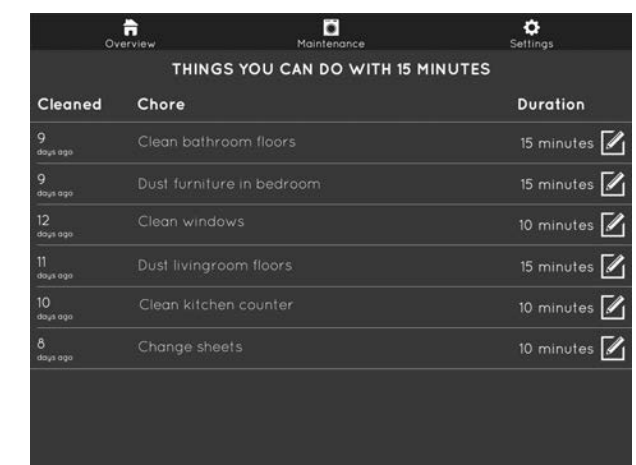
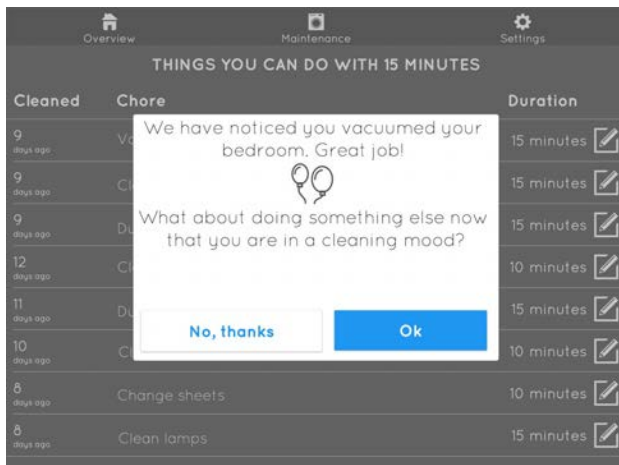
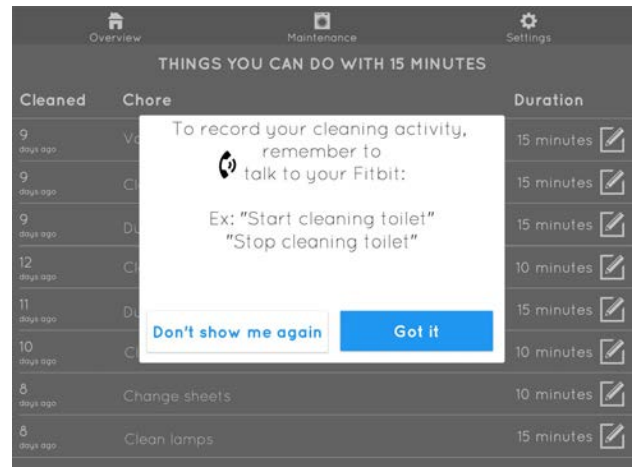
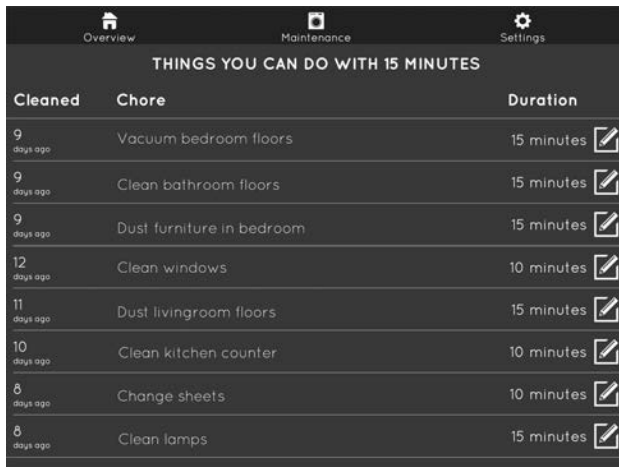
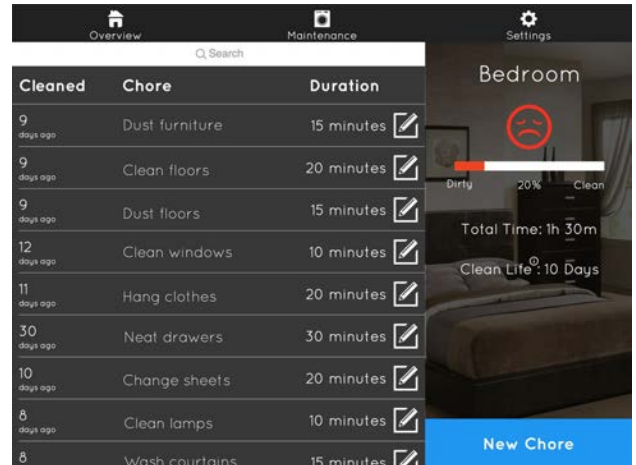
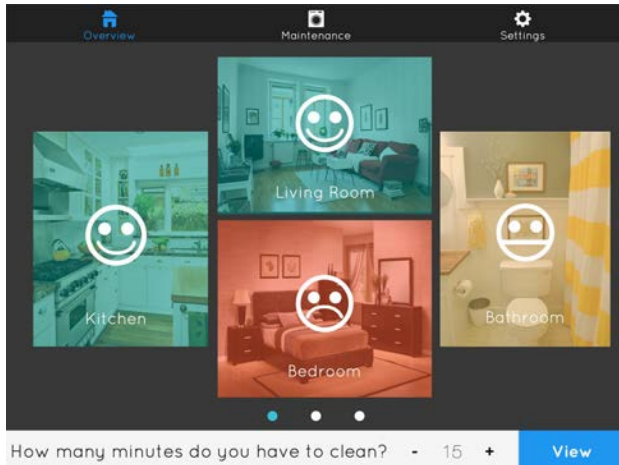
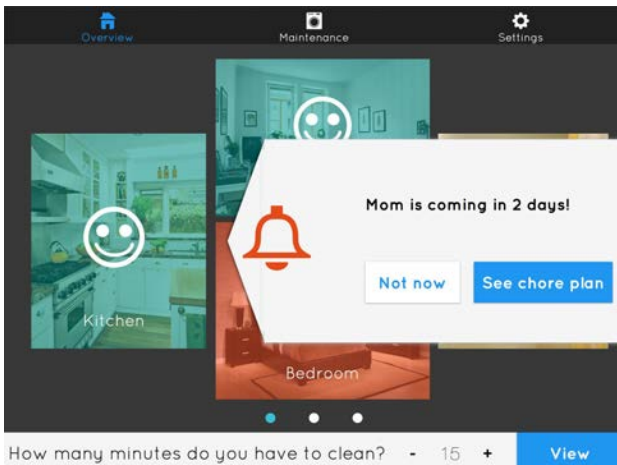
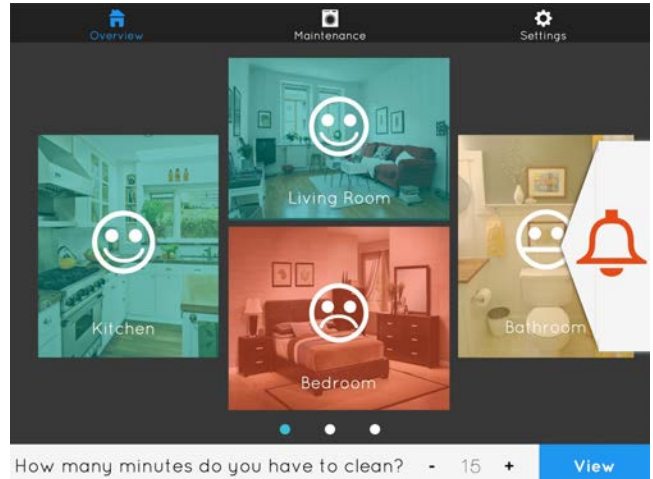
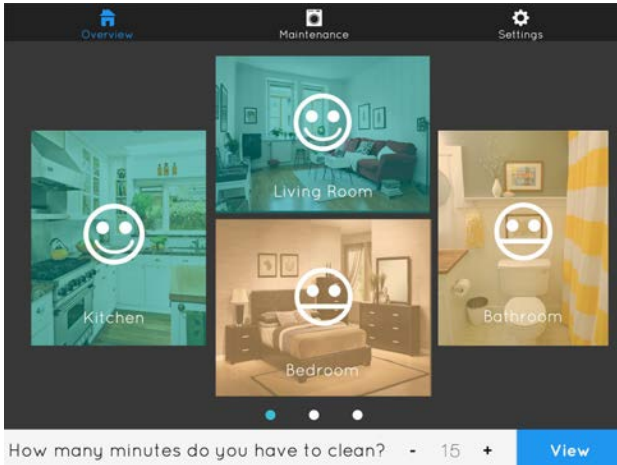


Assignment 3b: Usability Check-In

(Neat) Yoanna Dosouto, Siddhartha Gorti, Andrew Tat & Doaa Alsharif

Overview ([Link to our prototype](#))





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

Overview Maintenance Settings

Cleaned Today Today Tomorrow Tomorrow Tomorrow Friday Friday

Chore Name: Organize Closet

Room: Bedroom

Clean Life: 30 days

Duration: 40 minutes

Cancel Save

New Chore

Overview Maintenance Settings

Cleaned Today Today Tomorrow Tomorrow Tomorrow Tomorrow Friday Friday

Clean life

Represents the amount of days a task will remain clean

Organize Closet

Bedroom

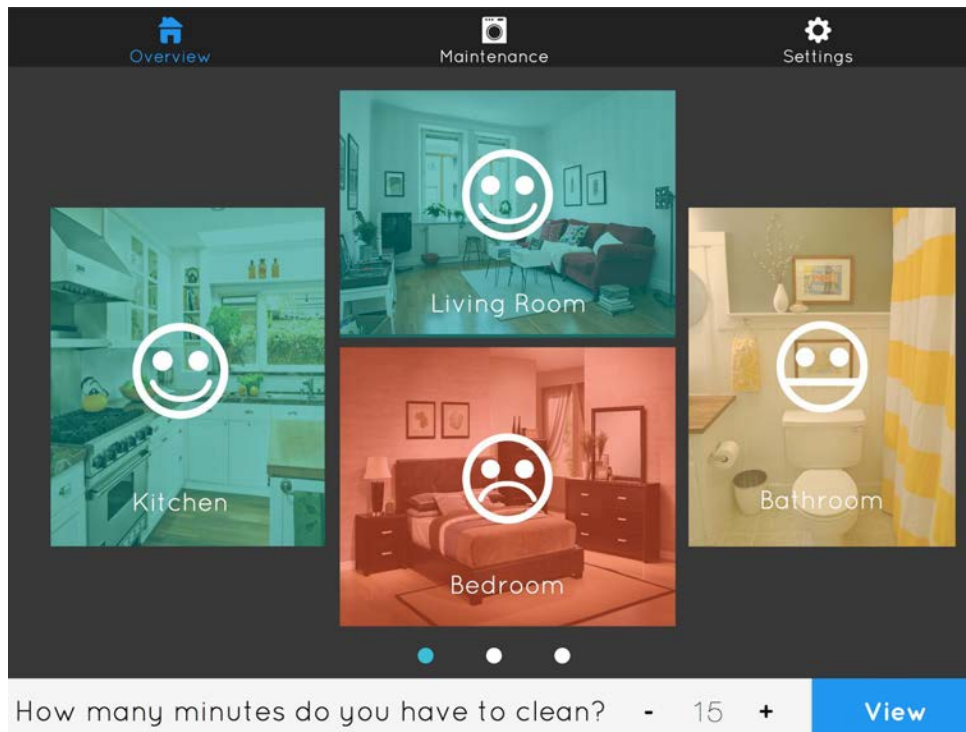
Clean Life: 30 days

Duration: 40 minutes

Cancel Save

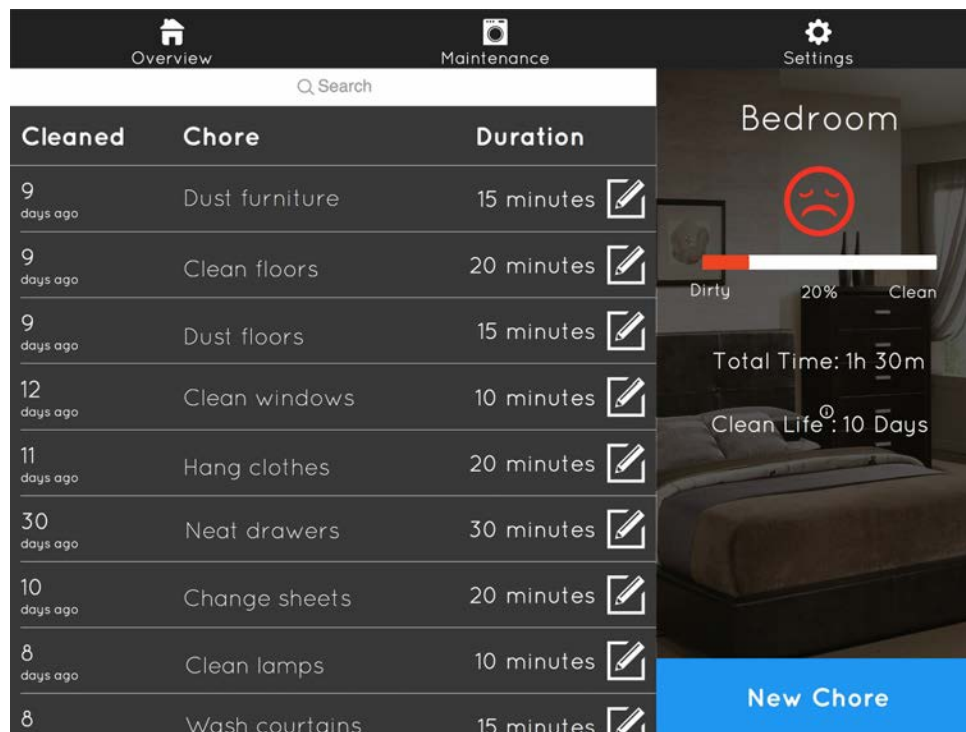
New Chore

Task One: Promote Cleaning Activities during Idle and Small Chunks of Times

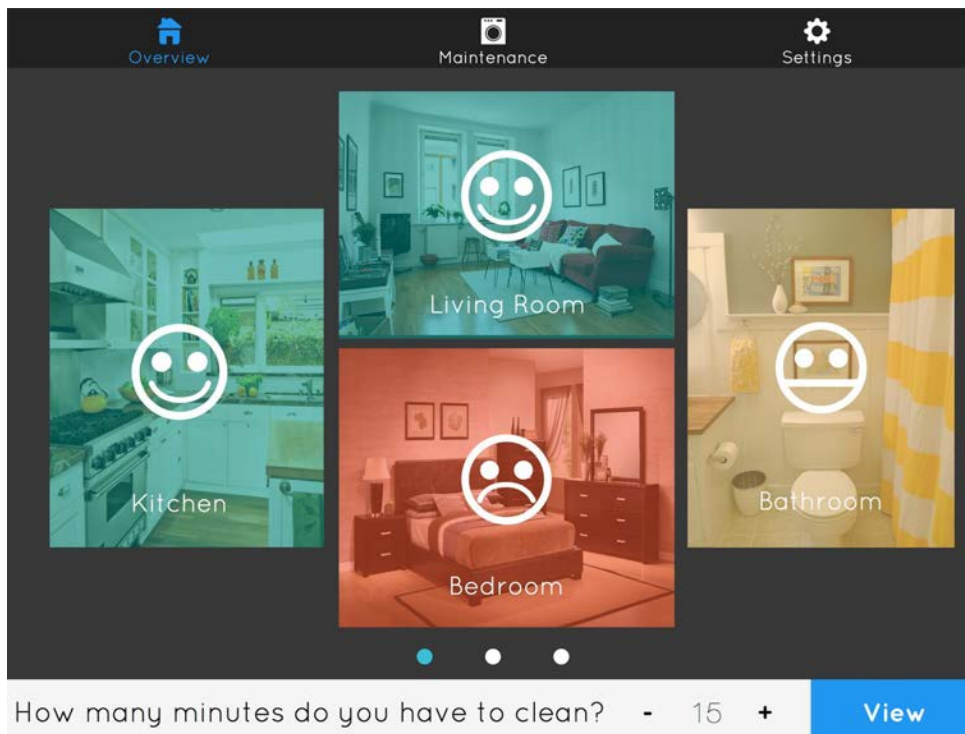


User will be encouraged to clean using messages in other smart devices around the house.

The home screen offers the overall cleaning state of the house.



To determine what to clean user can tap on the room that they think requires more attention, in this case the bedroom and pick a task to do that fits the time they have. User can sort the list by duration by tapping the duration label.

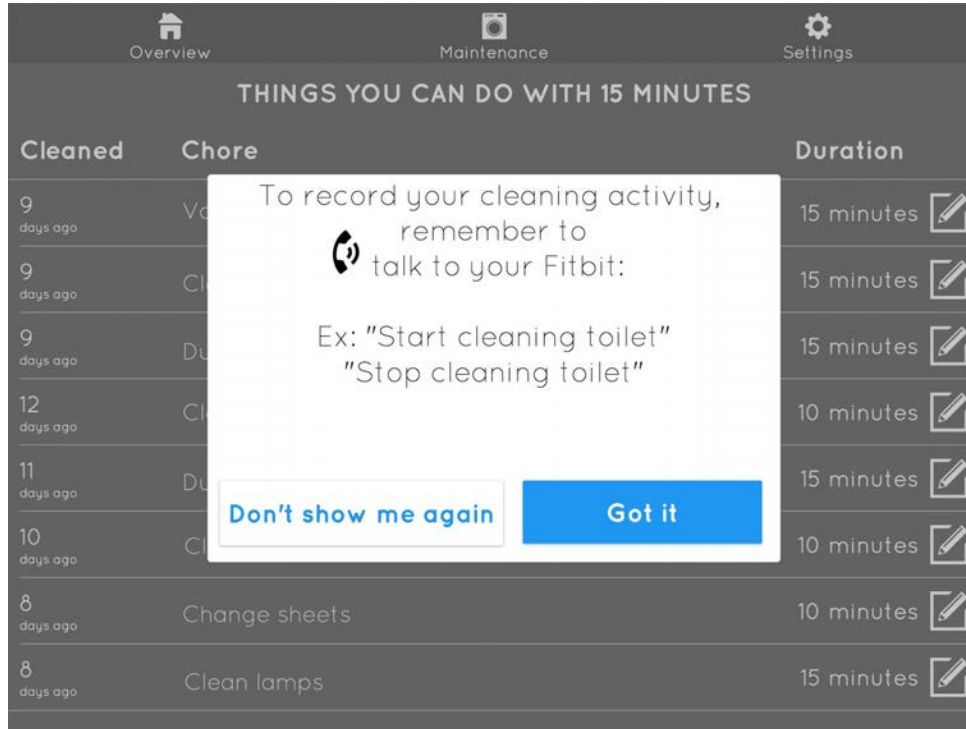


They can also use the spin button at the bottom to determine what to do, for example in under 15 minutes. They will select the available time they have and then tap "View" to see suggestions of what can be achieved in that time.

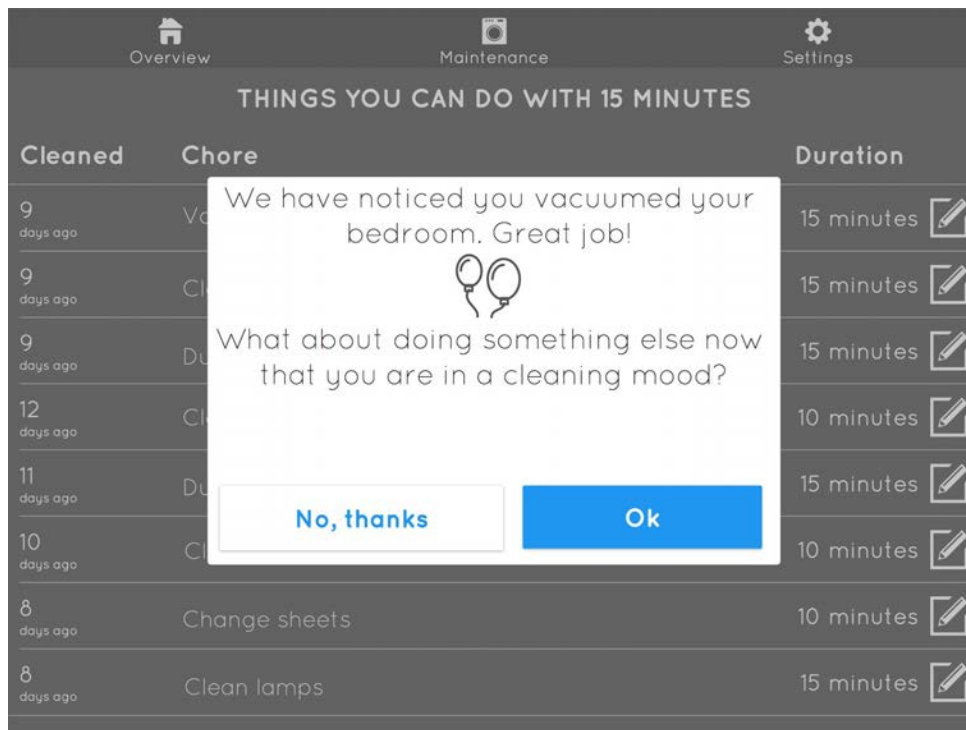
The screenshot shows a list of chores titled "THINGS YOU CAN DO WITH 15 MINUTES". The list has three columns: "Cleaned", "Chore", and "Duration". Each row includes a date (e.g., "9 days ago"), a chore description, and a duration with an edit icon.

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

Neat will offer a list of chores that can be accomplished in under 15 minutes listed in more beneficial order to the overall cleaning state of the house. If the user thinks any of the information is wrong they have the freedom to edit tasks through the edit button.



After tapping on a potential task the user is presented with instructions on how to record the cleaning metrics. After user gets how to operate the wearable they can select the "Don't show me again" button.



After the user performs the cleaning activity the fitbit will sync with the Neat system and it will encourage the user to do some more cleaning now that they are in a cleaning mood. In this scenario the user will say yes and perform another task from the 15 minute suggestions..

Cleaned	Chore	Duration
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 

Since the user did some cleaning the cleaning list of what can be done in 15 minutes will update.

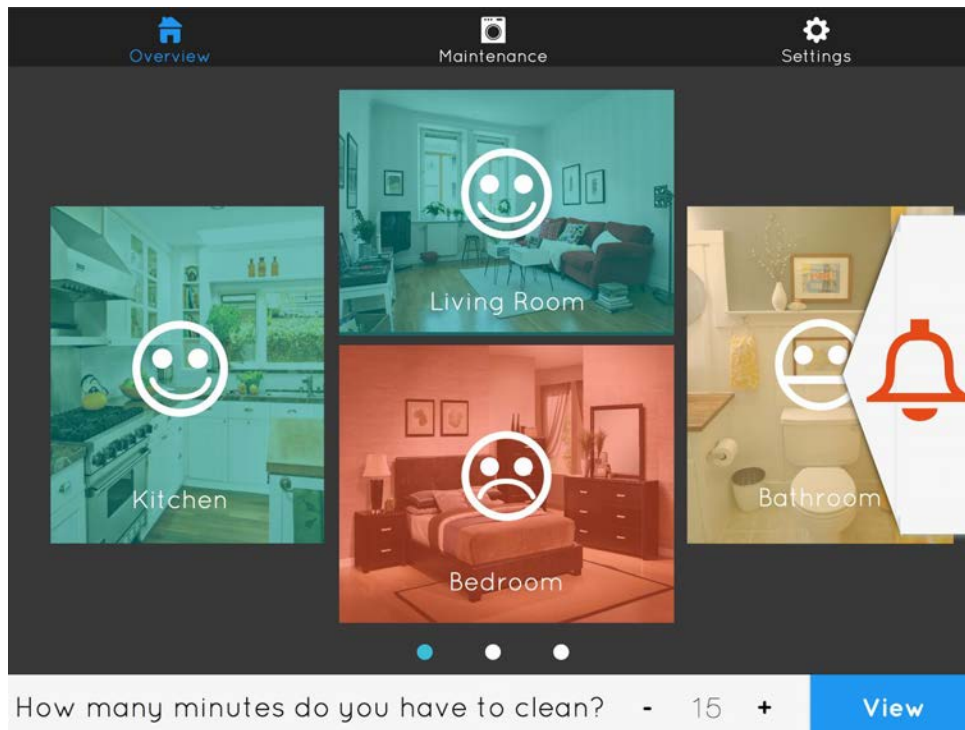
Overview Maintenance Settings

Kitchen Living Room Bedroom Bathroom

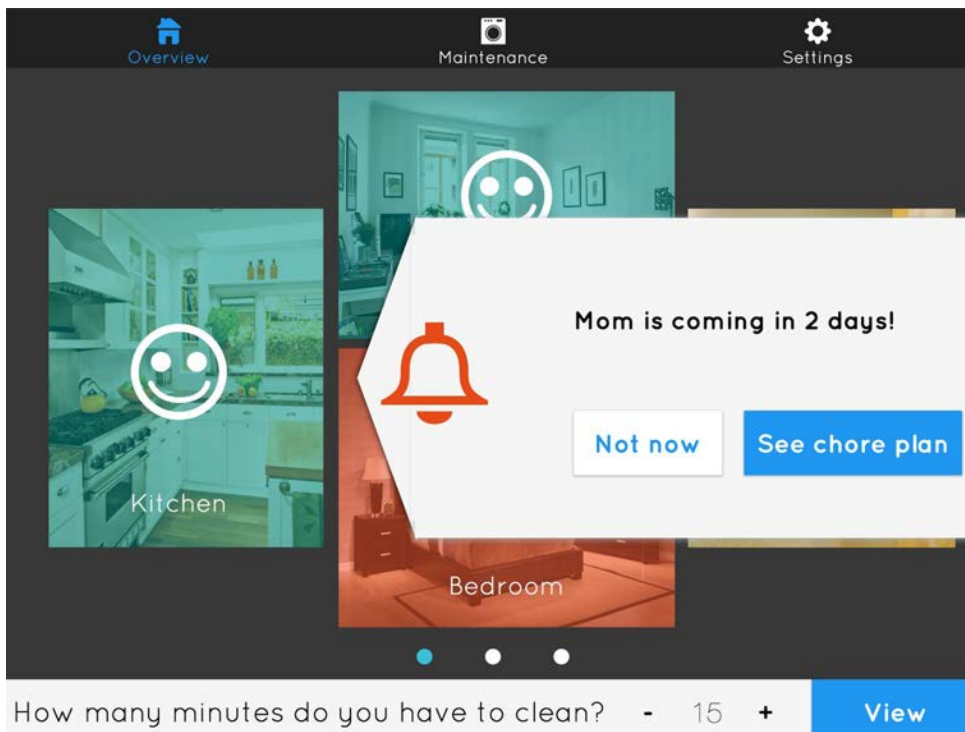
How many minutes do you have to clean? - 15 + View

Because the user performed some cleaning the overall cleaning state of the house will update as well. The bedroom is now less dirty.

Task Two: Prevent a Messy Home when Receiving Visitors



After reading your emails and text messages Neat detects someone is coming and displays an alert on the home screen.



After swiping left the alert now covers some of the screen and displays alert details. User selects "See chore plan".

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](#)

After tapping on “See chore plan” the user will be shown the chores that must be completed to have the house ready for mom’s arrival. The user can rearrange the plan by dragging and dropping chores.

Chore Name:

Room:

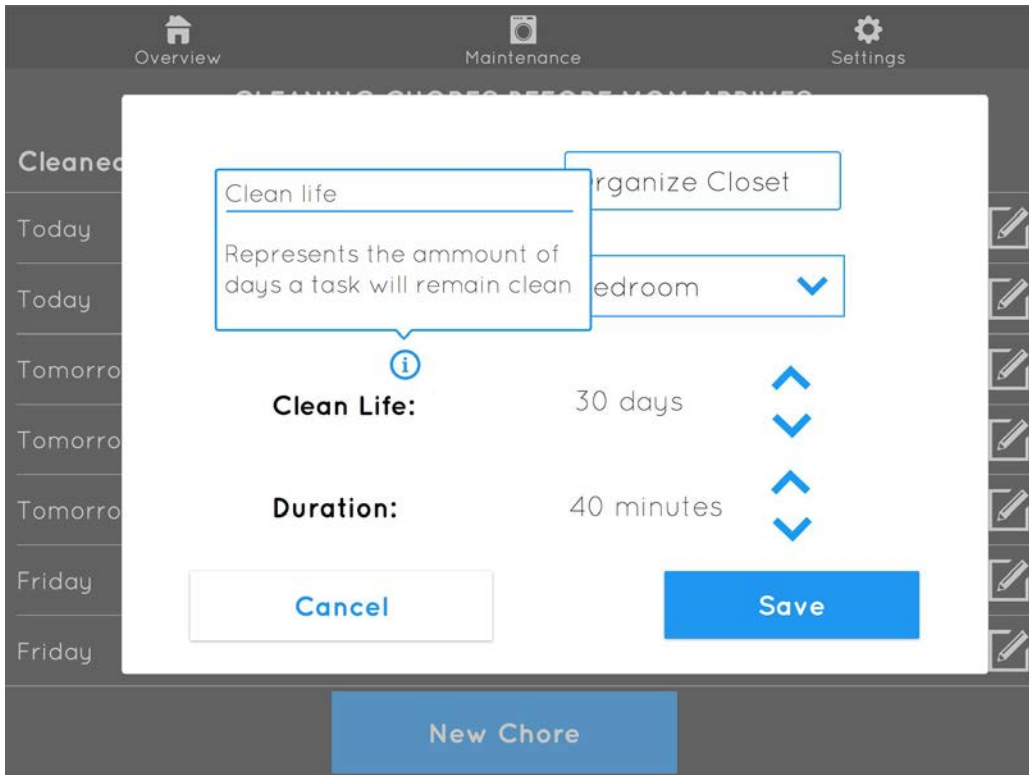
Clean Life: (i) 30 days

Duration: 40 minutes

[Cancel](#) [Save](#)

[New Chore](#)

If the user does not see a chore that they think it should be on the plan they can create a “new chore” by tapping the new chore button and this window will appear.

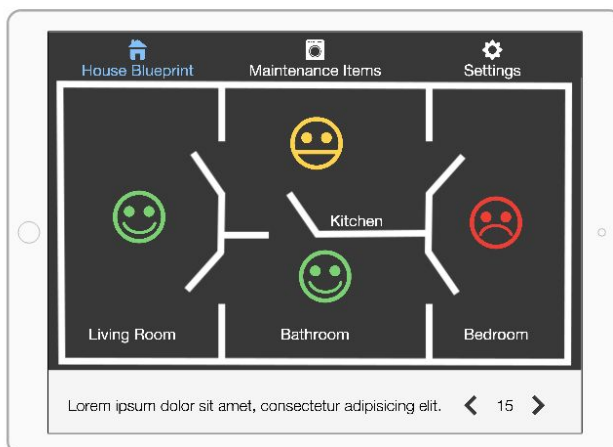


The user can get clarification of some of the terminology of the system through tooltips.

Changes made during implementation

We performed two major changes when we translated the paper prototype into a digital mockup. For our first change, we initially had a blueprint with the shape of the house on the main screen. Our plan was to display the status of each room inside the corresponding room of the blueprint. However, when we looked for actual digital blueprints of a house, we realized that some rooms were

too small to put encodings inside of the room.



We played with several alternatives, such as making an abstract blueprint (Figure 1). However, using an abstract blueprint defeated the purpose of representing the user's actual home. We decided to go with the tile alternative. Each tile contains a picture of the room on the house of the user that is referring to. In this representation, the color overlay and the faces serve as a double encoding for the cleaning

Figure 1. Abstract representation of the blueprint

state of the room, making the status more obvious.

Our second change was also on the main screen. We took advantage of an element that can be conveyed easier in a digital medium. Instead of having five different buttons for 15, 30, 45, 60 minutes we decided to use a spin button that increments or decrements by 15 minutes. To make sure this change was not going to affect the usability of our product, we performed a quick user test of the home screen and the button functionality with two users. They recognized that they could use the + and - buttons to select the time they have available for cleaning.