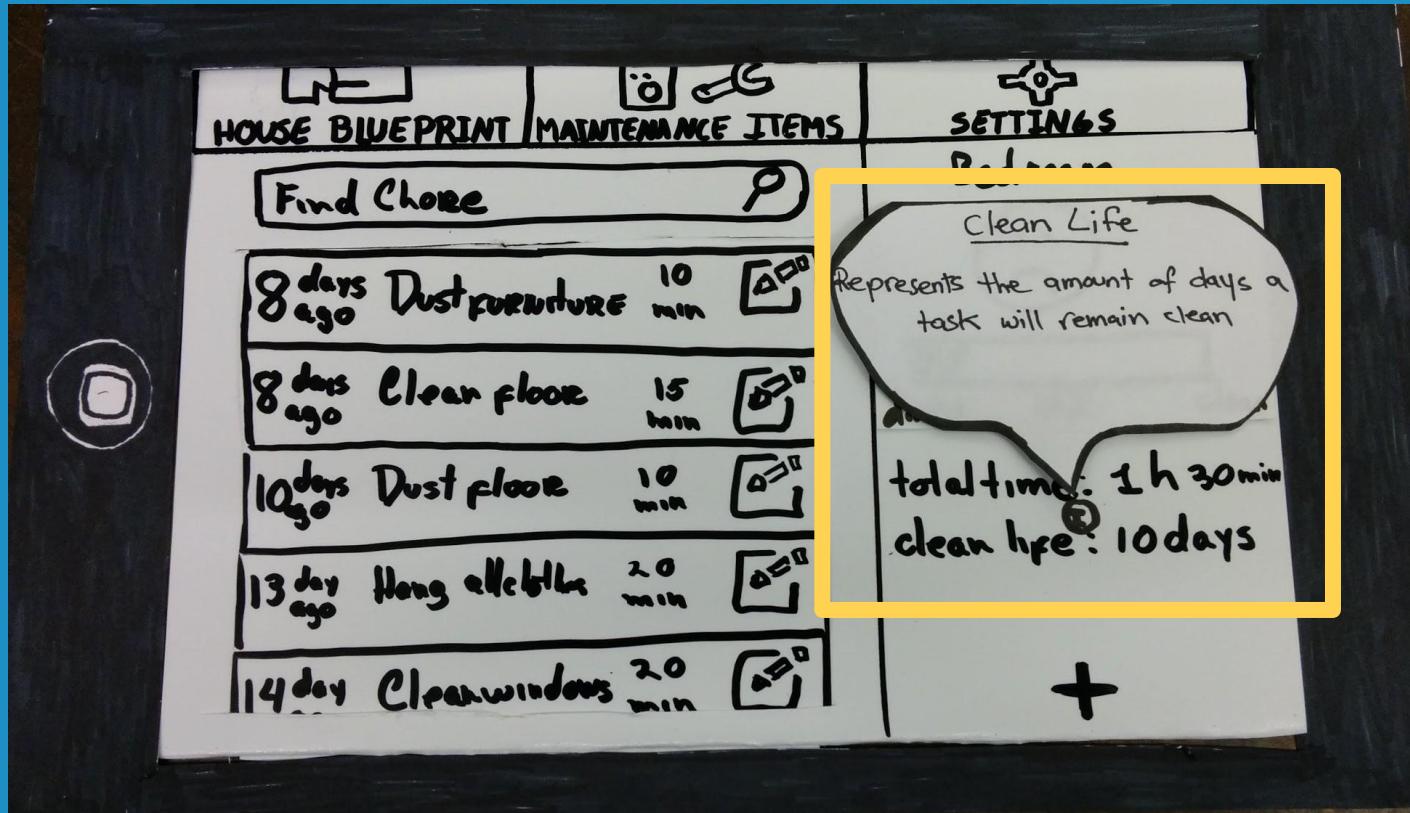
Proprietary wearable adds complexity





Proprietary wearable adds complexity

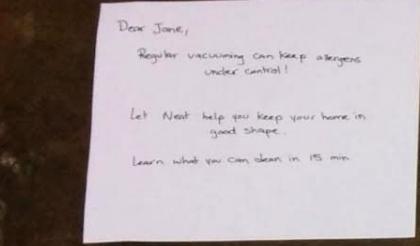




Unclear terminology

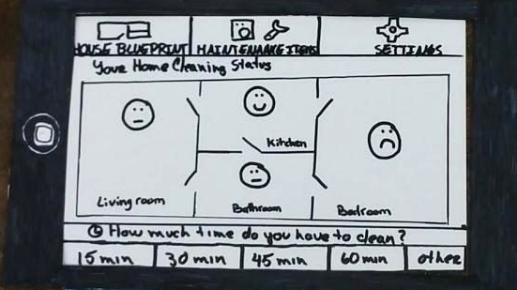
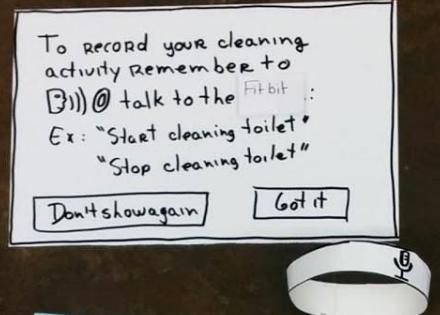


# FINAL PAPER PROTOTYPE



Today      Tomorrow

HOUSE BLUEPRINT	Maintenance Items	SETTINGS
Cleaning Chores before mom arrives		
To complete	Name of Task	duration
Tomorrow	Clean toilet	done in 15 min
Today	Clean bathroom sink	done in 10 min
Tomorrow	Mop living room floor	done in 20 min
Tomorrow	Clean kitchen countertop	done in 20 min



Clean Life  
Represents the amount of days a task will remain clean

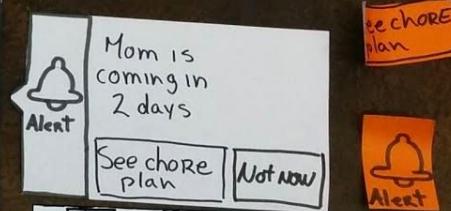
Chore Name: Clean bathroom sink

Room : Bathroom

Clean life: 5 days

Duration : 12 min

**Cancel**      **SAVE**



HOUSE BLUEPRINT    MAINTENANCE ITEMS    SETTINGS

Find Chore

8 days ago Clean floor   15 min  

10 days ago Dust floor   10 min  

13 days ago Hang clothes   2.0 min  

14 days ago Clean windows   2.0 min  

16 days ago Please bedsheet   10 min  

16 days ago Organize dresser   20 min  

dirty 10% clean

total time: 1h 30min

clean life: 10days

+





Dear Jane,

Regular vacuuming can keep allergens  
under control!

Let Neat help you keep your home in  
good shape.

Learn what you can clean in 15 min.



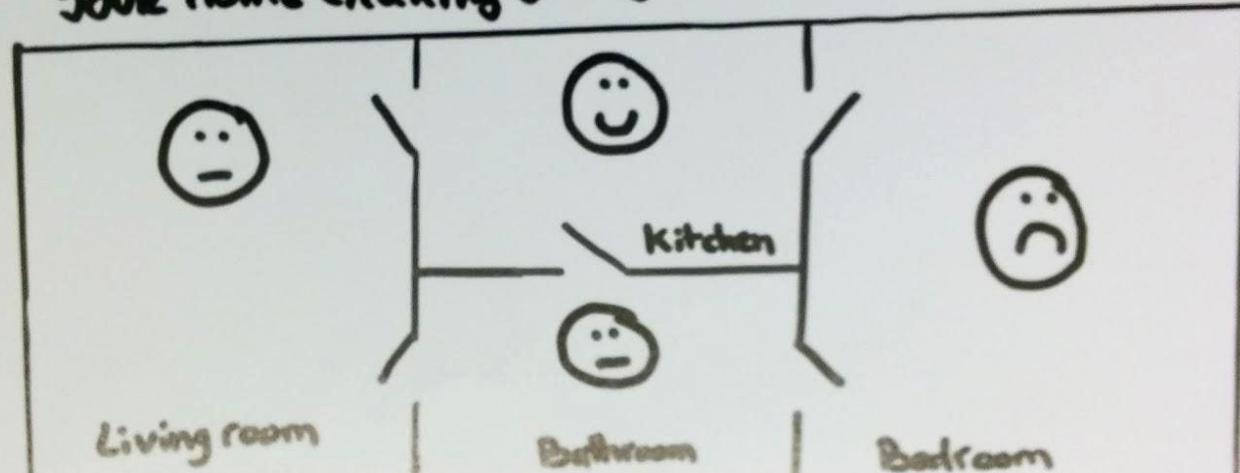


HOUSE BLUEPRINT MAINTENANCE



SETTINGS

### Your Home Cleaning Status



⑤ How much time do you have to clean?

15 min

30 min

45 min

60 min

other





HOUSE BLUEPRINT



MAINTENANCE ITEMS



SETTINGS

## Thing you can do with 15 minutes

Created

Name of Task

Duration

16 days ago

Clean windows

done in  
15 min

8 days ago

Change bedsheet

done in



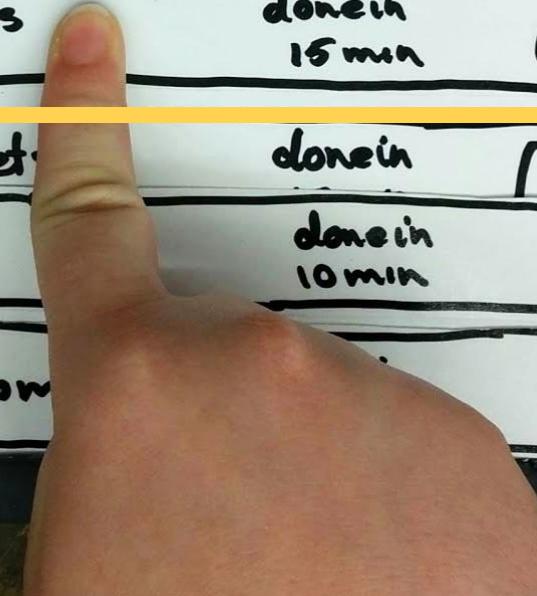
8 days ago

Dust surfaces

done in  
10 min

7 days ago

Vacuum bedroom



To record your cleaning activity Remember to  
B))))) talk to the Fitbit :

Ex: "Start cleaning toilet"  
"Stop cleaning toilet"

Don't show again

Got it

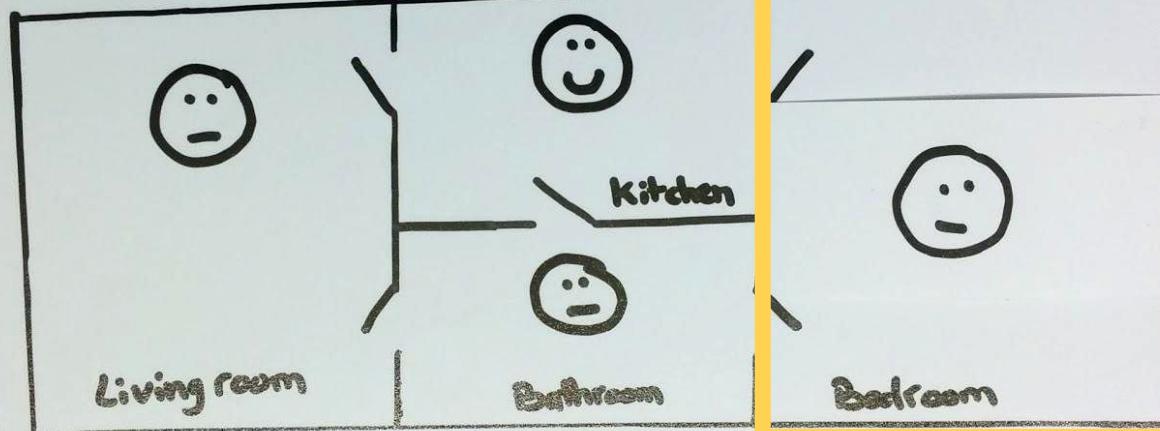


# HOUSE BLUEPRINT MAINTENANCE ITEMS



SETTINGS

Your Home Cleaning Status



⑤ How much time do you have to clean?

15 min

30 min

45 min

60 min

other





HOUSE BLUEPRINT

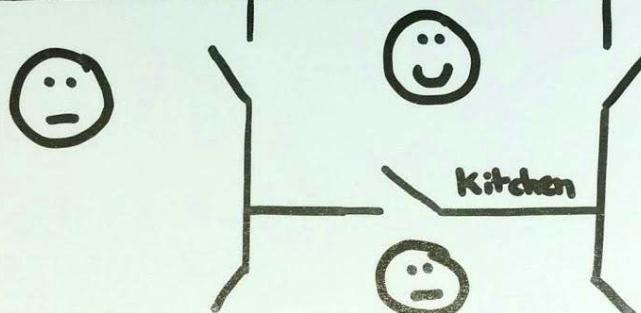


Maintenance Items



SETTINGS

Your Home Cleaning Status



Living room

Bathroom

Bedroom

How much time do you have to clean?

15 min

30 min

45 min

60 min





HOUSE BLUEPRINT



MAINTENANCE ITEMS



SETTINGS

Your Home Ch



Living room



Mom is  
coming in  
2 days

See chore  
plan

Not now

① How to...

15 min

30 min

45 min

60 min

other



# Digital Mockup







Overview



Maintenance



Settings



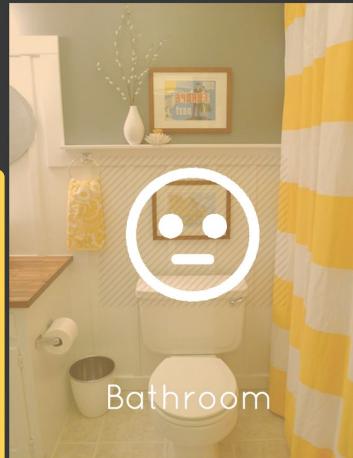
Kitchen



Living Room



Bedroom



Bathroom



How many minutes do you have to clean?



- 15



View





Overview



Maintenance



Settings

Q Search

Cleaned

Chore

Duration

9 days ago	Dust furniture	15 minutes	
9 days ago	Clean floors	20 minutes	
9 days ago	Dust floors	15 minutes	
12 days ago	Clean windows	10 minutes	
11 days ago	Hang clothes	20 minutes	
30 days ago	Neat drawers	30 minutes	
10 days ago	Change sheets	20 minutes	
8 days ago	Clean lamps	10 minutes	
8	Wash curtains	15 minutes	

Bedroom



Total Time: 1h 30m  
Clean Life: 10 Days

New Chore





Overview



Maintenance



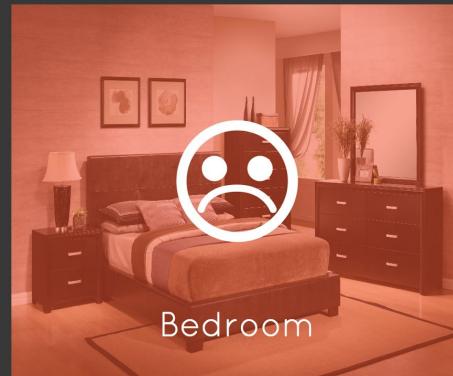
Settings



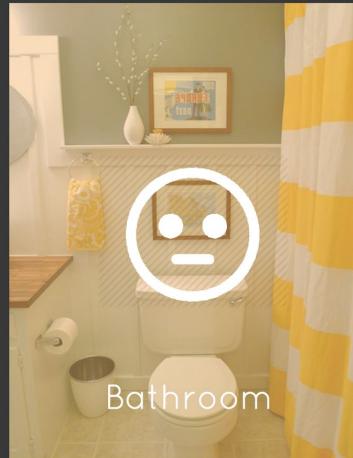
Kitchen



Living Room



Bedroom



Bathroom



How many minutes do you have to clean?



- 15 +

View





Overview



Maintenance



Settings

## THINGS YOU CAN DO WITH 15 MINUTES

Cleaned	Chore	Duration	
:: 9 :: days ago	Vacuum bedroom floors	15 minutes	
:: 9 :: days ago	Clean bathroom floors	15 minutes	
:: 9 :: days ago	Dust furniture in bedroom	15 minutes	
:: 12 :: days ago	Clean windows	10 minutes	
:: 11 :: days ago	Dust livingroom floors	15 minutes	
:: 10 :: days ago	Clean kitchen counter	10 minutes	
:: 8 :: days ago	Change sheets	10 minutes	
:: 8 :: days ago	Clean lamps	15 minutes	





Overview



Maintenance



Settings

## THINGS YOU CAN DO WITH 15 MINUTES

**Cleaned****Chore****Duration**:: 9  
:: days ago

Vc

15 minutes

:: 9  
:: days ago

Cl

15 minutes

:: 9  
:: days ago

Du

15 minutes

:: 12  
:: days ago

Cl

10 minutes

:: 11  
:: days ago

Du

15 minutes

:: 10  
:: days ago

Cl

10 minutes

:: 8  
:: days ago

Change sheets

10 minutes

:: 8  
:: days ago

Clean lamps

15 minutes

To record your cleaning activity,  
remember to  
 talk to your Fitbit:

Ex: "Start cleaning toilet"  
"Stop cleaning toilet"

[Don't show me again](#)[Got it](#)



Overview



Maintenance



Settings

## THINGS YOU CAN DO WITH 15 MINUTES

Cleaned

Chore

Duration

:: 9  
:: days ago

Vacuum

15 minutes

:: 9  
:: days ago

Clean

15 minutes

:: 9  
:: days ago

Dust

15 minutes

:: 12  
:: days ago

Clean

10 minutes

:: 11  
:: days ago

Dust

15 minutes

:: 10  
:: days ago

Clean

10 minutes

:: 8  
:: days ago

Change sheets

10 minutes

:: 8  
:: days ago

Clean lamps

15 minutes

No, thanks

Ok





Overview



Maintenance



Settings



Kitchen



Living Room



Bedroom



Bathroom



How many minutes do you have to clean?

- 15 +

View







Overview



Maintenance



Settings



Kitchen



Living Room



Bedroom



Bathroom



How many minutes do you have to clean?

- 15 +

View





Overview



Maintenance



Settings



How many minutes do you have to clean?

- 15 +

**View**





Overview



Maintenance



Settings

## CLEANING CHORES BEFORE MOM ARRIVES

Cleaned	Chore	Duration	
Today	Clean bathroom sink	10 minutes	
Today	Clean toilet	15 minutes	
Tomorrow	Mop livingroom floors	15 minutes	
Tomorrow	Clean kitchen counters	15 minutes	
Tomorrow	Hang clothes	20 minutes	
Friday	Organize bookshelf	25 minutes	
Friday	Change sheets	10 minutes	

[New Chore](#)

# SUMMARY

Conventions are not affordances

Designer concerns are important

User concerns are paramount





A solution for every home

QUESTIONS?