Jacob Rader

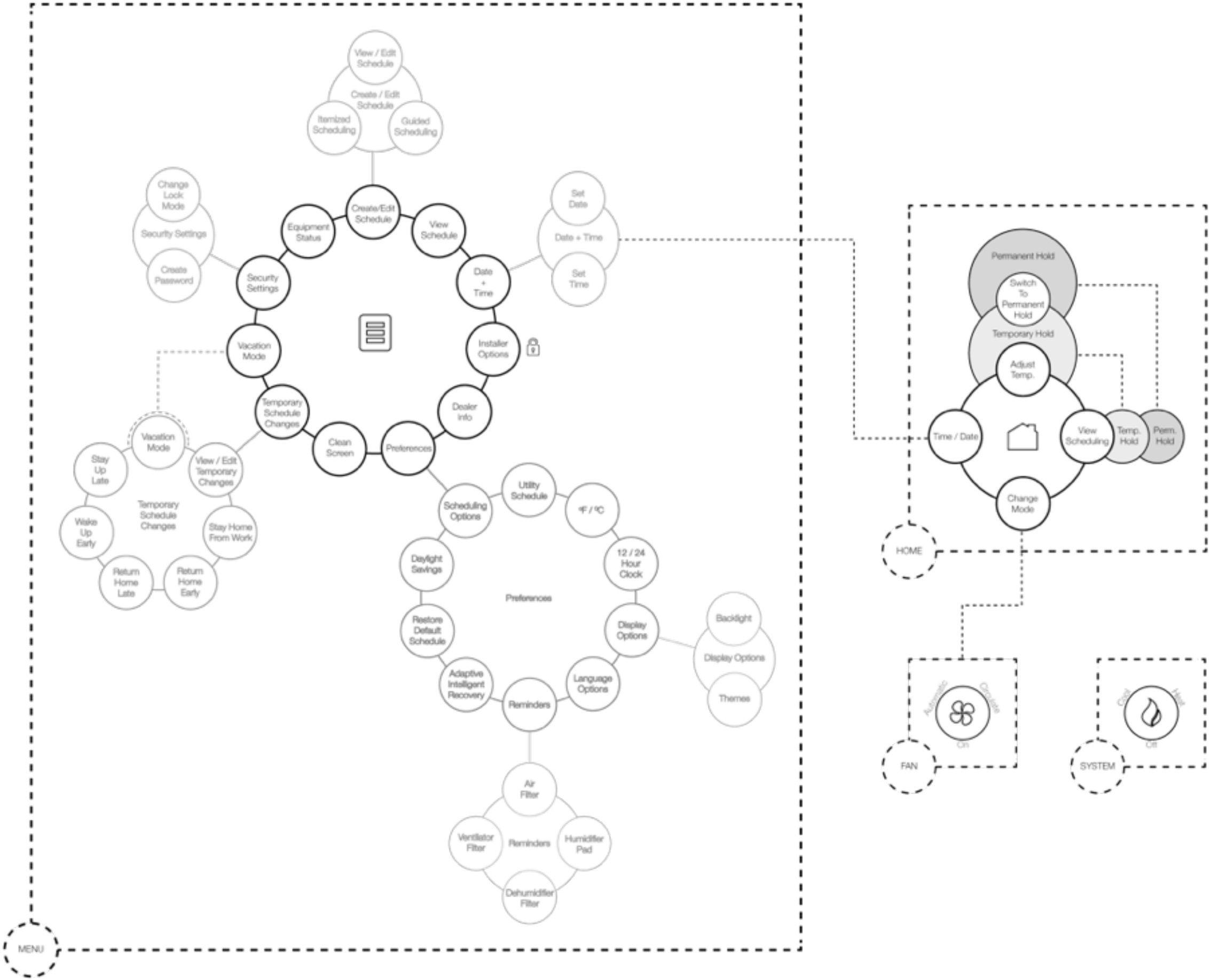
Simplicity

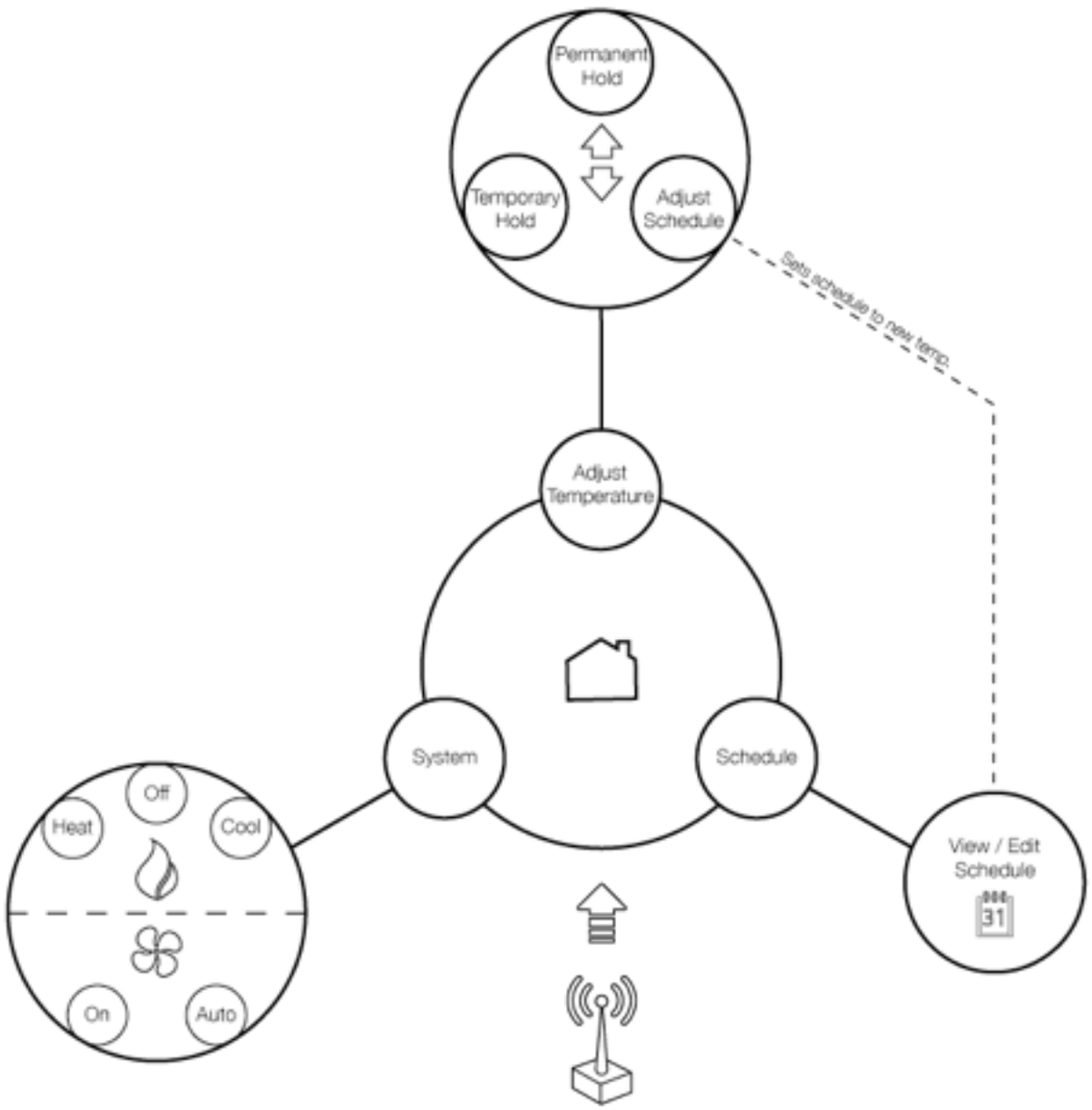
In Home Appliance Design

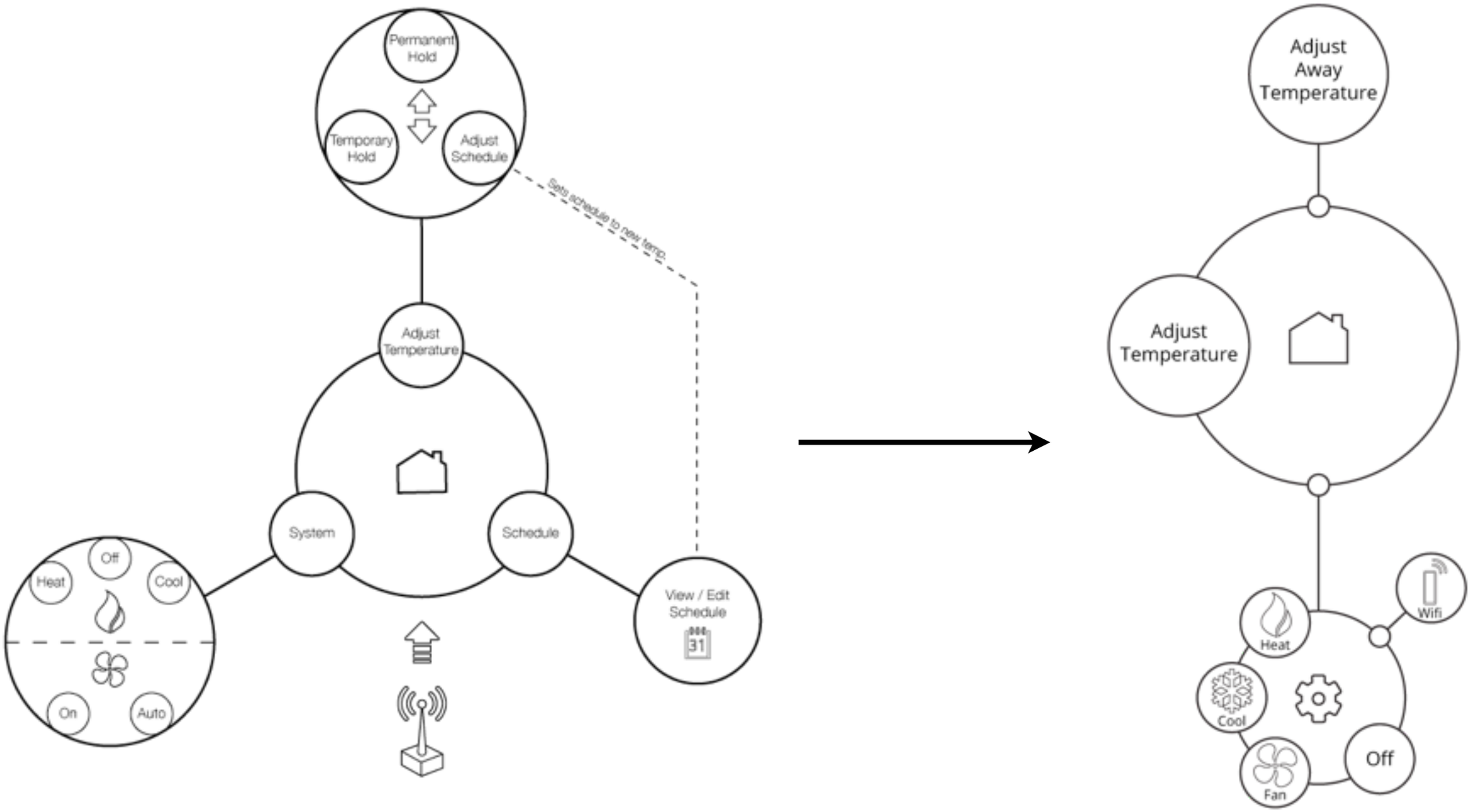
ac4d
Austin Center for Design

Good design is as little design as possible

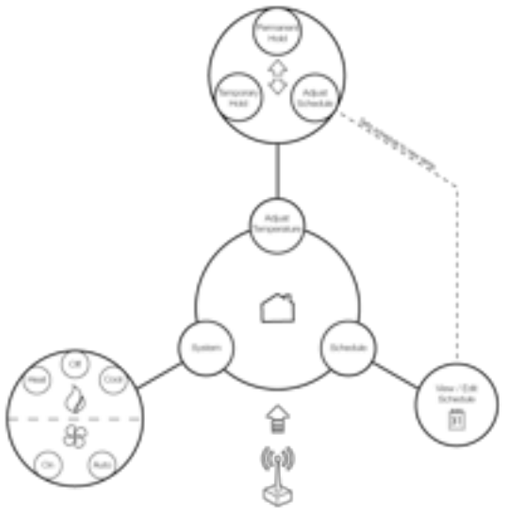
Less But Better


View / Edit Schedule
Create / Edit Schedule
Itemized Scheduling
Guided Scheduling
Create/Edit Schedule
View Schedule
Date + Time
Installer Options
Dealer Info
Preferences
Clean Screen
Temporary Schedule Changes
Vacation Mode
Security Settings
Equipment Status
Change Lock Mode
Security Settings
Create Password
Set Date
Date + Time
Set Time
Vacation Mode
Stay Up Late
View / Edit Temporary Changes
Temporary Schedule Changes
Wake Up Early
Stay Home From Work
Return Home Late
Return Home Early
Utility Schedule
Scheduling Options
°F / °C
12 / 24 Hour Clock
Daylight Savings
Preferences
Display Options
Restore Default Schedule
Backlight
Display Options
Themes
Adaptive Intelligent Recovery
Reminders
Language Options
Air Filter
Ventilator Filter
Reminders
Humidifier Pad
Dehumidifier Filter
MENU
Permanent Hold
Switch To Permanent Hold
Temporary Hold
Adjust Temp.
Time / Date
View Scheduling
Temp. Hold
Perm. Hold
Change Mode
HOME
Automatic
Circulate
On
FAN
Cool
Heat
Off
SYSTEM


Permanent Hold
Temporary Hold
Adjust Schedule
Sets schedule to new temp.
Adjust Temperature
System
Schedule
Off
Heat
Cool
On
Auto
View / Edit Schedule
31

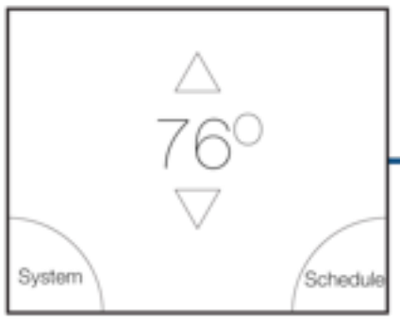

Permanent Hold
Temporary Hold
Adjust Schedule
Sets schedule to new temp.
Adjust Temperature
System
Schedule
View / Edit Schedule
31
Off
Heat
Cool
On
Auto
Adjust Away Temperature
Adjust Temperature
Heat
Wifi
Cool
Fan
Off

Process

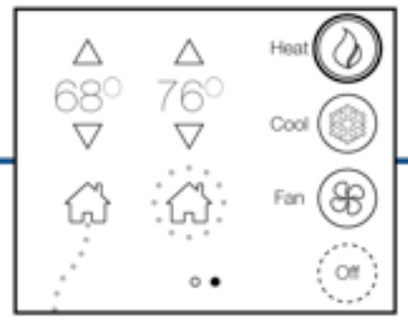


Initial Concept Model

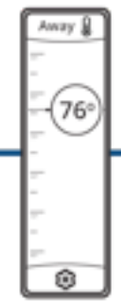
Final Concept Model



Simplicity



Form + Function



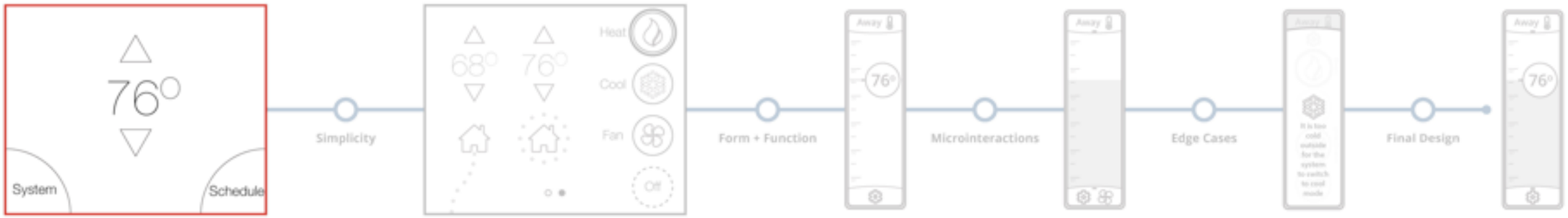
Microinteractions

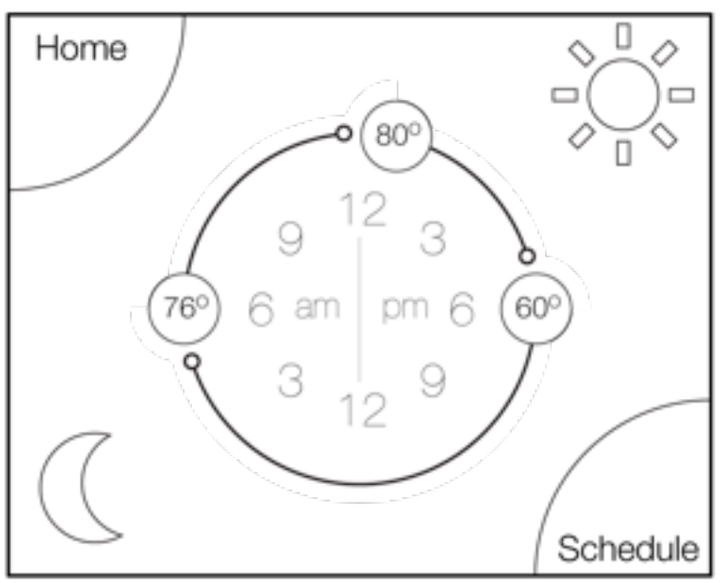
Edge Cases

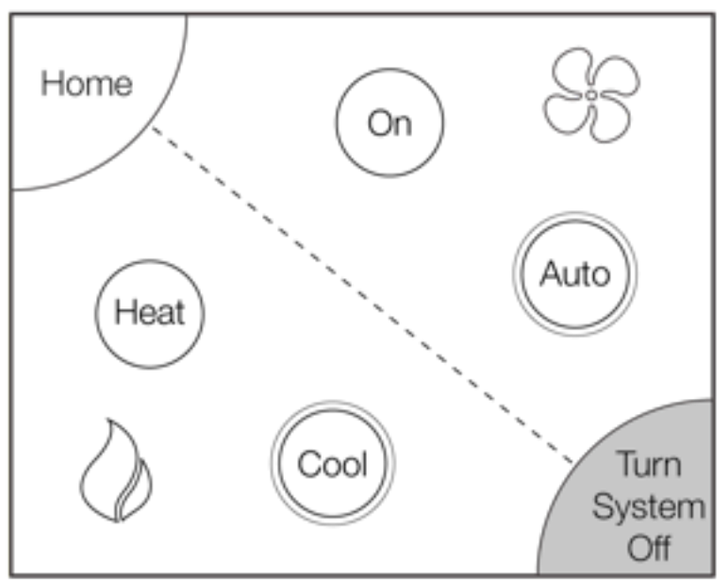
Final Design

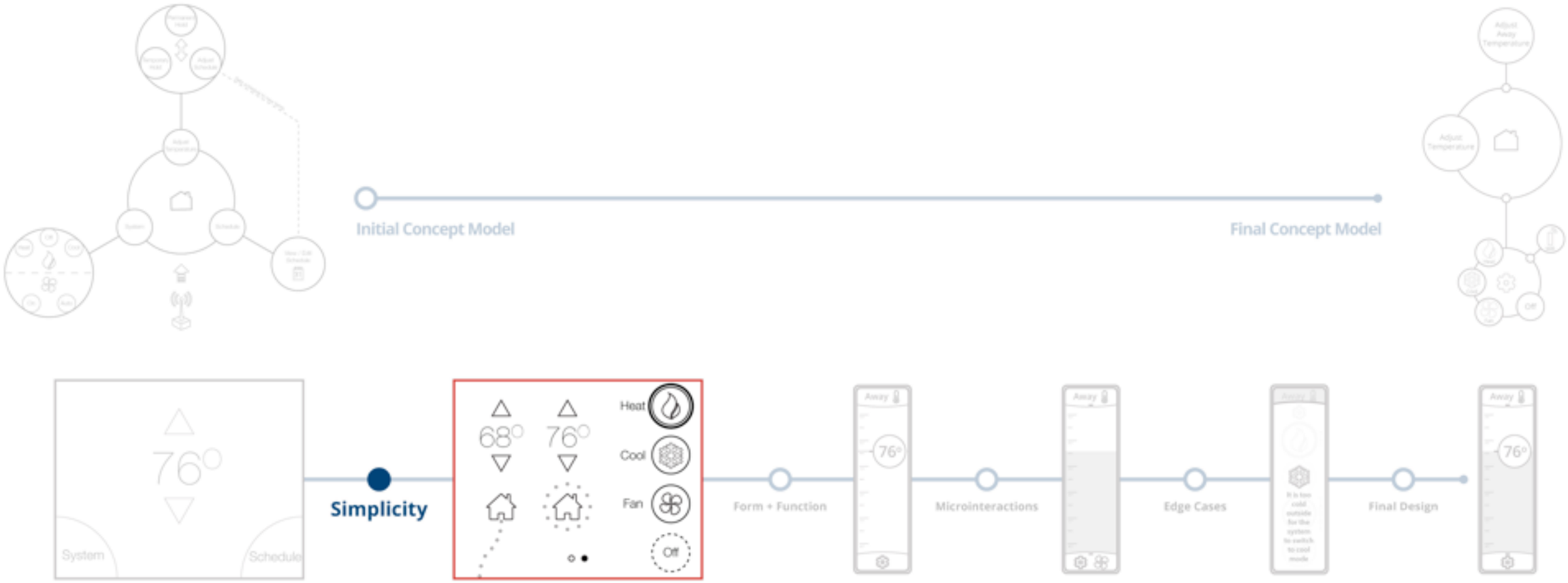
Initial Concept Model

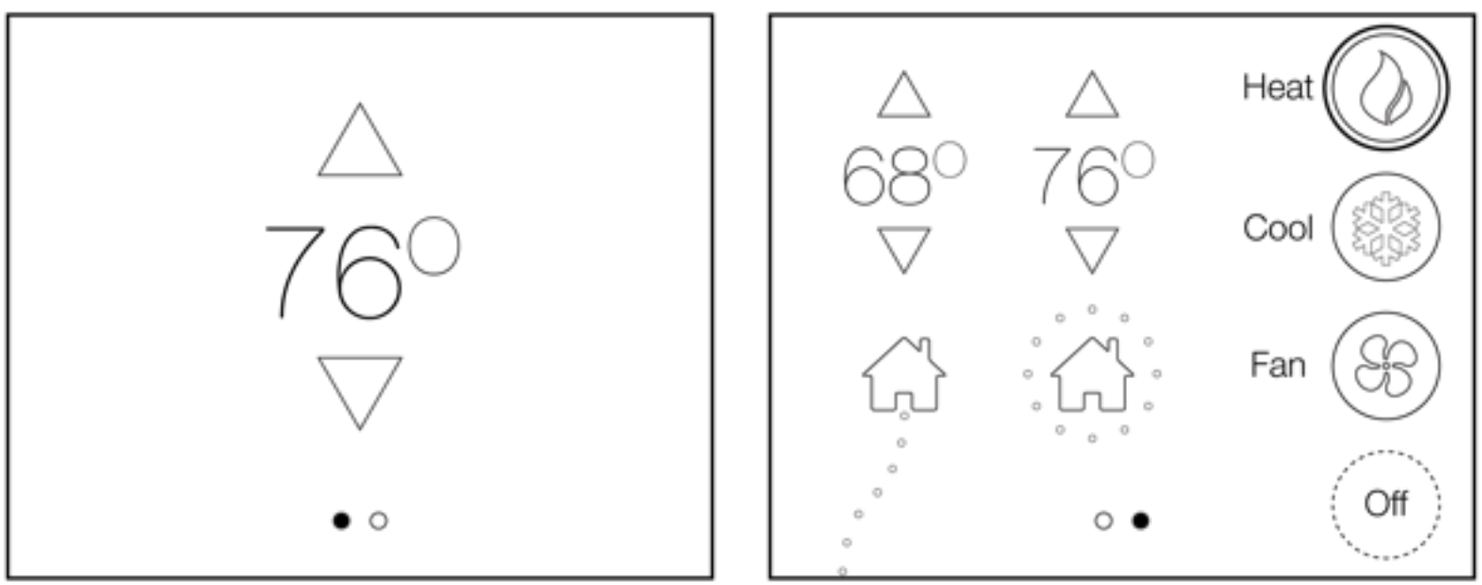
Final Concept Model

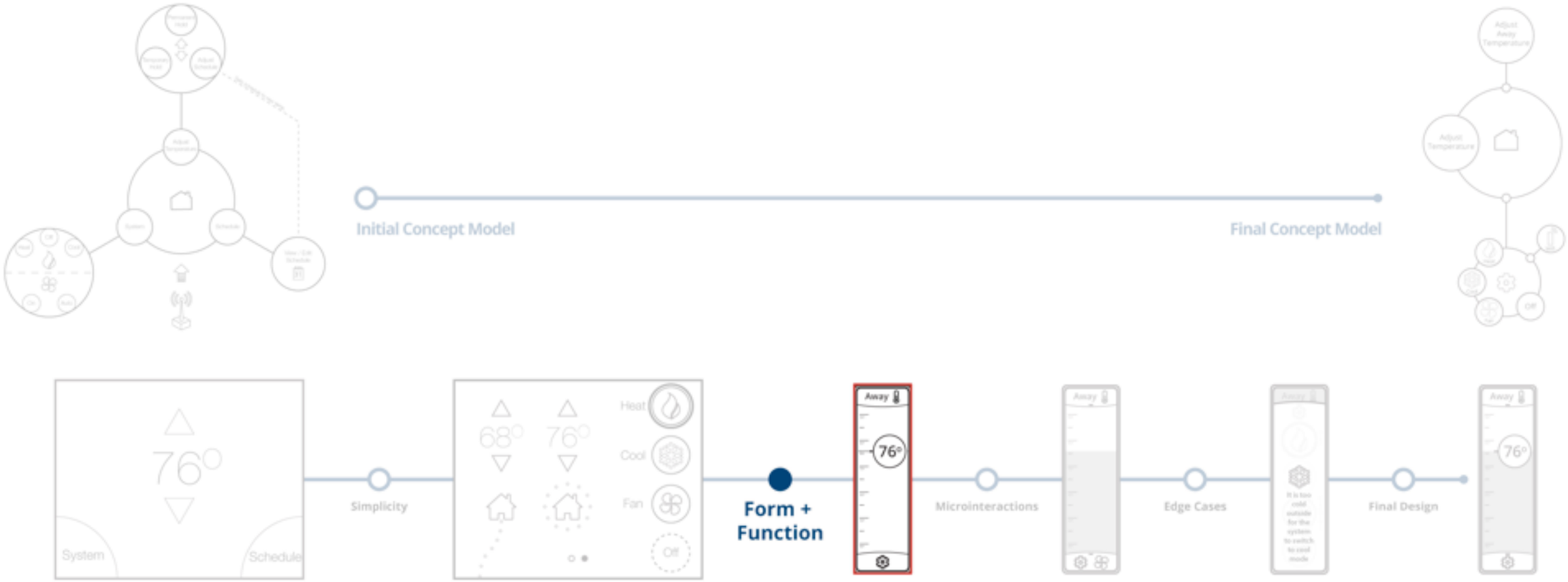


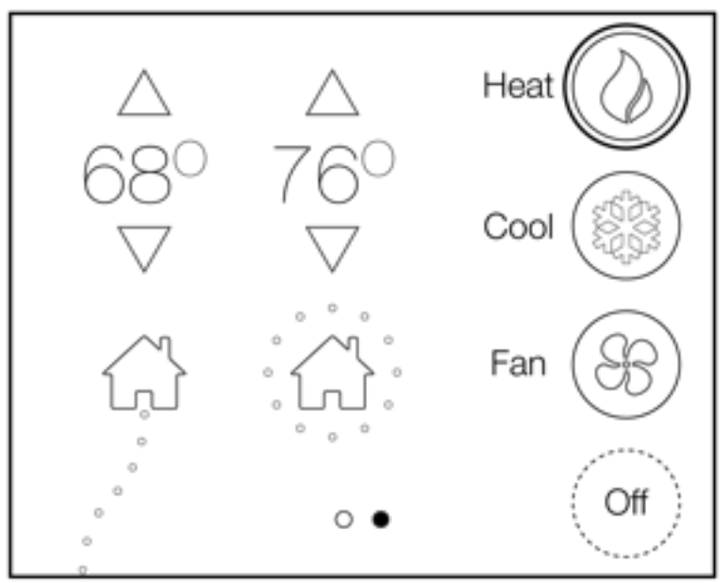





Initial Concept Model
Final Concept Model
76°
System
Schedule
Simplicity
68°
76°
Heat
Cool
Fan
Off
Form + Function
Microinteractions
Edge Cases
Final Design

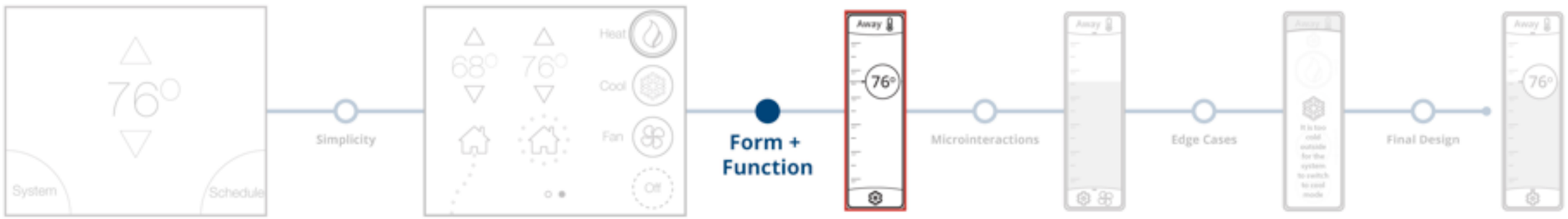

76°
68°
76°
Heat
Cool
Fan
Off

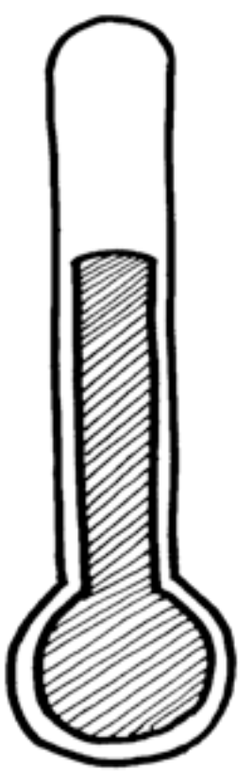

Initial Concept Model
Final Concept Model
76°
System
Schedule
Simplicity
68°
76°
Heat
Cool
Fan
Off
Form + Function
Away
76°
Microinteractions
Edge Cases
Final Design

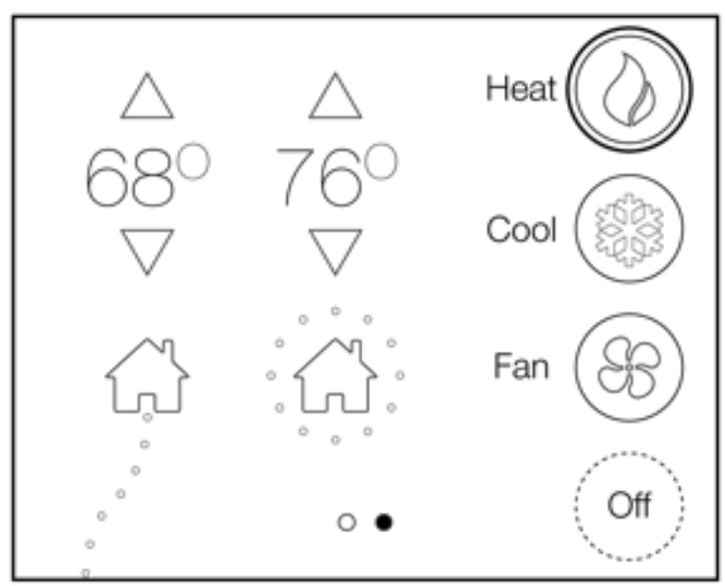

68°
76°
Heat
Cool
Fan
Off

Initial Concept Model

Final Concept Model

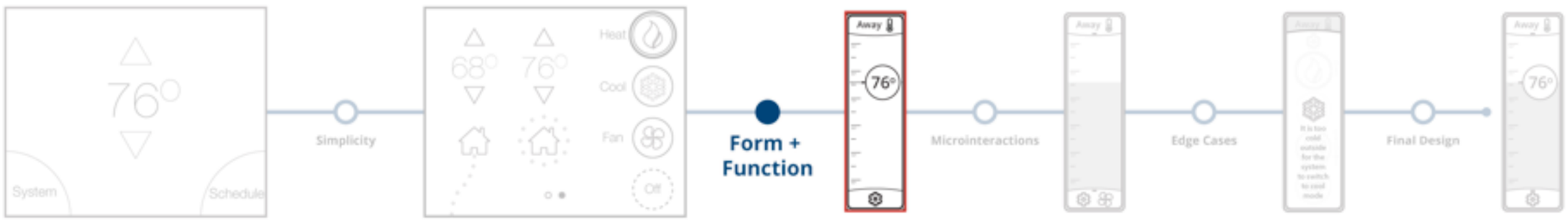


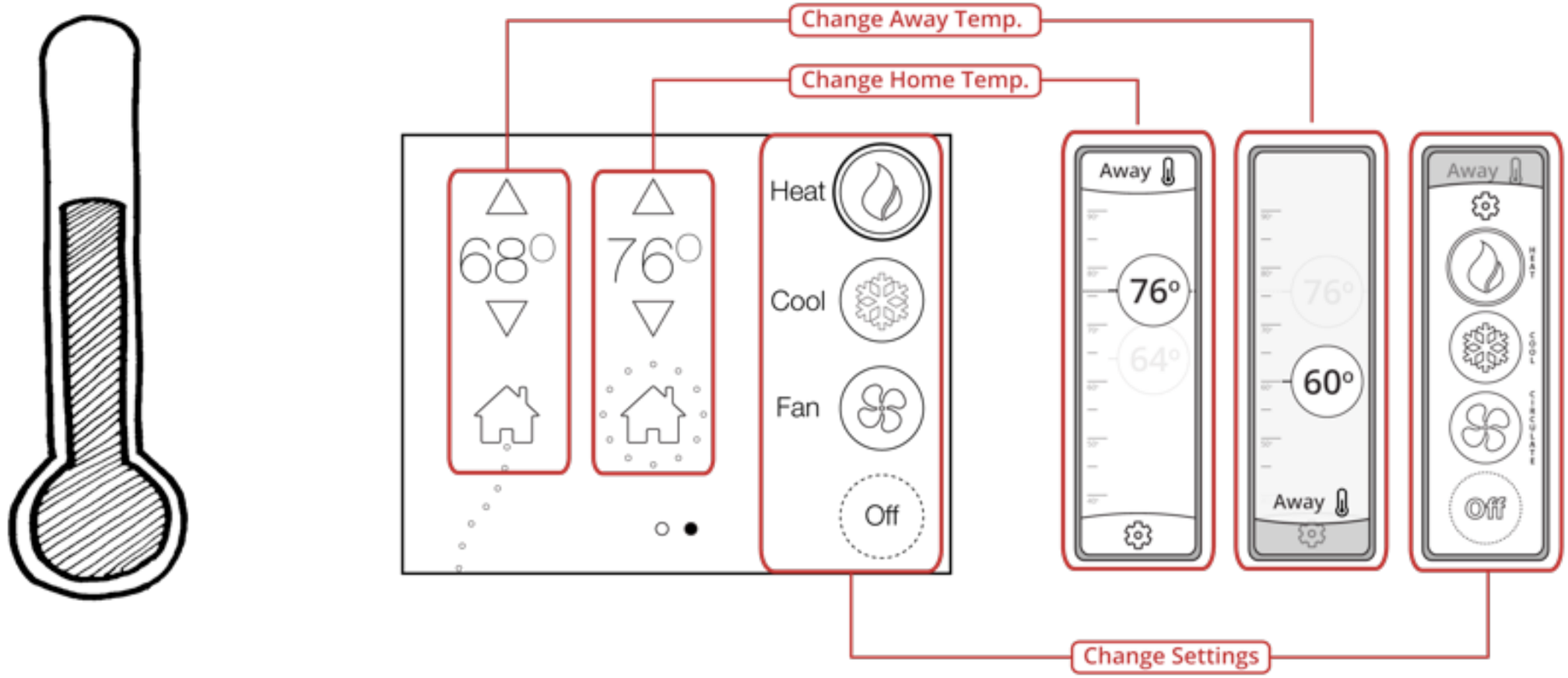




Initial Concept Model

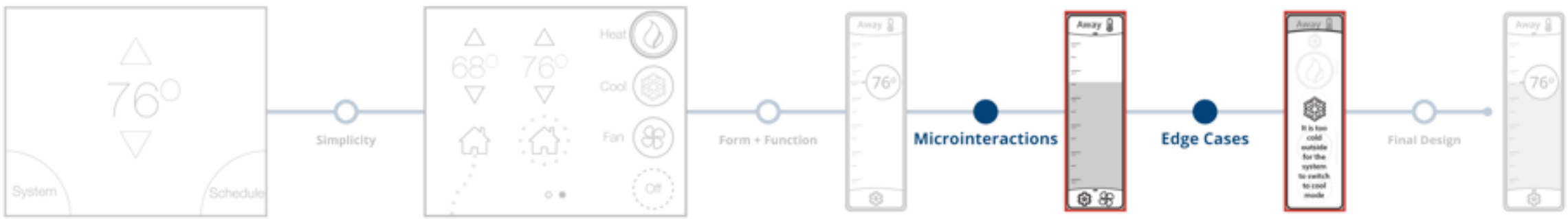
Final Concept Model



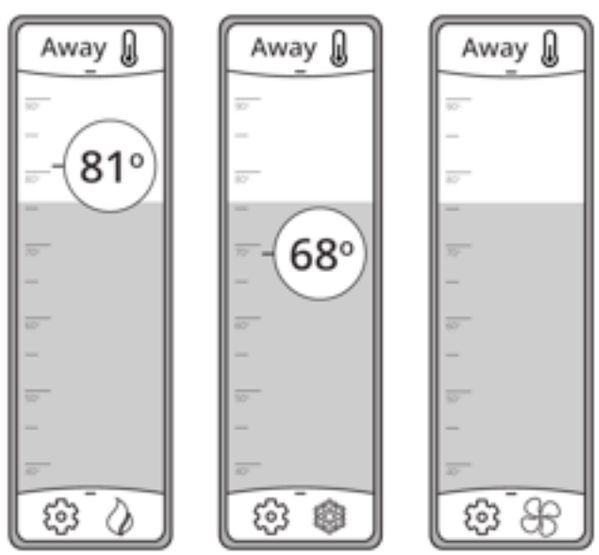


Initial Concept Model

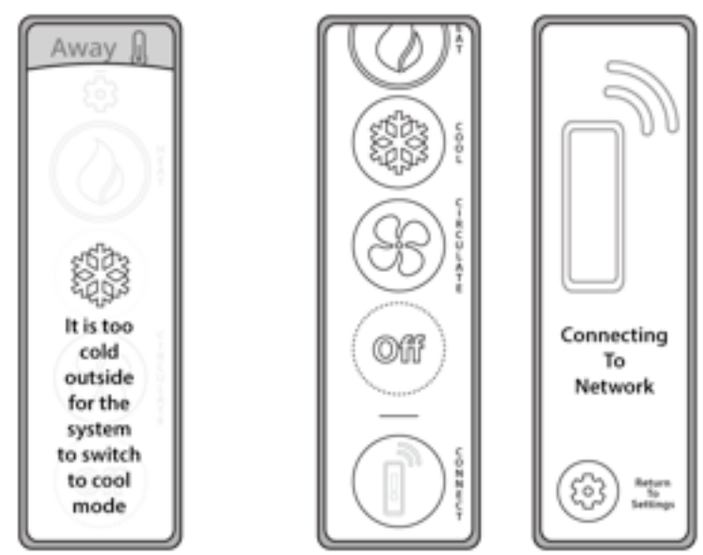
Final Concept Model

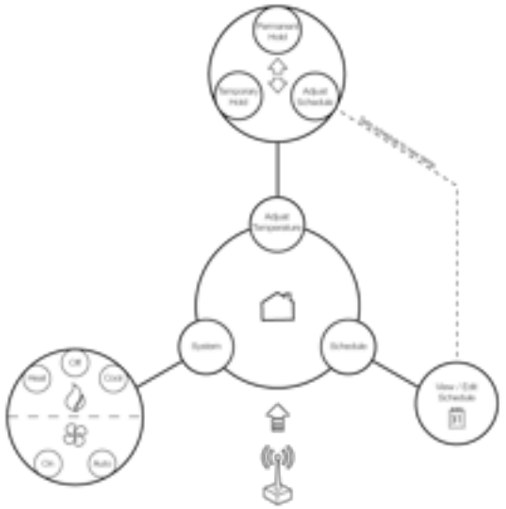


Microinteractions



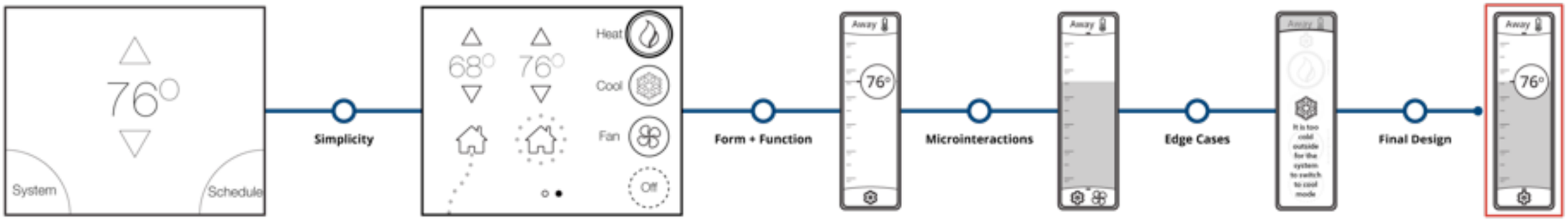
Edge Cases

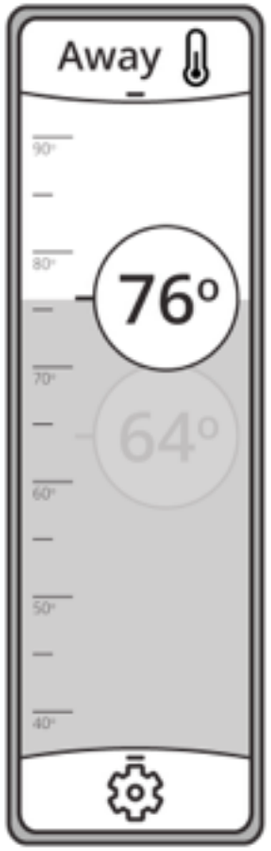




Initial Concept Model

Final Concept Model





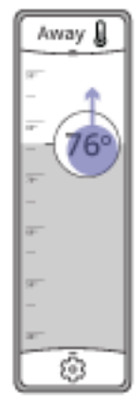
Wireframes

1 The user is hot, so they turn the temperature down.

The user adjusts the temperature by sliding the indicator bubble.

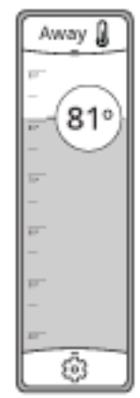
Once the user releases the bubble the "cool" icon appears and pushes the settings icon aside

As the system cools the environment, the background of the display adjusts to meet the set temperature.



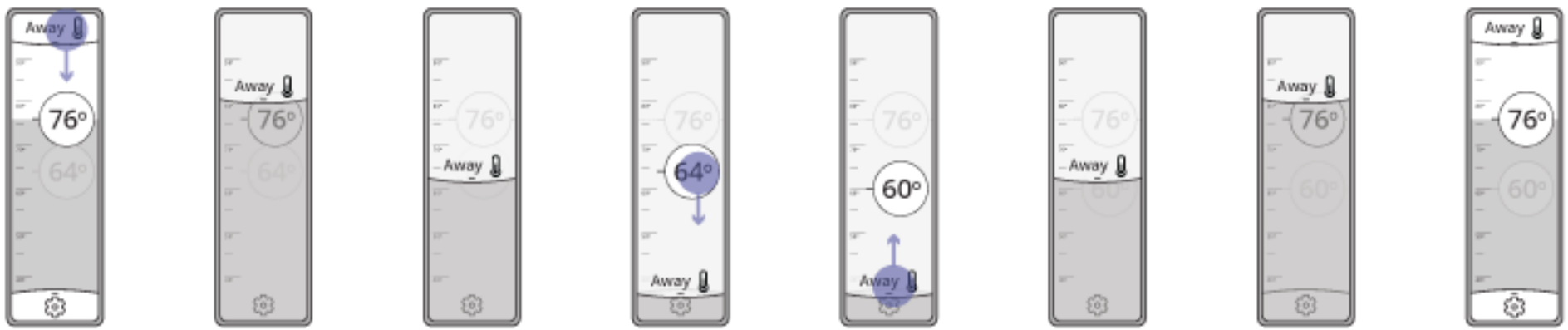
Same as with cooling...

...but in heating mode the "heat" icon appears



Thermostat V.5
Jacob Rader
2013 - Q2

② The user is about to leave for work so they check and adjust the away temperature.



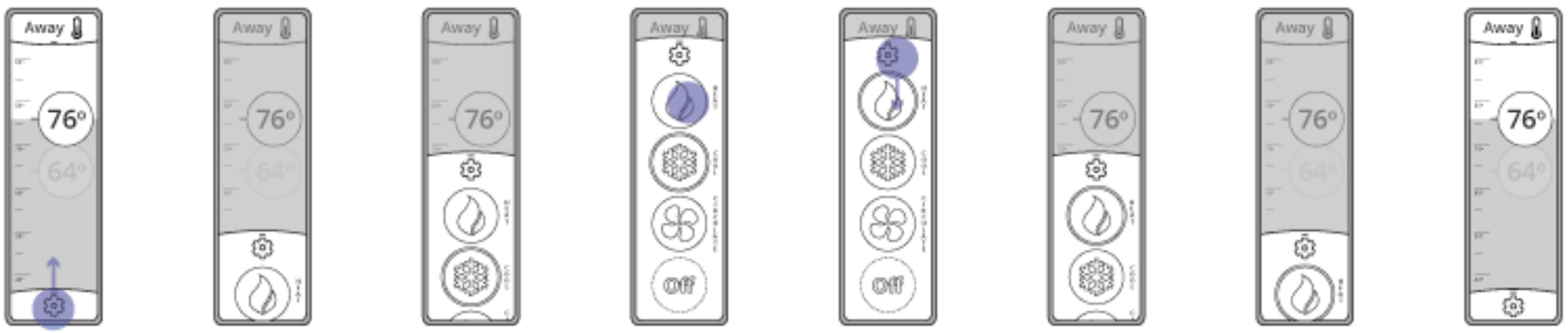
The user accesses the "Away Temperature" setting by swiping down on the "Away" tab.

Adjusts the temperature by sliding the indicator bubble.

The user closes the "Away Temperature" panel by swiping up on the "Away" tab.

Thermostat V.5
Jacob Rader
2013 - Q2

③ Its fall and the weather has been getting colder, so the user switches the system from “Cool” to “Hot”.



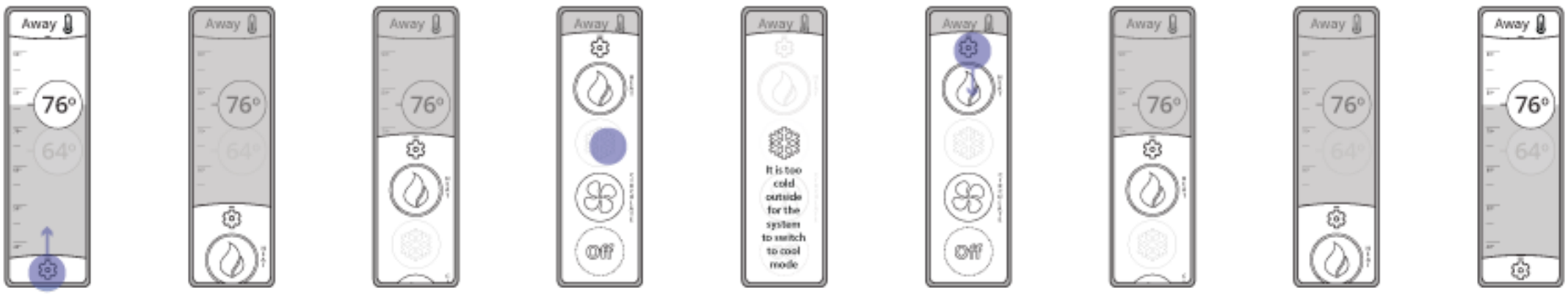
The user accesses the settings panel by swiping up on the gear tab.

Switches the system mode by tapping on the “Heat” button.

The user closes the settings panel by swiping down on the gear tab.

Thermostat V.5
Jacob Rader
2013 - Q2

4 During winter, it is excesivly warm in the house; the system doesn't let the user switch to "cool" to protect the AC unit from damage.



The user accesses the settings panel by swiping up on the gear tab.

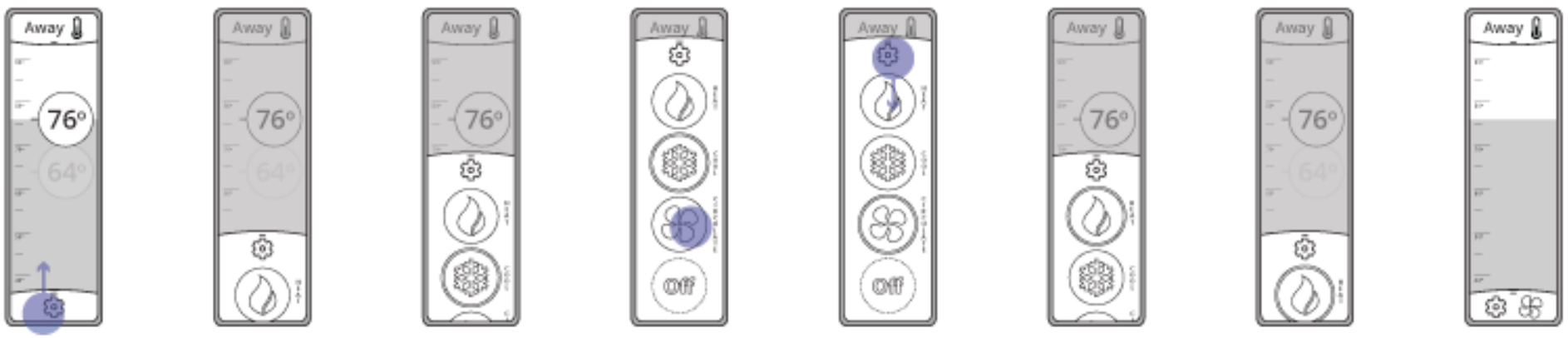
The user taps the greyed-out cool icon.

The system notifies the user that cool mode is unavailable.

The user closes the settings panel by swiping down on the gear tab.

Thermostat V.5
Jacob Rader
2013 - Q2

5 The weather has been really nice so the user sets the system to just circulate air in the house.



The user accesses the settings panel by swiping up on the gear tab.

Switches the system mode by tapping on the "Circulate" button.

The user closes the settings panel by swiping down on the gear tab.

The bubble disappears and a fan icon appears to indicate fan mode.

Thermostat V.5
Jacob Rader
2013 - Q2

6 The user has just installed the device, they need to connect it to the network (through the provided wifi dongle)

The user accesses the settings panel.

The user taps the connect icon.

The device will attempt connect to the network until a connection is made. The user can exit at any time.

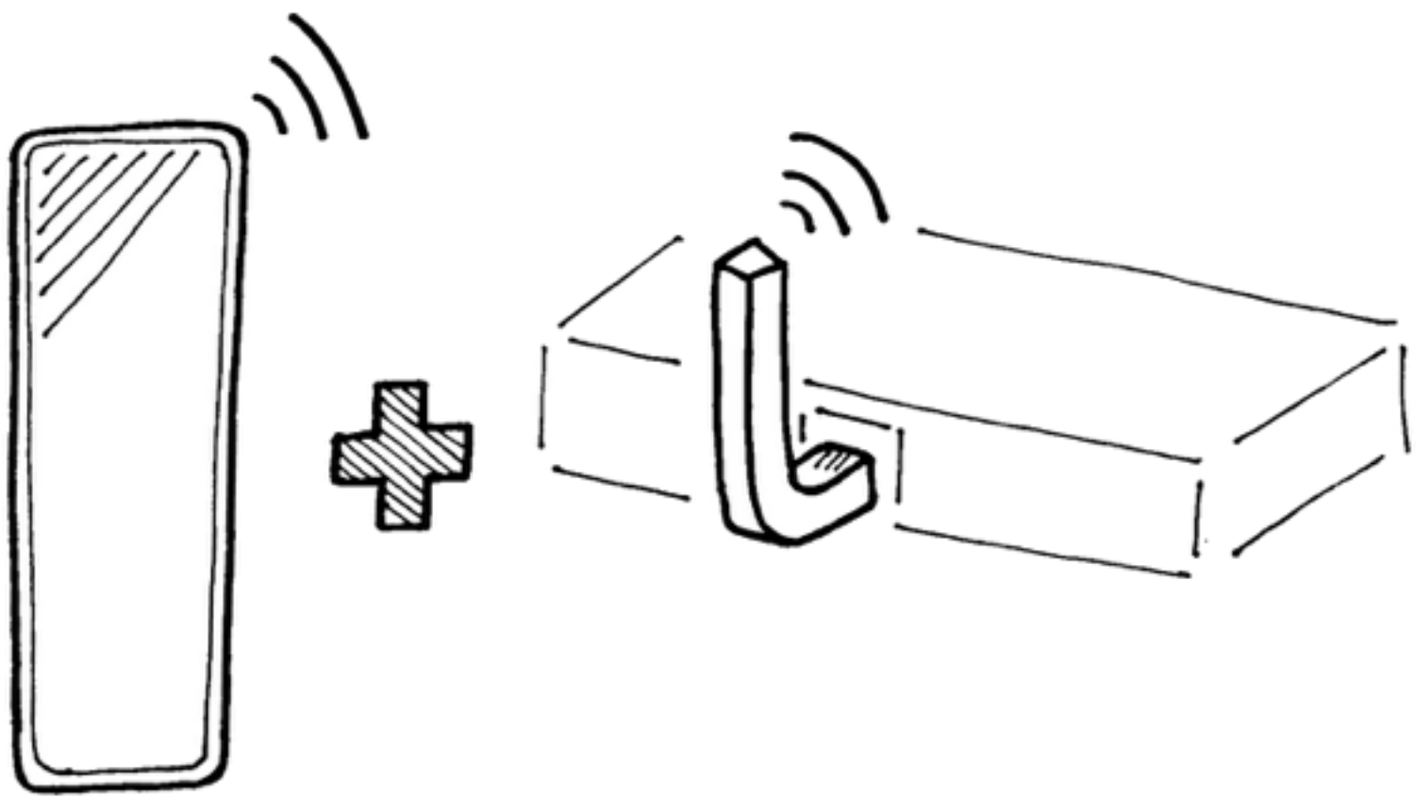
Once the device connects to the network the icon darkens. The user can exit by tapping the "Return" icon.

The user returns to stadard settings menu by swipping down.

The user closes the settings panel.

Alt: If the user just taps the wifi icon directly, the system will take the user directly to the connect to network screen.

Thermostat V.5
Jacob Rader
2013 - Q2



7 The user is about to leave on a long trip so they turn the system off.

The user accesses the settings panel by swiping up on the gear tab.

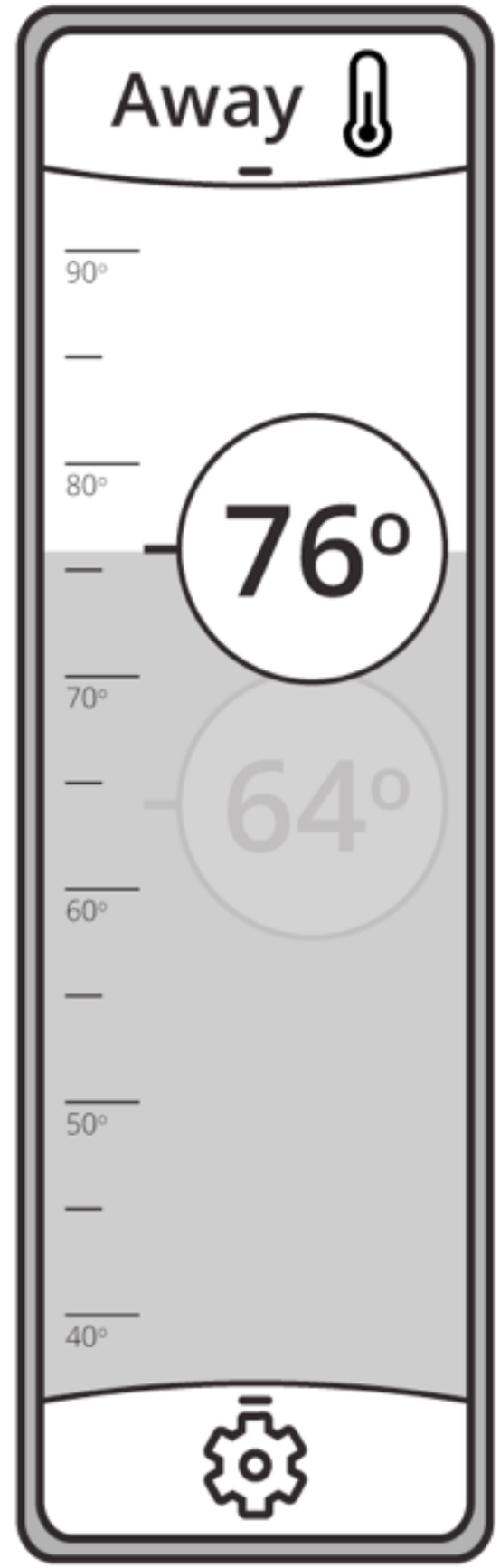
The user turns the system off by tapping the "Off" button.

The system is now off. Tapping the screen again will prompt the user to turn the system back on.

The user taps the "On" button. The system reintiates and displays the main screen.

Thermostat V.5
Jacob Rader
2013 - Q2

Jacob Rader

ac4d

Austin Center for Design