



NEAT

A solution for every home

TEAM

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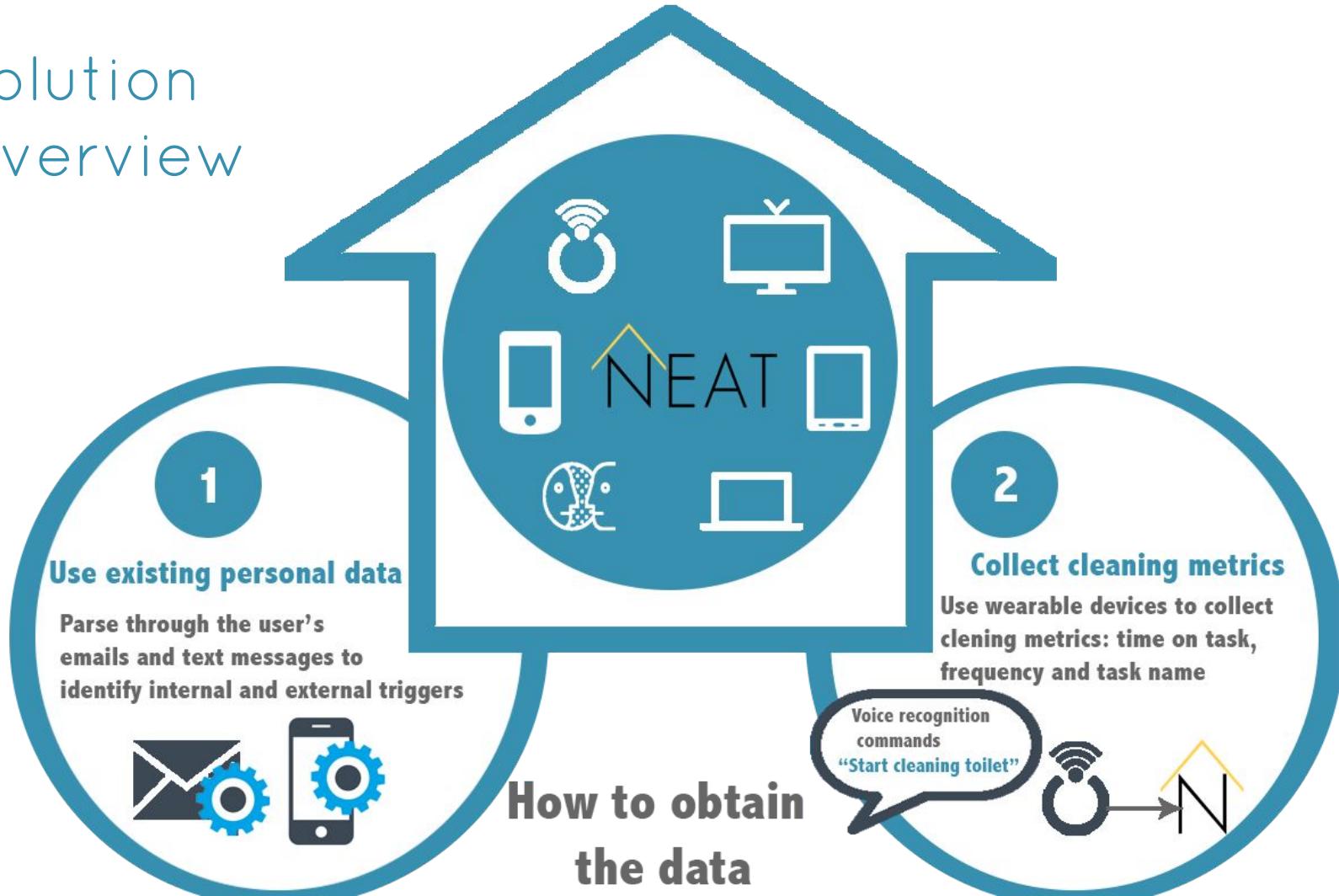
A close-up photograph of a man with dark hair and a beard, wearing a grey t-shirt and yellow rubber gloves. He is leaning forward over a light-colored wooden surface, looking directly at the camera with a serious expression.

MEET DAVE

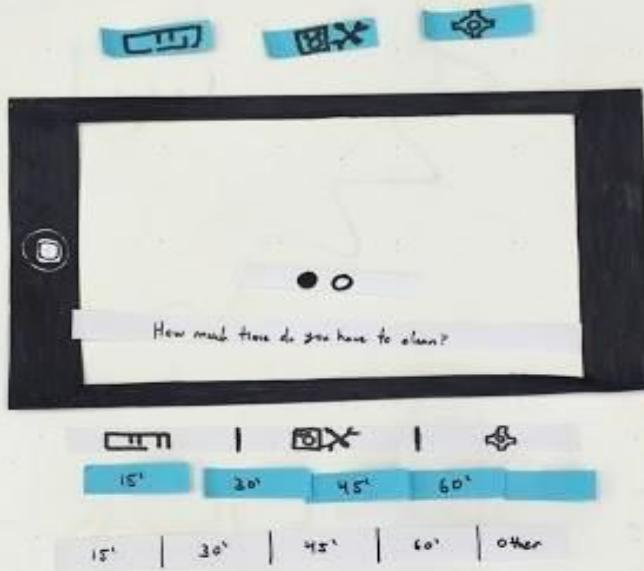
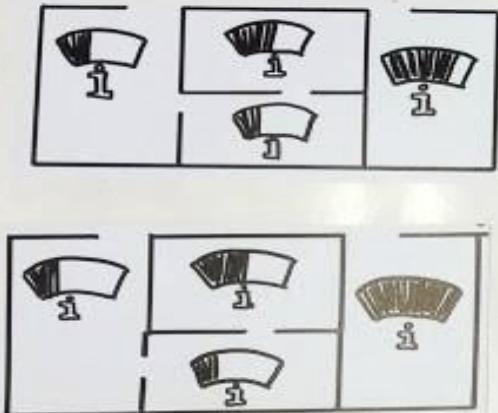
28 Year Old
Surgery Resident
Working 10 to 16 hour shifts

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

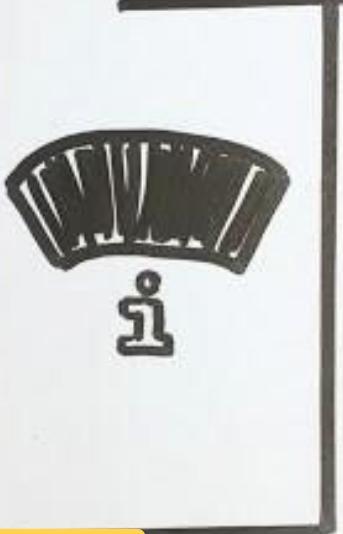
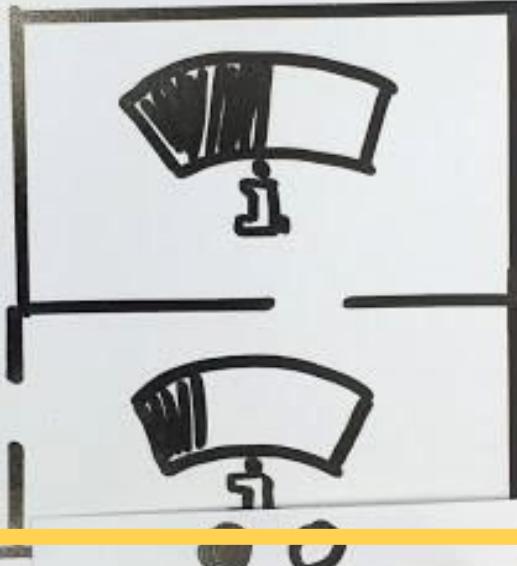
4 ez payments of
147.73^{.58}

Dear Sid,
Did you know that
regular vacuuming can keep
allergens under control
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Let Neat show you what
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so that you can have a clean
home.



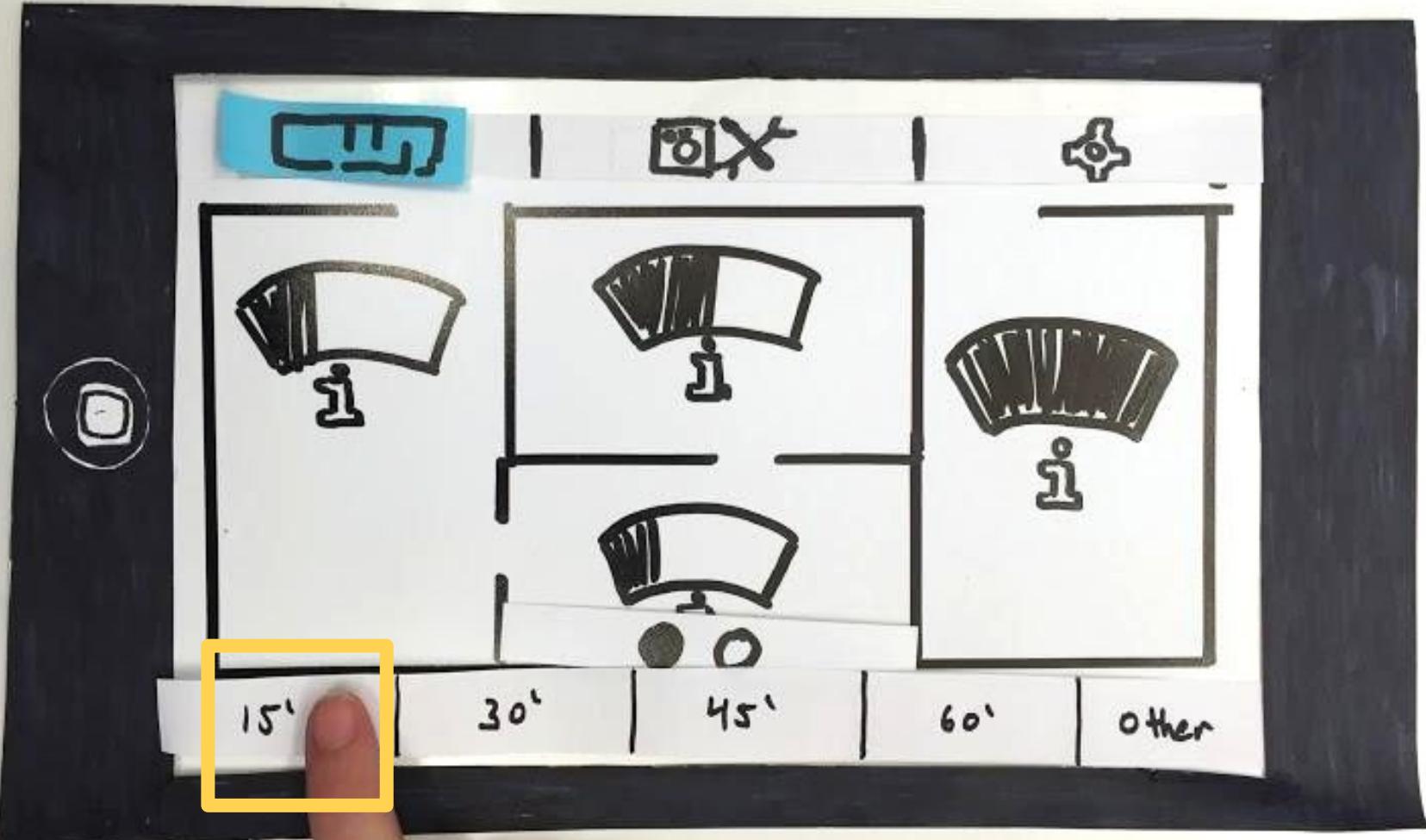
CM

EX



How much time do you have to run?





15°

30°

45°

60°

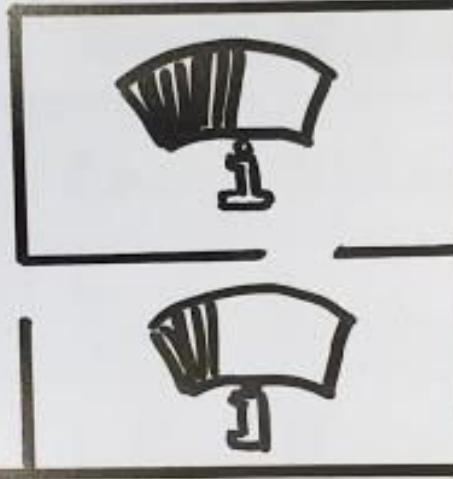
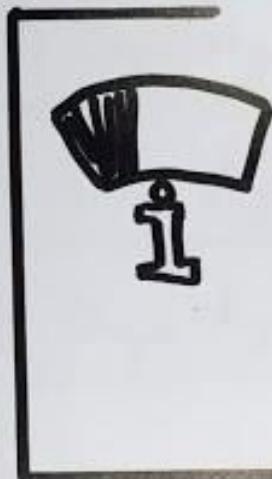
other

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 small, stylized logo in the bottom right corner. It features a yellow outline of a house with an open door and a roof. Above this house shape is a large, bold letter 'N' also outlined in yellow.



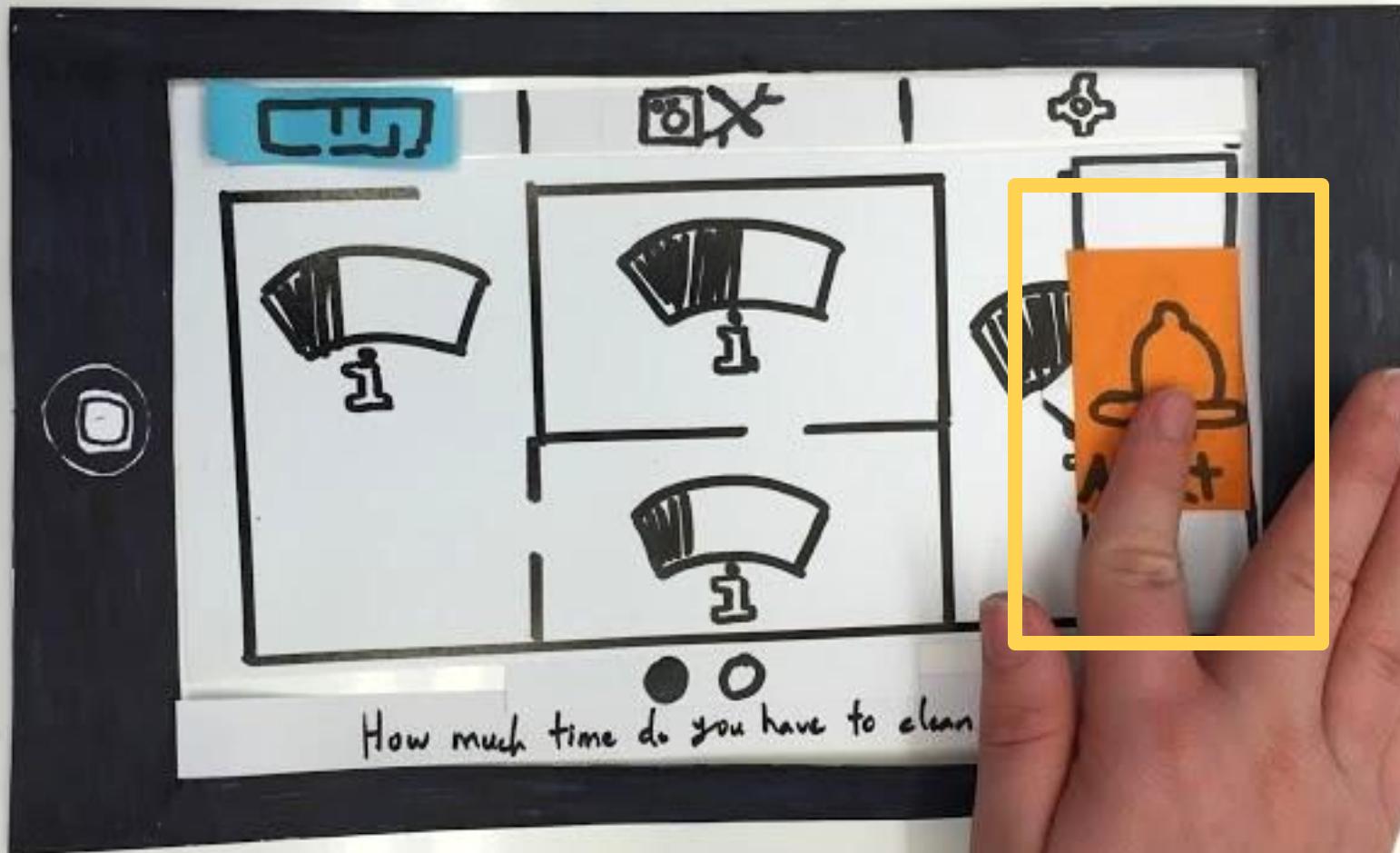
How much time do you have to clean?

16 Days Ago

Clean Windows

10





≡

✖



Alert

Mom is
coming in
2 days

See chore
plan

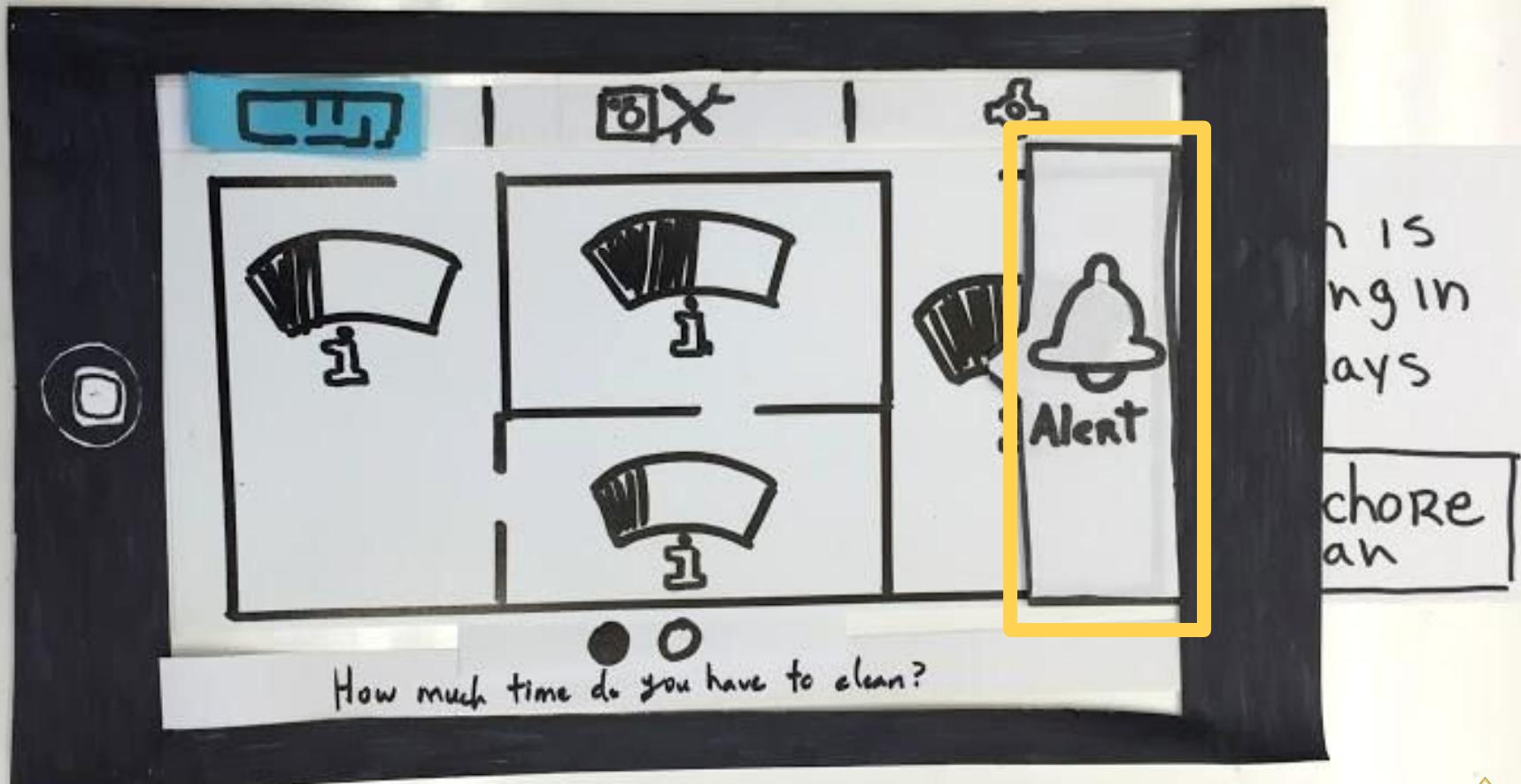
How much time do you have to clean?



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







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

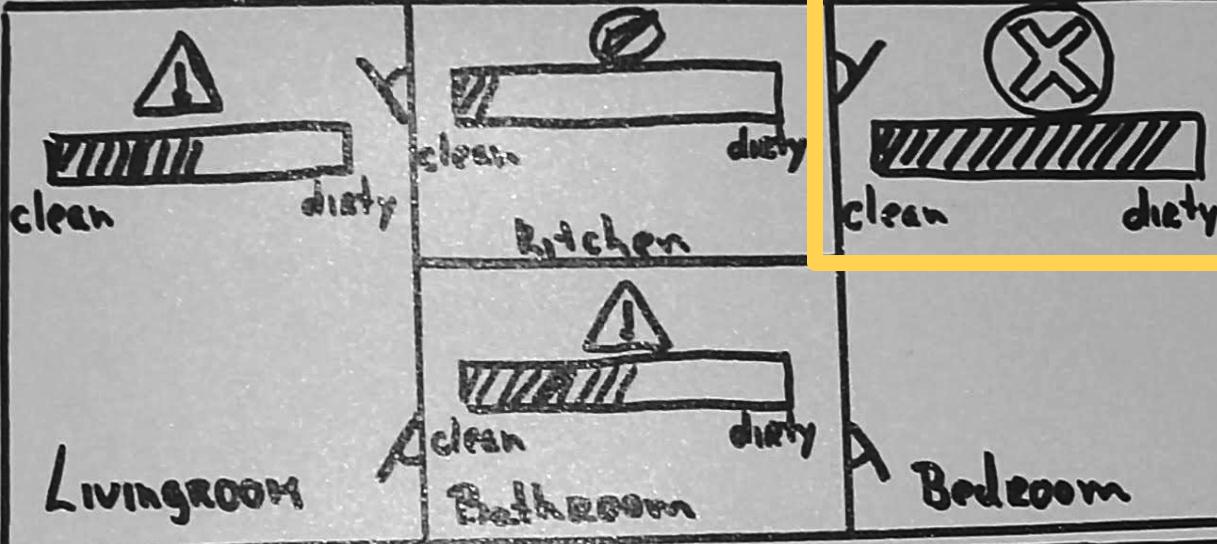


MAINTENANCE ITEMS



SETTINGS

Your Home Cleaning Status



⌚ How much time do you have to clean?



HOUSE BLUEPRINT

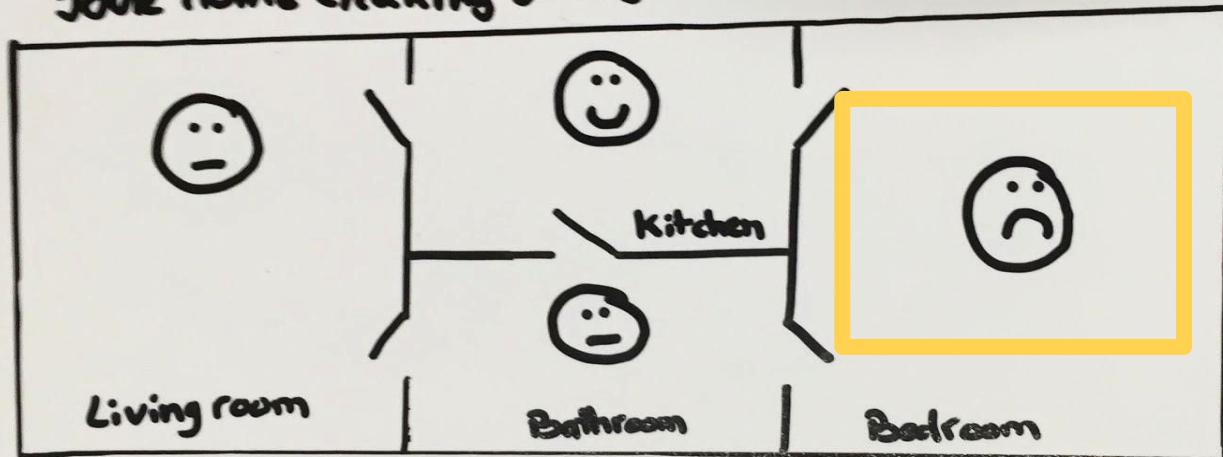


MAINTENANCE ITEMS



SETTINGS

Your Home Cleaning Status



⑤ How much time do you have to clean?

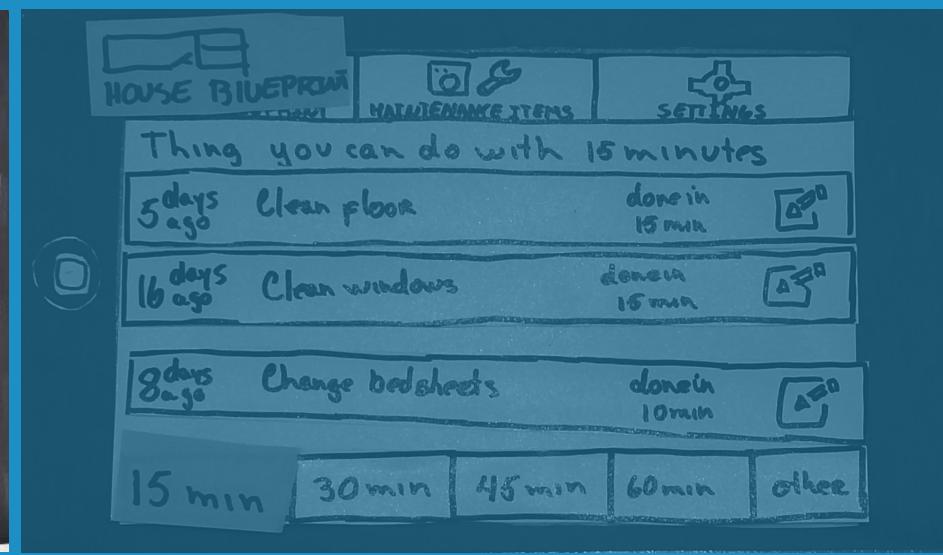
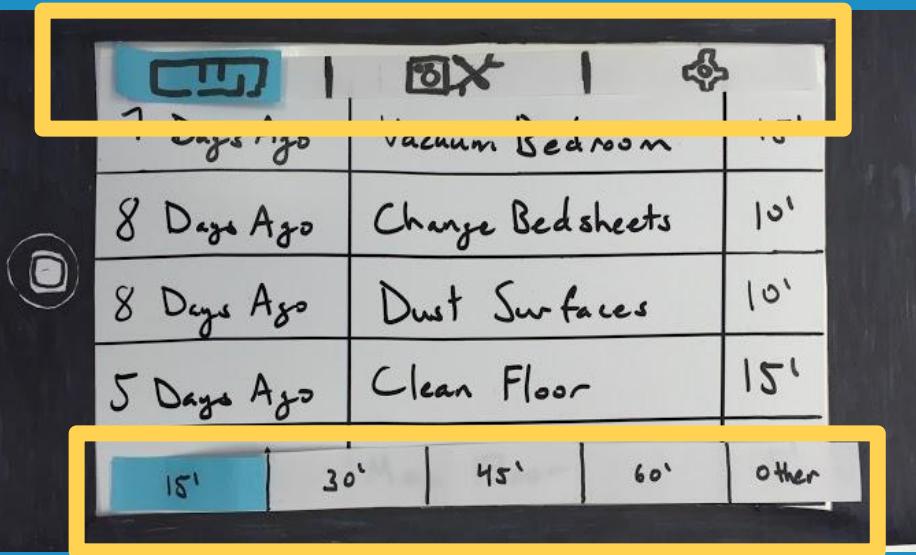
15 min

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 image shows a hand-drawn mobile application interface for housekeeping tasks. At the top, there's a navigation bar with icons for 'HOUSE BLUEPRINT' (with a house icon), 'MAINTENANCE ITEMS' (with a checklist icon), and 'SETTINGS' (with a gear icon). Below the navigation bar, a title 'Thing you can do with 15 minutes' is written. There are three cards listed under this title:

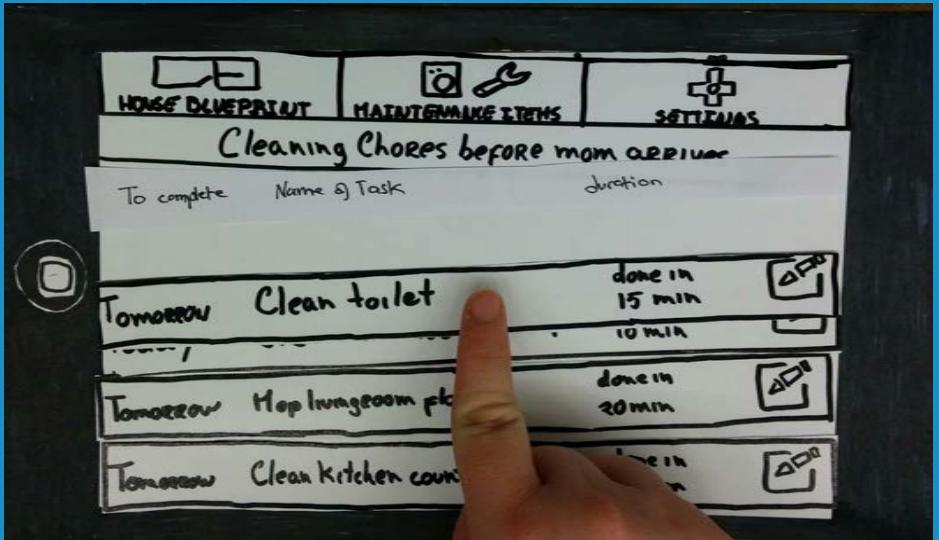
- 5 days ago Clean floor done in 15 min
- 16 days ago Clean windows done in 15 min
- 8 days ago Change bedsheets done in 10 min

At the bottom, there's a time selection bar with options: 15 min, 30 min, 45 min, 60 min, and Other.

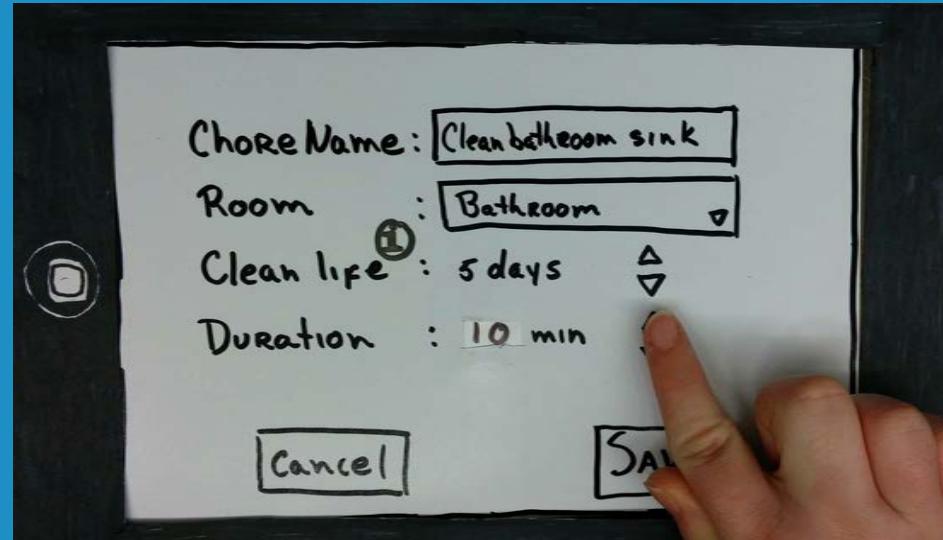
Iconography required recall rather than recognition



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

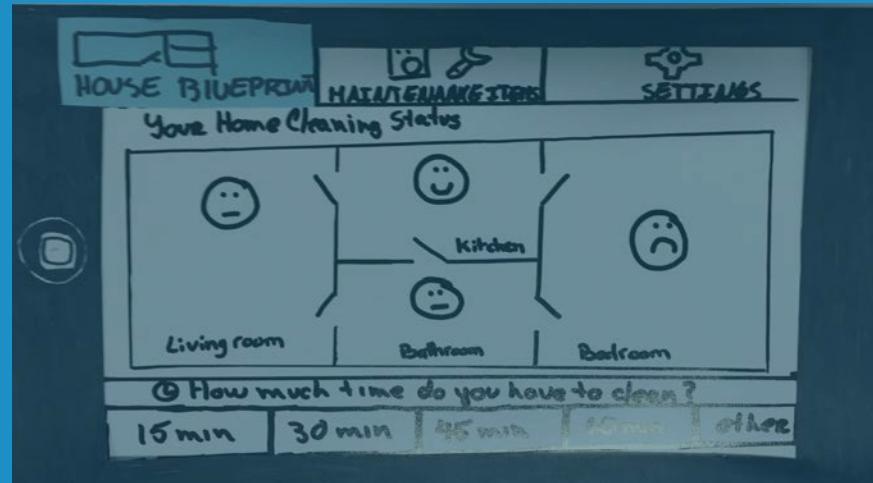
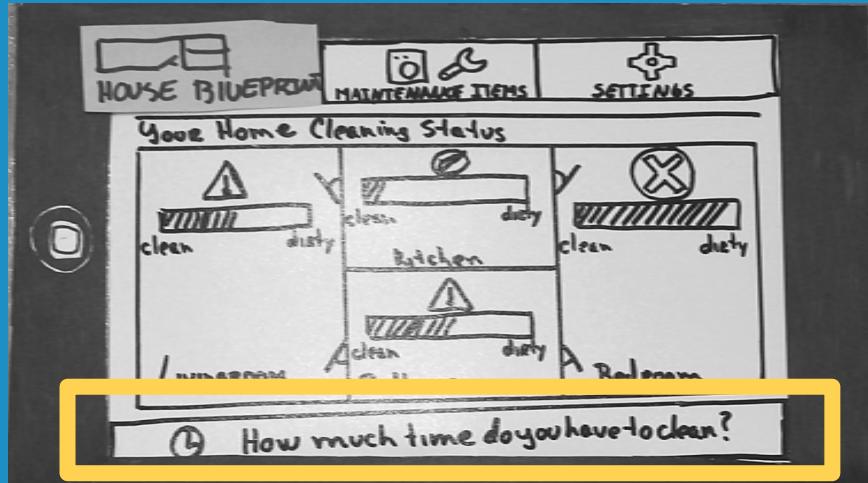
Check last time bedsheets were changed

Find what can be cleaned in 15 minutes

Learn what needs to be cleaned before mom arrives

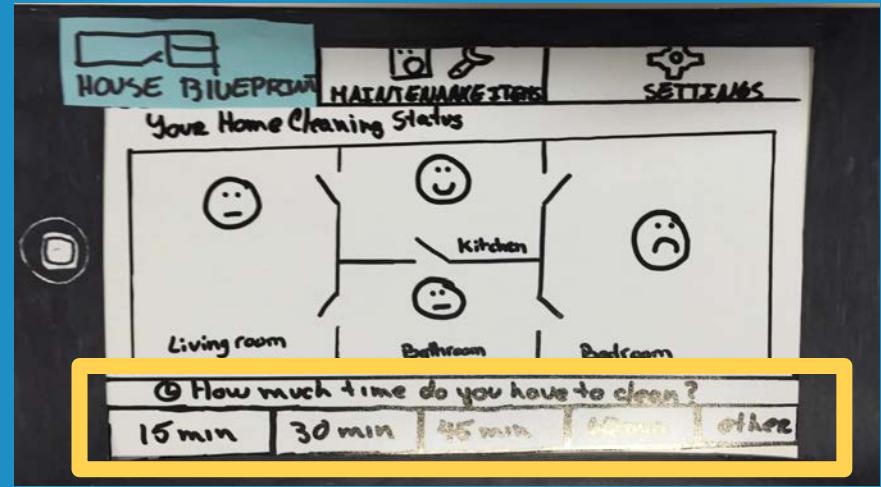
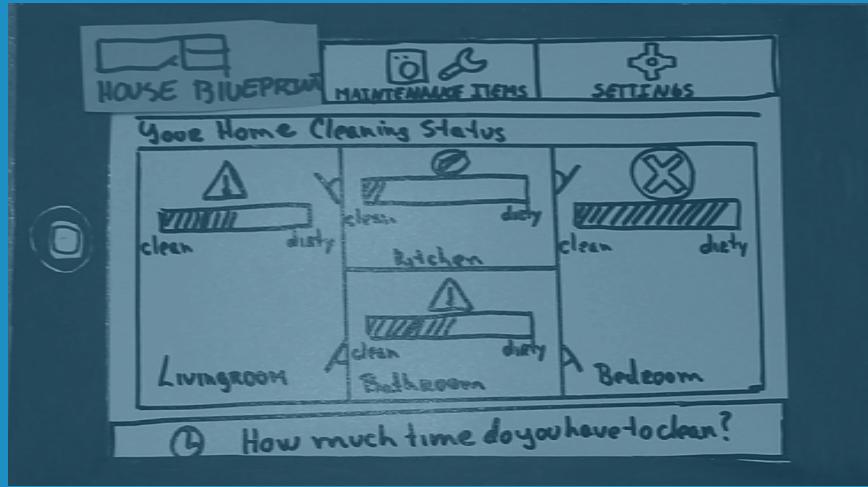
Usability Testing Results





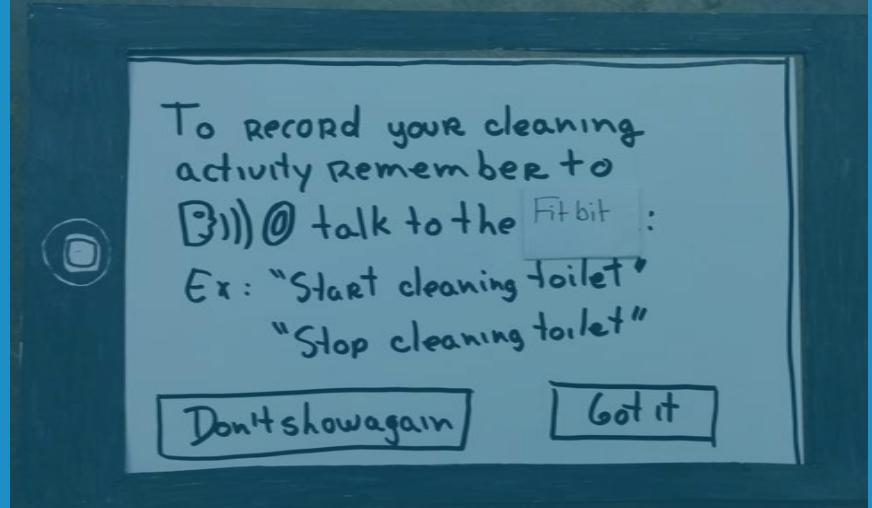
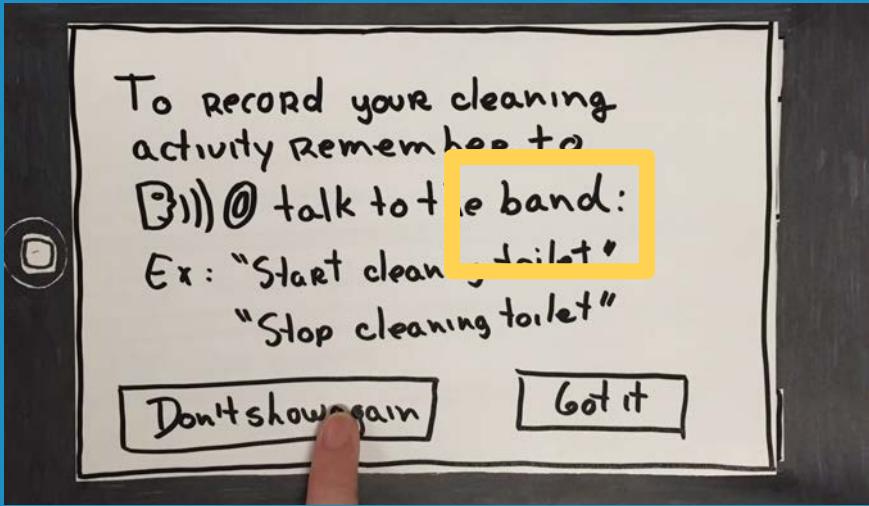
Button was not perceived as a button





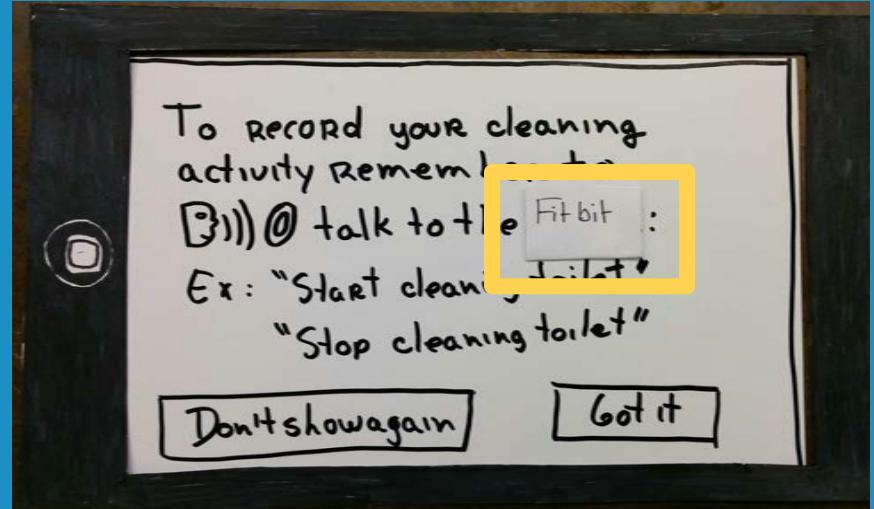
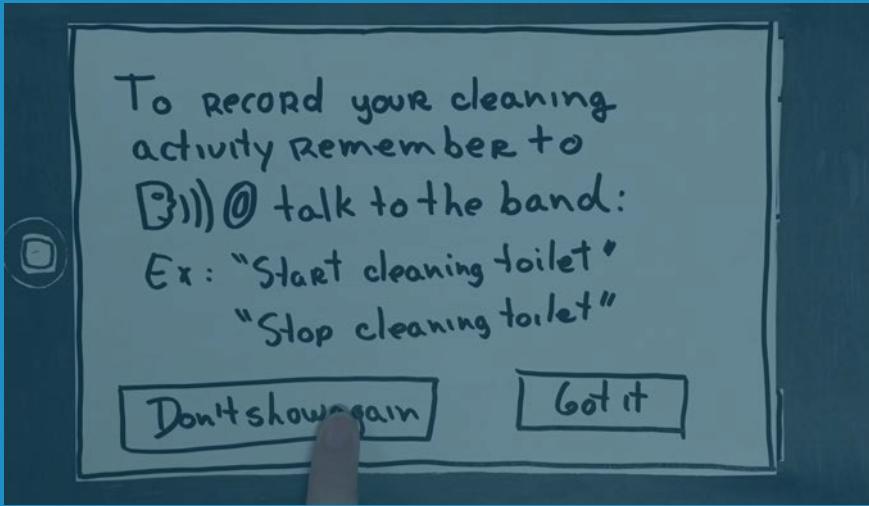
Button was not perceived as a button





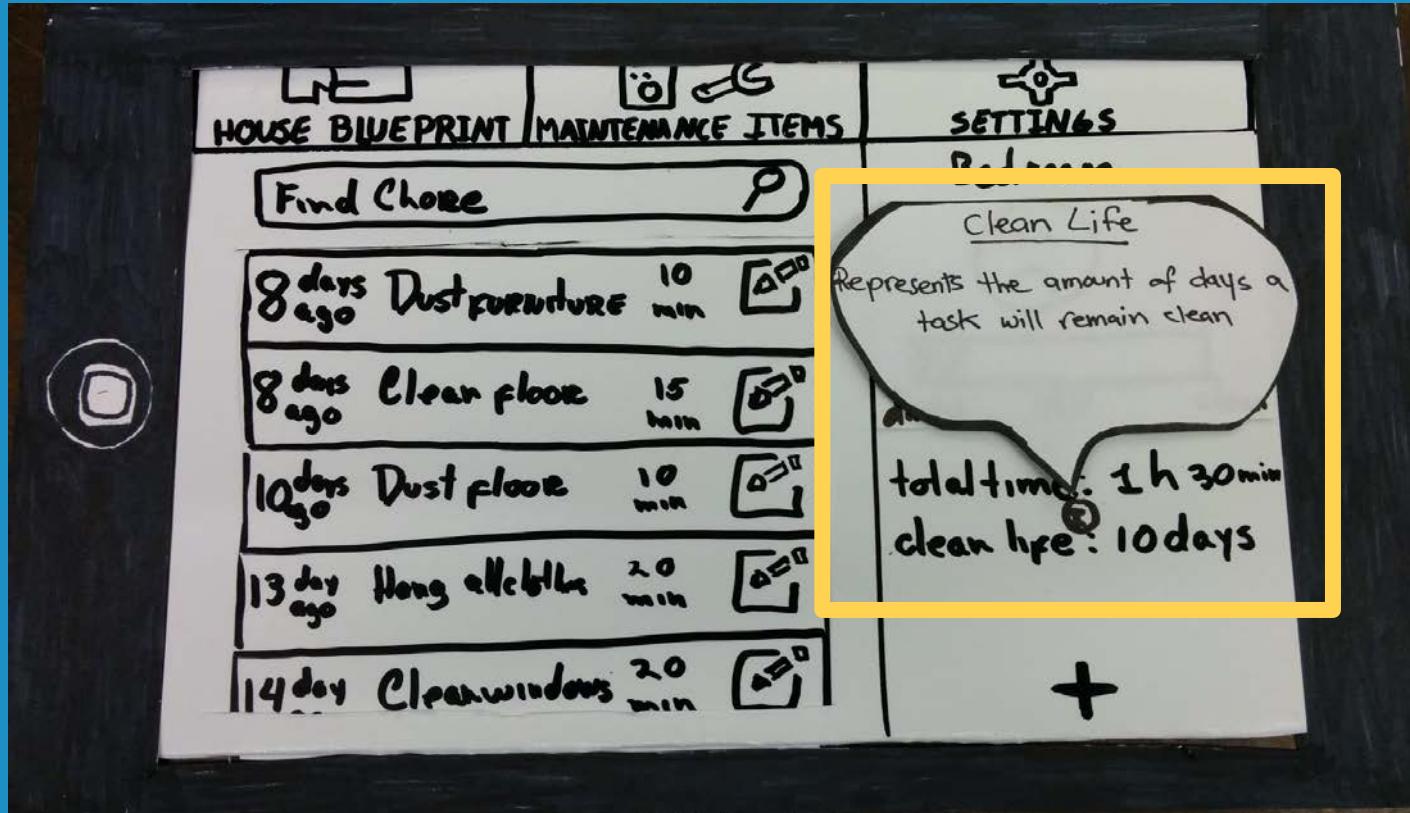
Proprietary wearable adds complexity





Proprietary wearable adds complexity

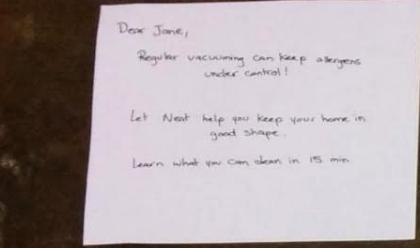




Unclear terminology

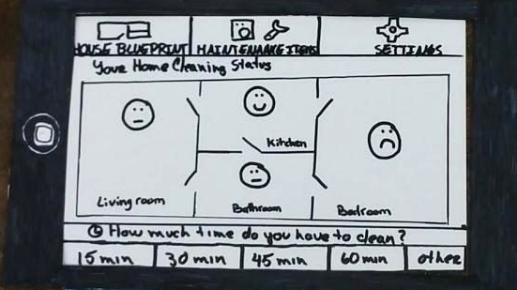
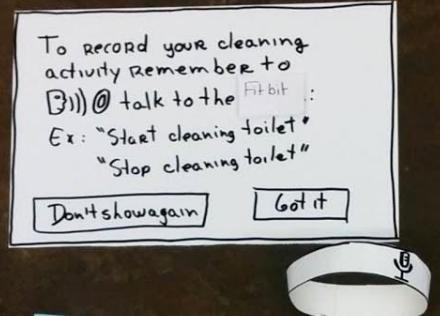


FINAL PAPER PROTOTYPE



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

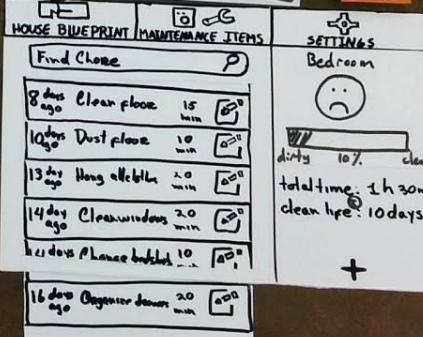
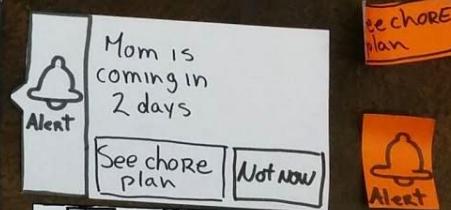
Chore Name: Clean bathroom sink

Room : Bathroom

Clean life: 5 days

Duration : 12 min

Cancel **SAVE**



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.



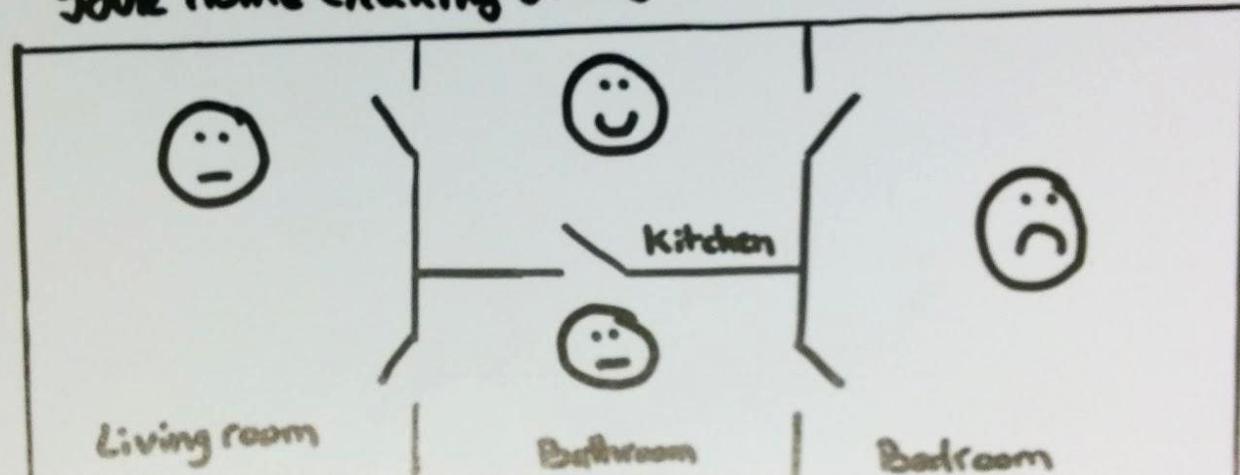


HOUSE BLUEPRINT MAINTENANCE



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



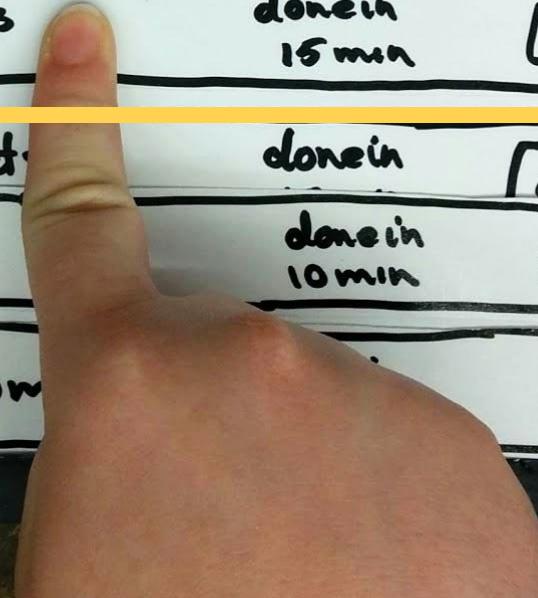
8 days ago

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

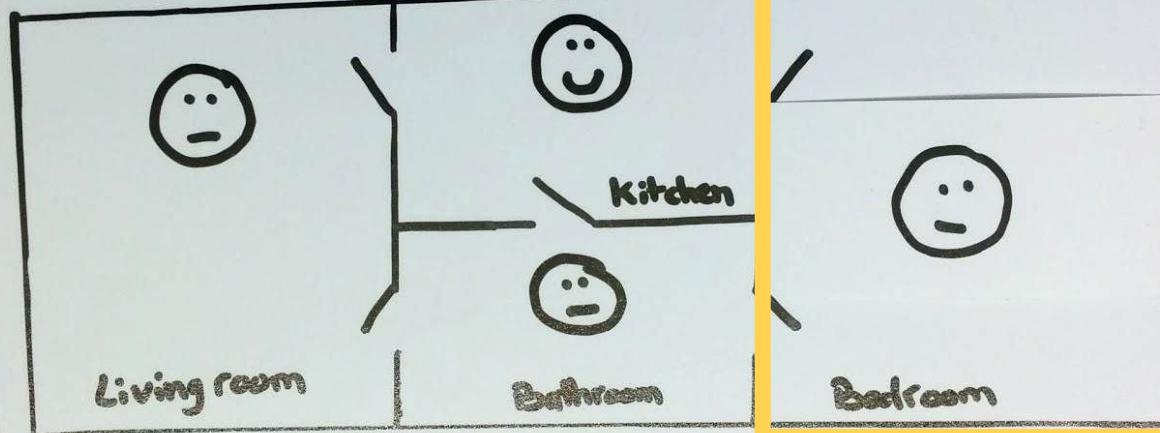


HOUSE BLUEPRINT MAINTENANCE ITEMS



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

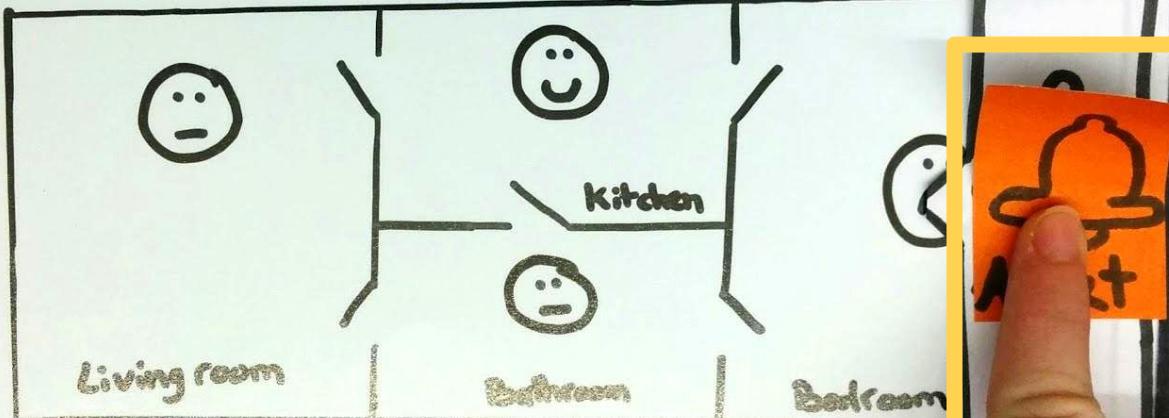


Maintenance Items



SETTINGS

Your Home Cleaning Status



⑤ 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

How many

15 min

30 min

45 min

60 min

other



Digital Mockup





Overview



Maintenance



Settings



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



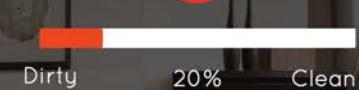
:: 8

Wash curtains

15 minutes



Bedroom



Total Time: 1h 30m

Clean Life: 10 Days

New Chore





Overview



Maintenance



Settings



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

Vacuuming

15 minutes

:: 9
:: days ago

Cleaning

15 minutes

:: 9
:: days ago

Dusting

15 minutes

:: 12
:: days ago

Cleaning

10 minutes

:: 11
:: days ago

Dusting

15 minutes

:: 10
:: days ago

Cleaning

10 minutes

:: 8
:: days ago

Change sheets

10 minutes

:: 8
:: days ago

Clean lamps

15 minutes

We have noticed you vacuumed your bedroom. Great job!



What about doing something else now that you are in a cleaning mood?

No, thanks**Ok**



Overview



Maintenance



Settings



Bedroom



How many minutes do you have to clean? - 15 + View





Overview



Maintenance



Settings



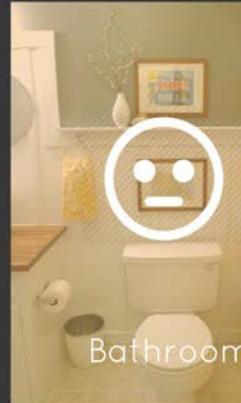
Kitchen



Living Room



Bedroom



Bathroom



How many minutes do you have to clean?

- 15 +

View





Overview



Maintenance



Settings



Mom is coming in 2 days!

NOT NOW



SEE CHORE PLAN



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?