



Energy Hog

home electricity monitor

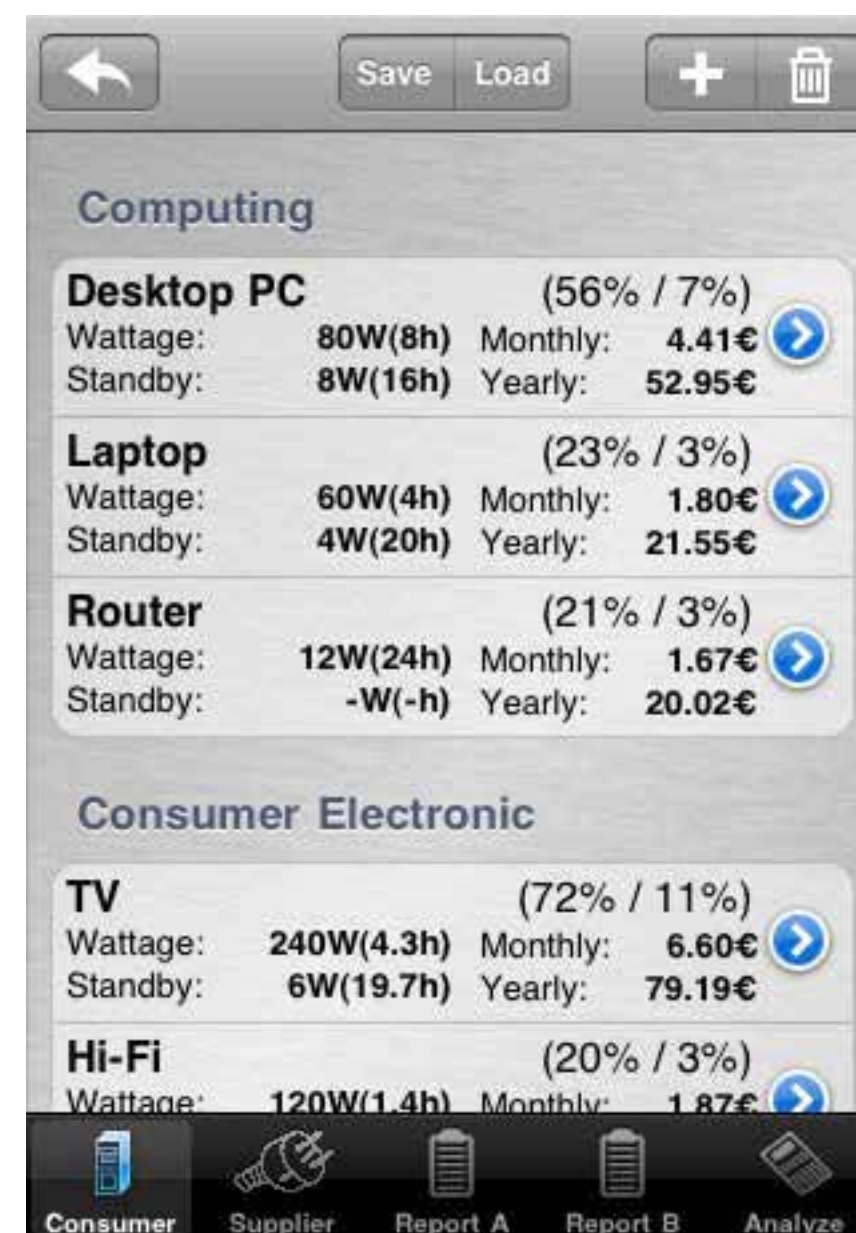
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Objective

An electricity consumption **monitor** and **advisor** for personal spaces. Tracking **specific devices** or **appliances** and providing information to **save electricity**.

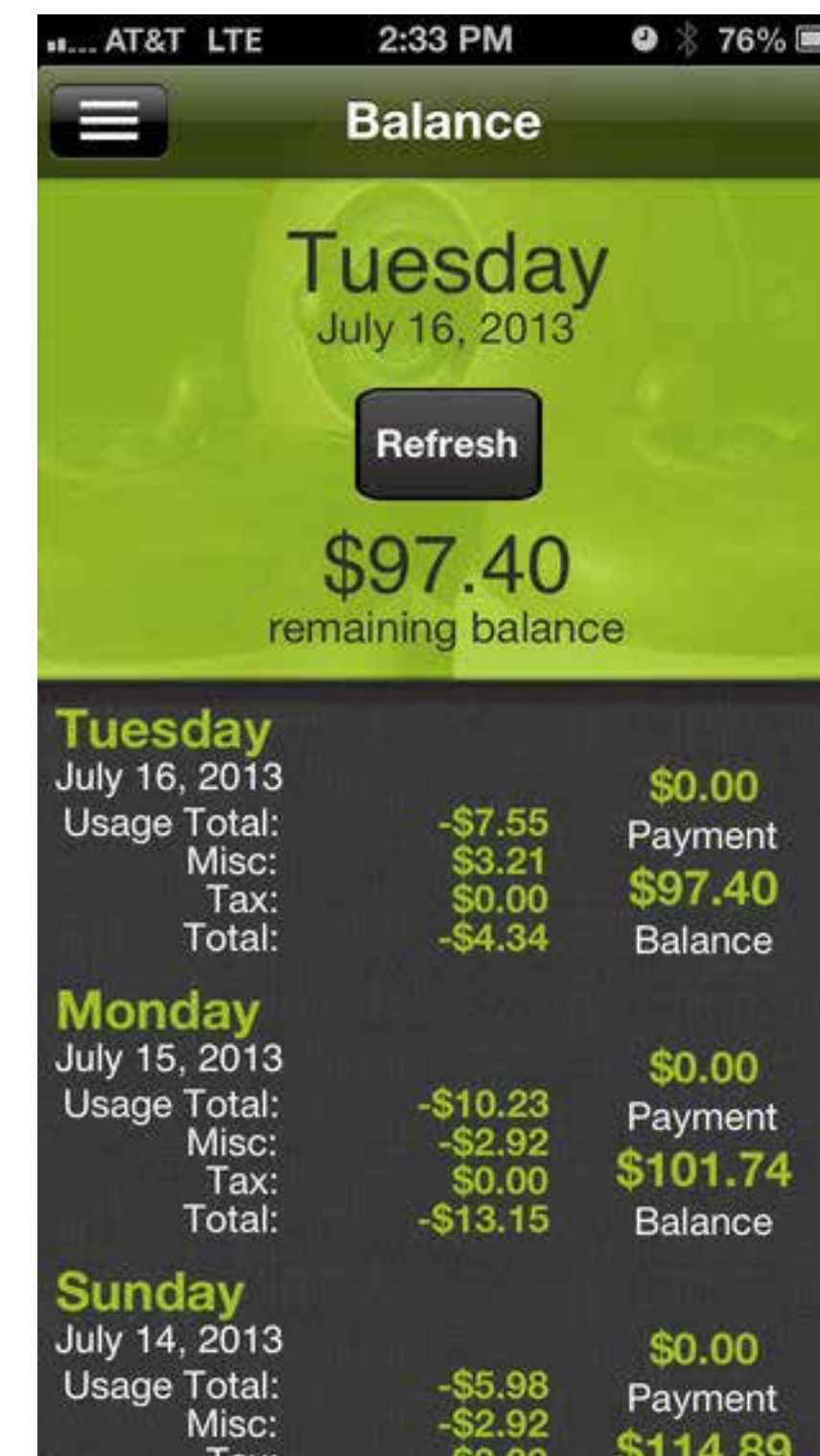
Competition



Electricity Cost Calculator
By Quintec GmbH



Energy Calc Pro
By Cyberprodigy LLC



MyUsage Mobile
By Excleron Software



Reliant
By Reliant Energy Retail Holdings, LLC



Electricity Cost Calculator for British Gas
By App Ktchn Ltd

Competition is **not precise**, either with **generalized presets with limited options...** or **too many options** that ask **too much input** from the **everyday user**. These solutions only observe and **don't give feedback to improve**.

Audience

Age **20-40's** People who have enough experience with technology to **take action** with information gathered. People who have **moderate control** over their living space. **Middle class** individuals or couples.

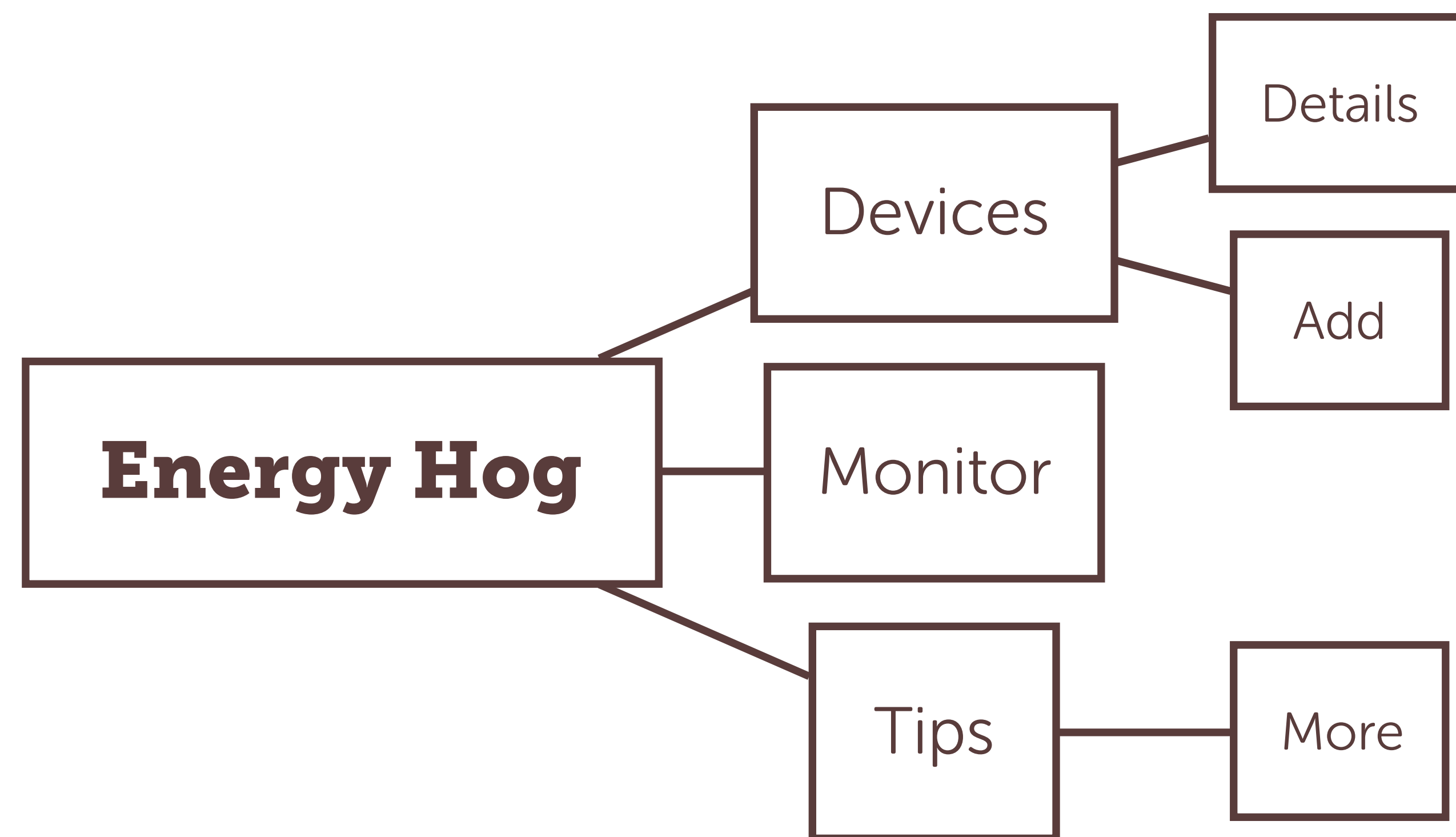
User Persona | Andrew



Andrew is a 26 year old nutrition & fitness trainer in Houston, Texas. He lives with a roommate in an apartment. Andrew grew up as technology was on the rise and he is comfortable with his smartphone and wrist fitness tracker. His home has an assortment of appliances and electronics.



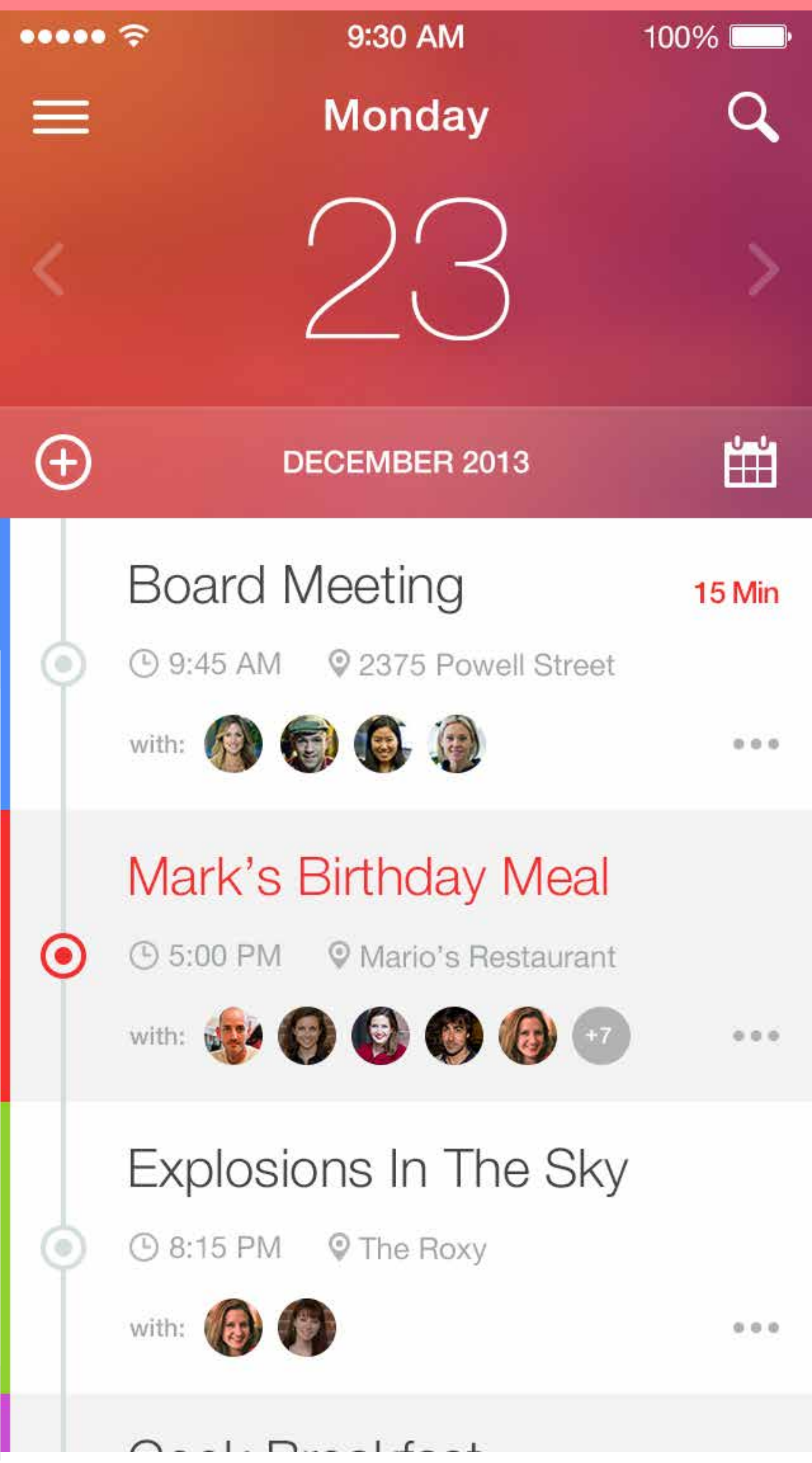
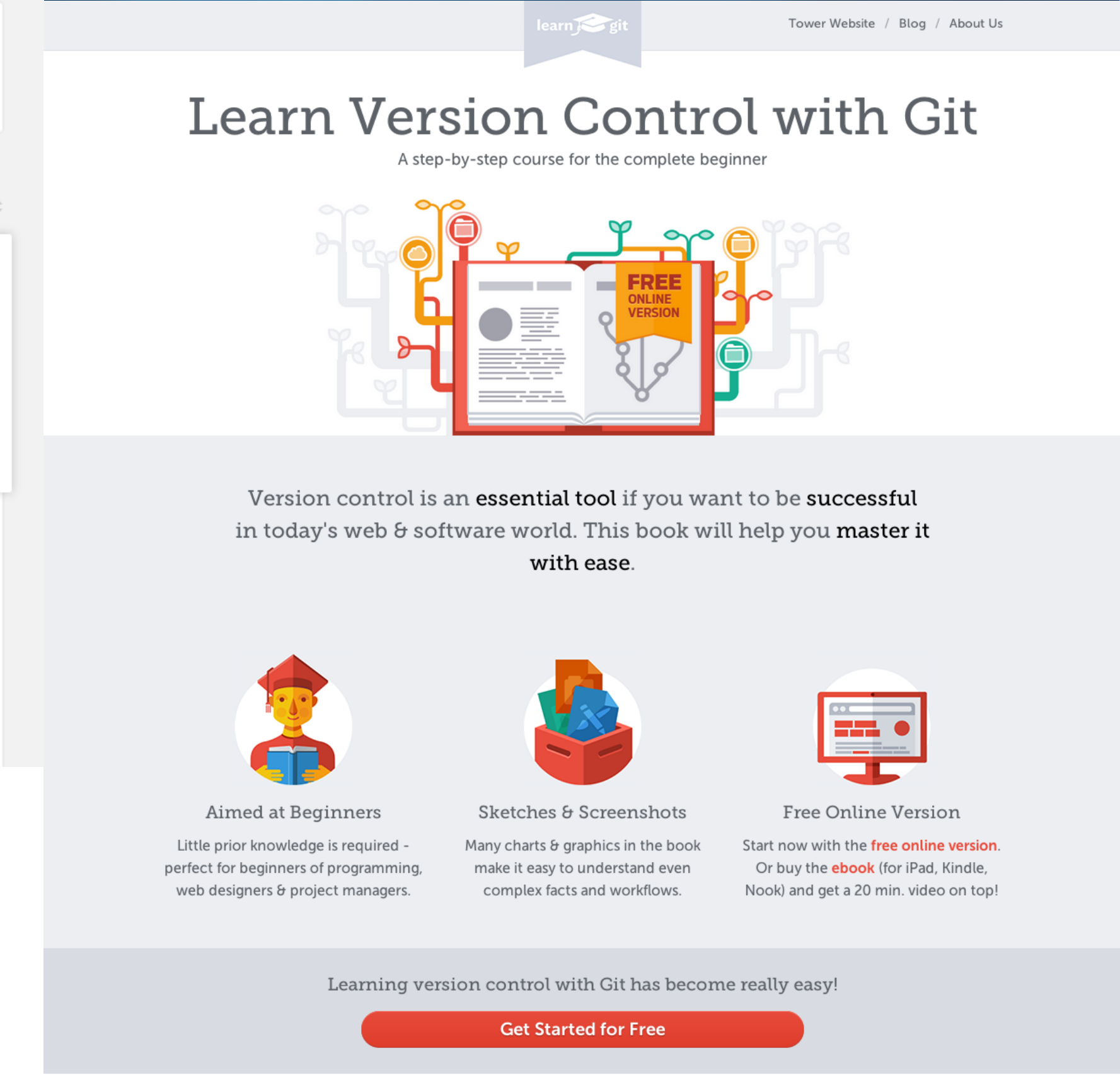
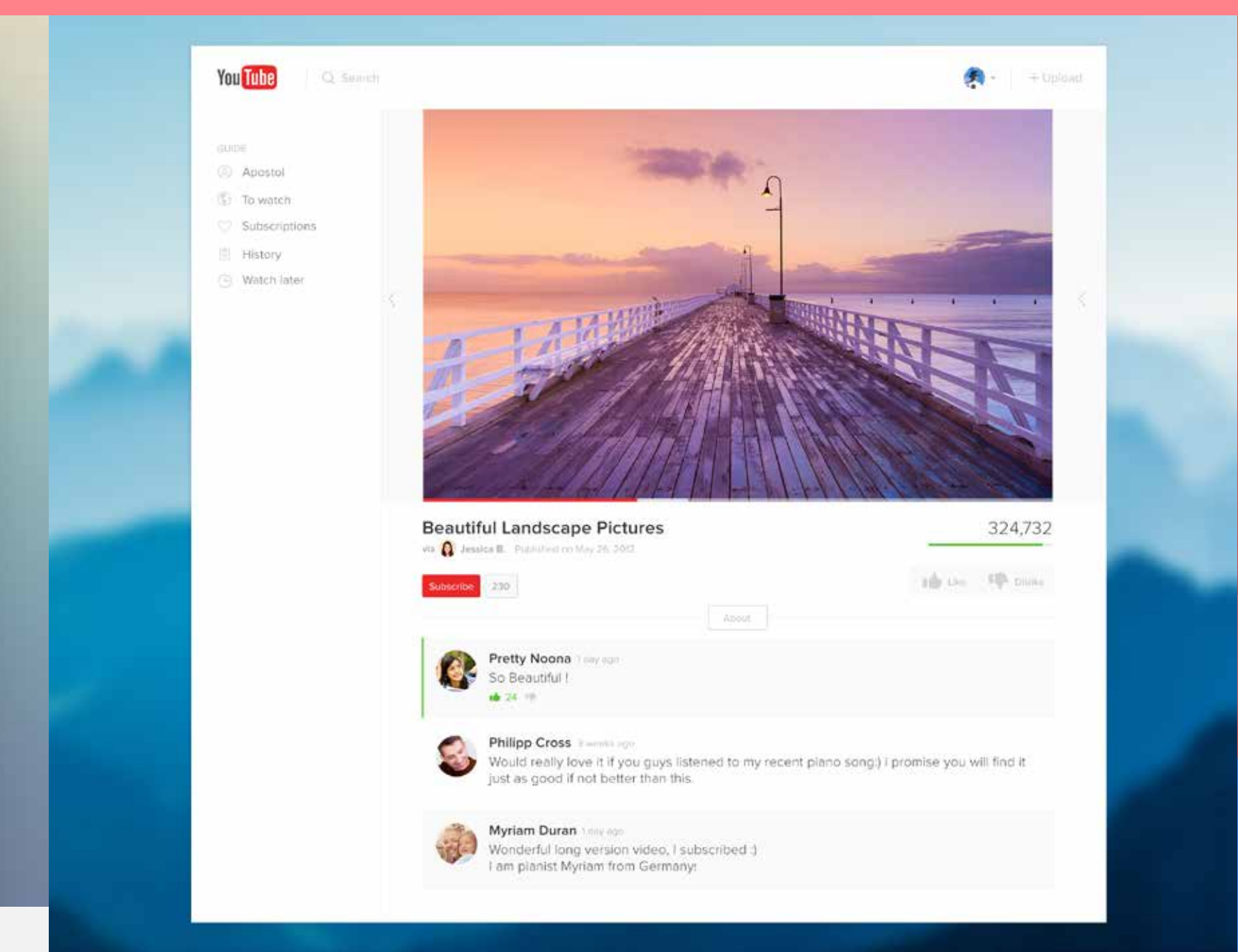
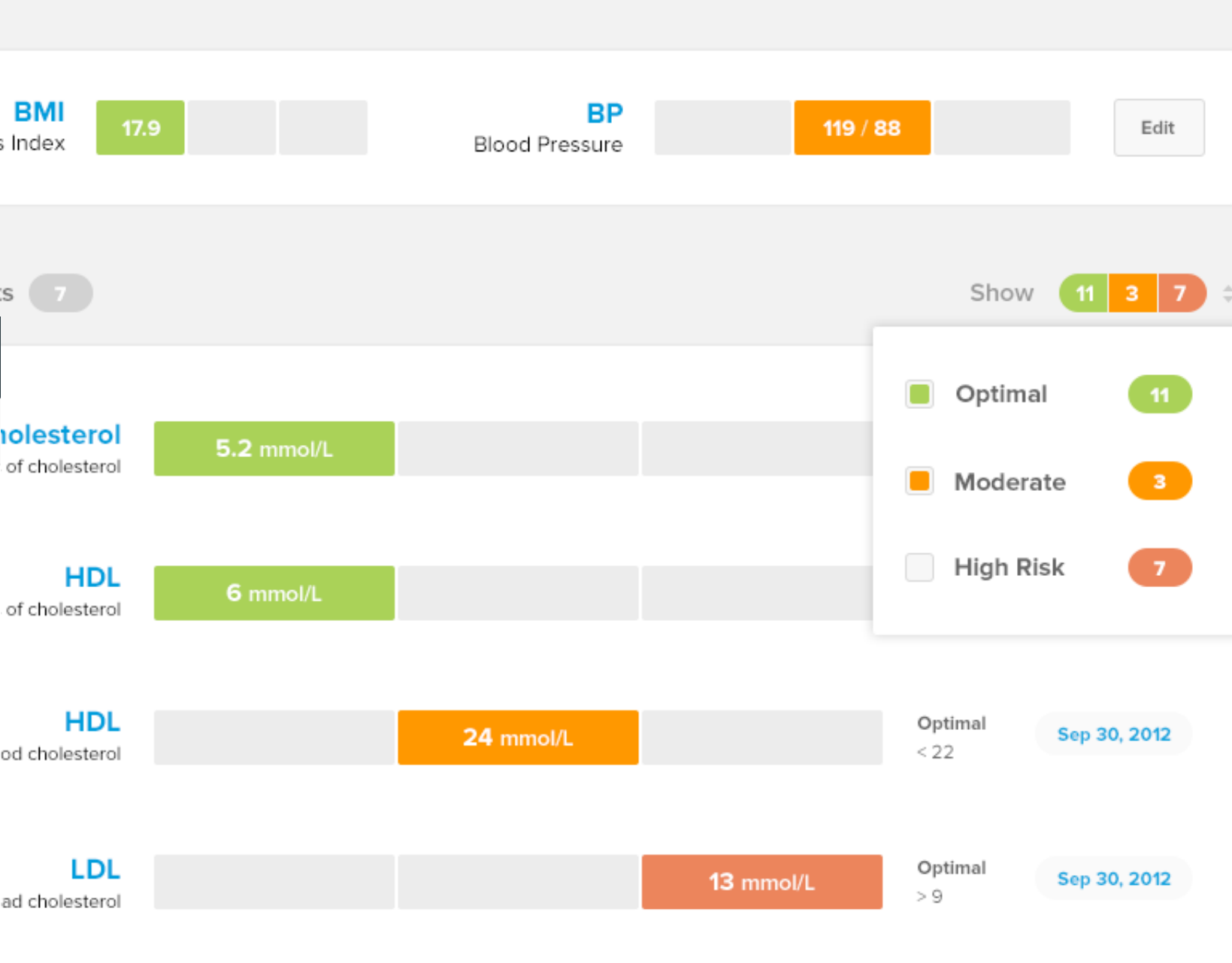
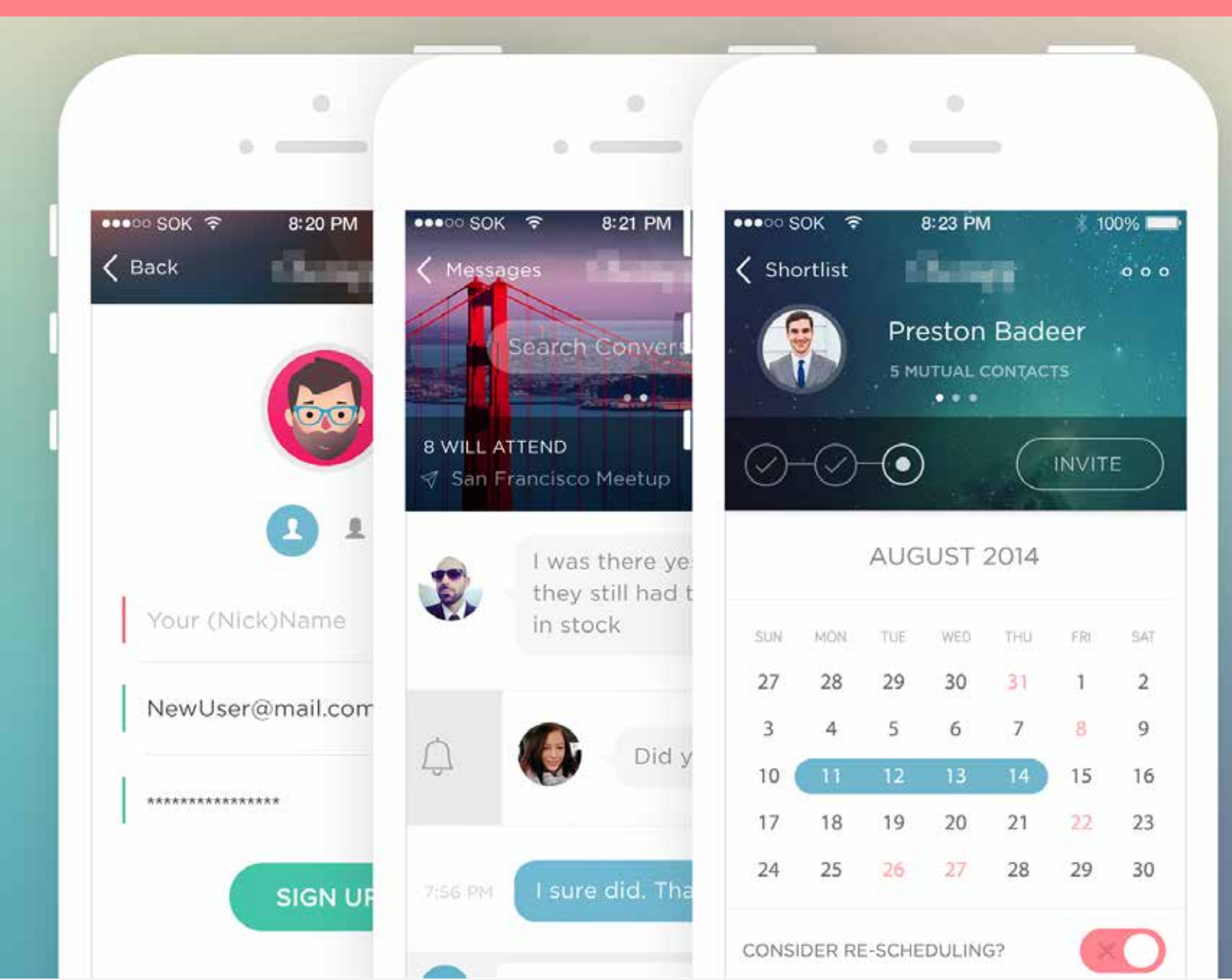
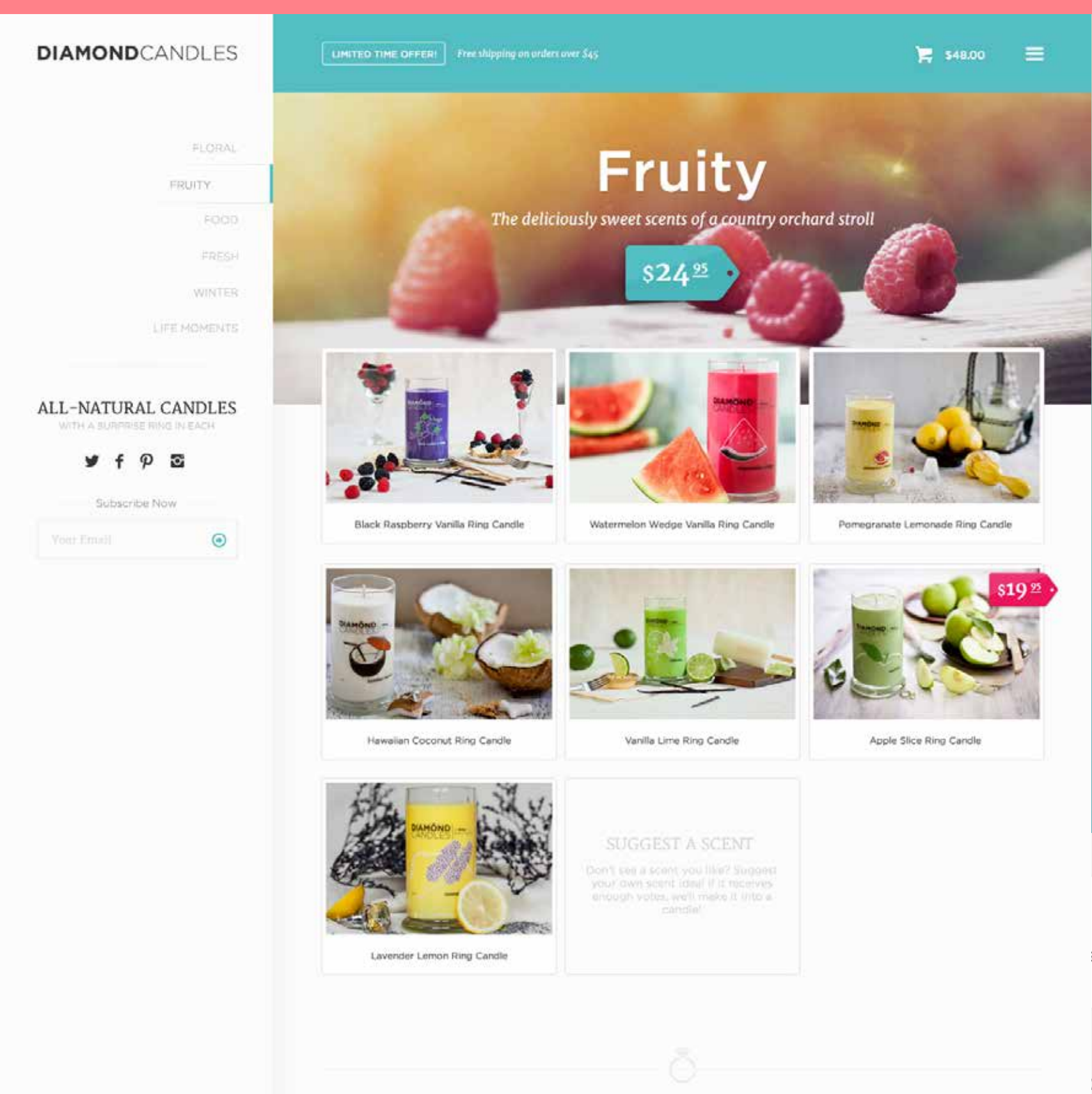
User Flow | First Iteration



A very simple **flat hierarchy** built around the three **main features** of the application. **Monitoring, device management, and Energy-saving tips.**

As the project progressed the user flow evolved.

Energy Hog | Moodboard



3 Reasons to Learn Version Control with Git

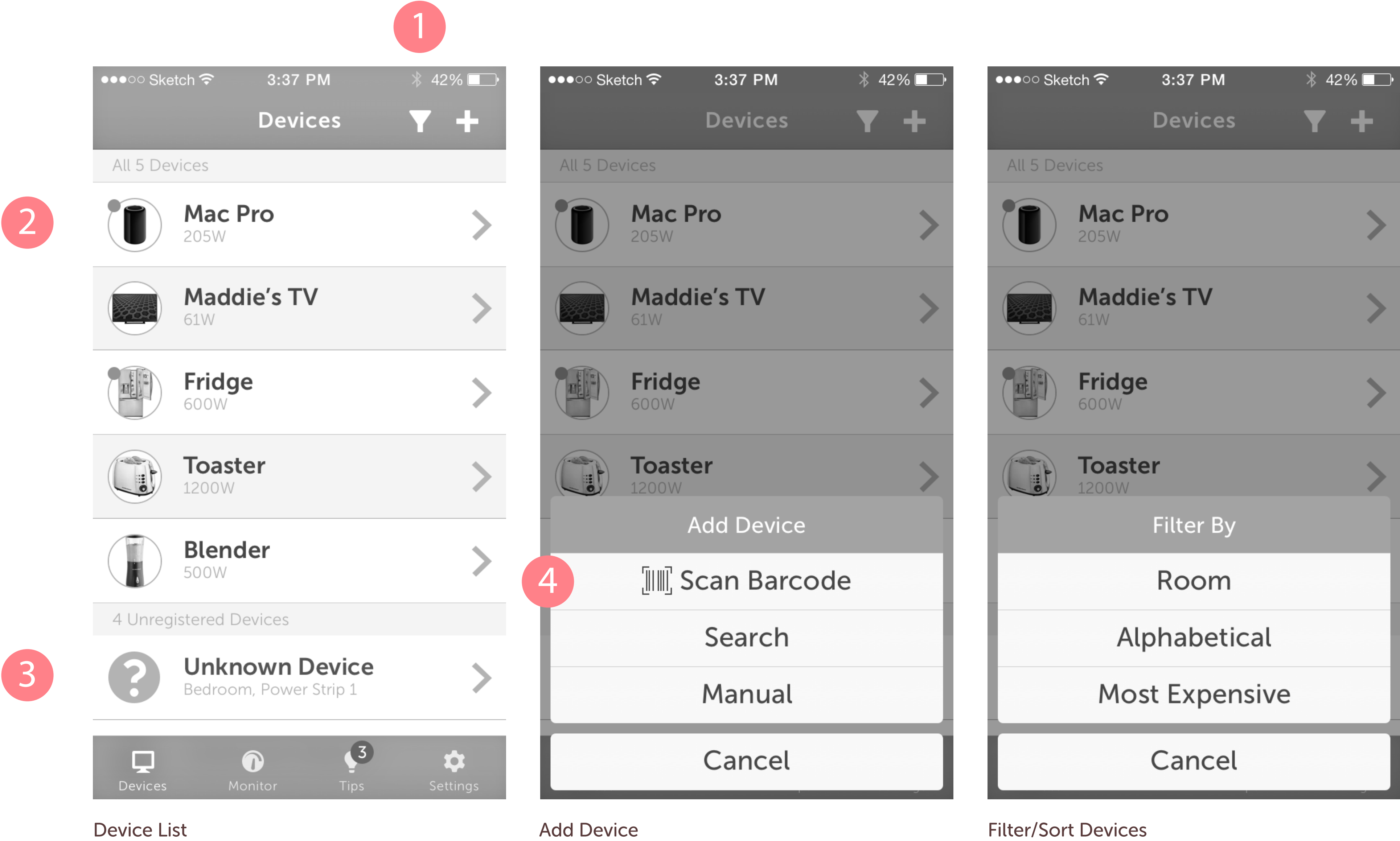


Use what Ruby on Rails, jQuery and the Linux Kernel Use

Devices Screen

Annotations

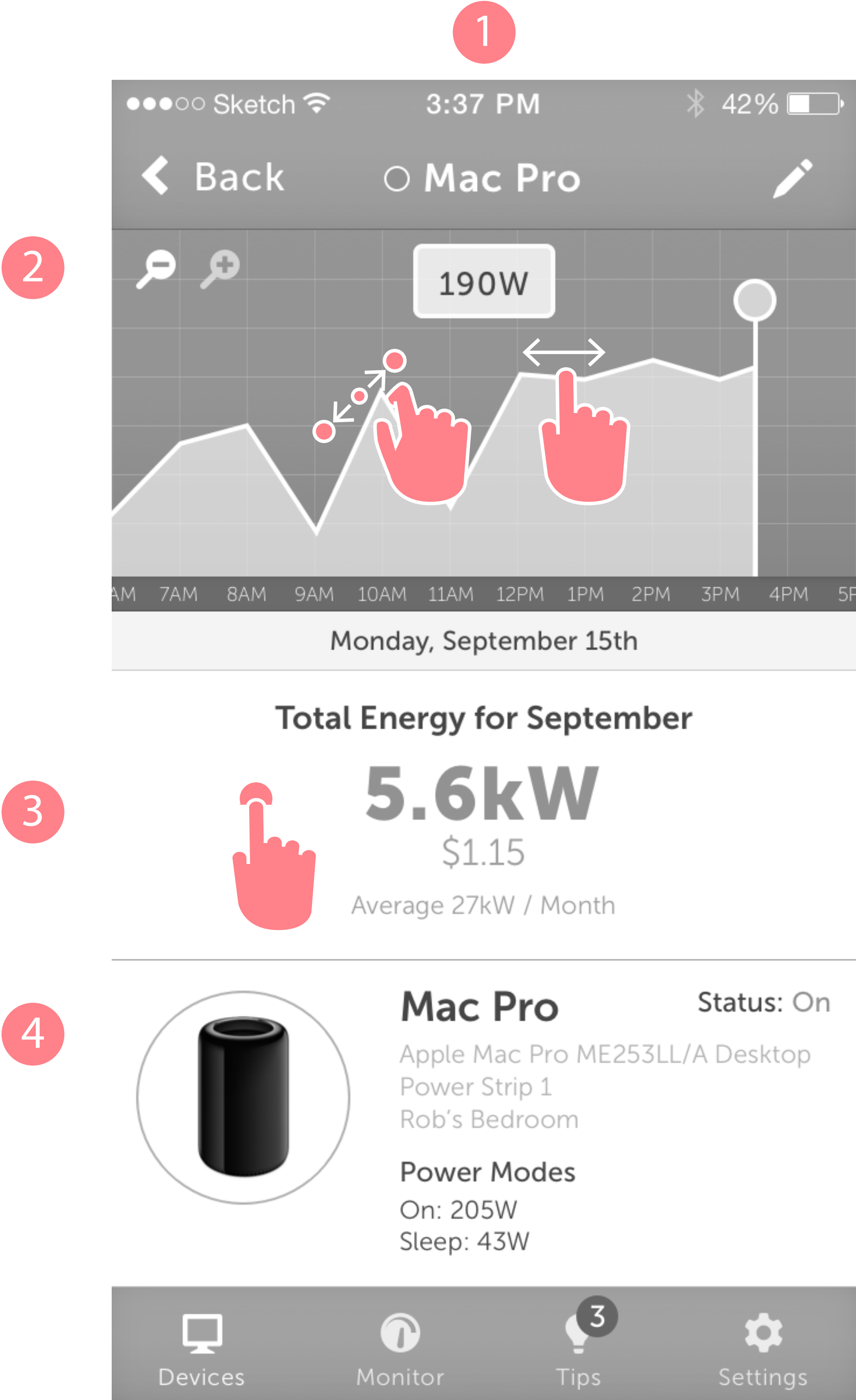
- 1 Toolbar with a filter and add tool.
- 2 Device list item. Shows average wattage number. Colored dot shows current power status (i.e. On, Off, Standby)
- 3 Unknown devices are new devices that have not been registered by the user. It will measure power consumption but won't be able to give device-specific features.
- 4 Quickly and automatically fill information by scanning (aka taking a picture of) the barcode of the device's package. Grabs all the information for an easy start.



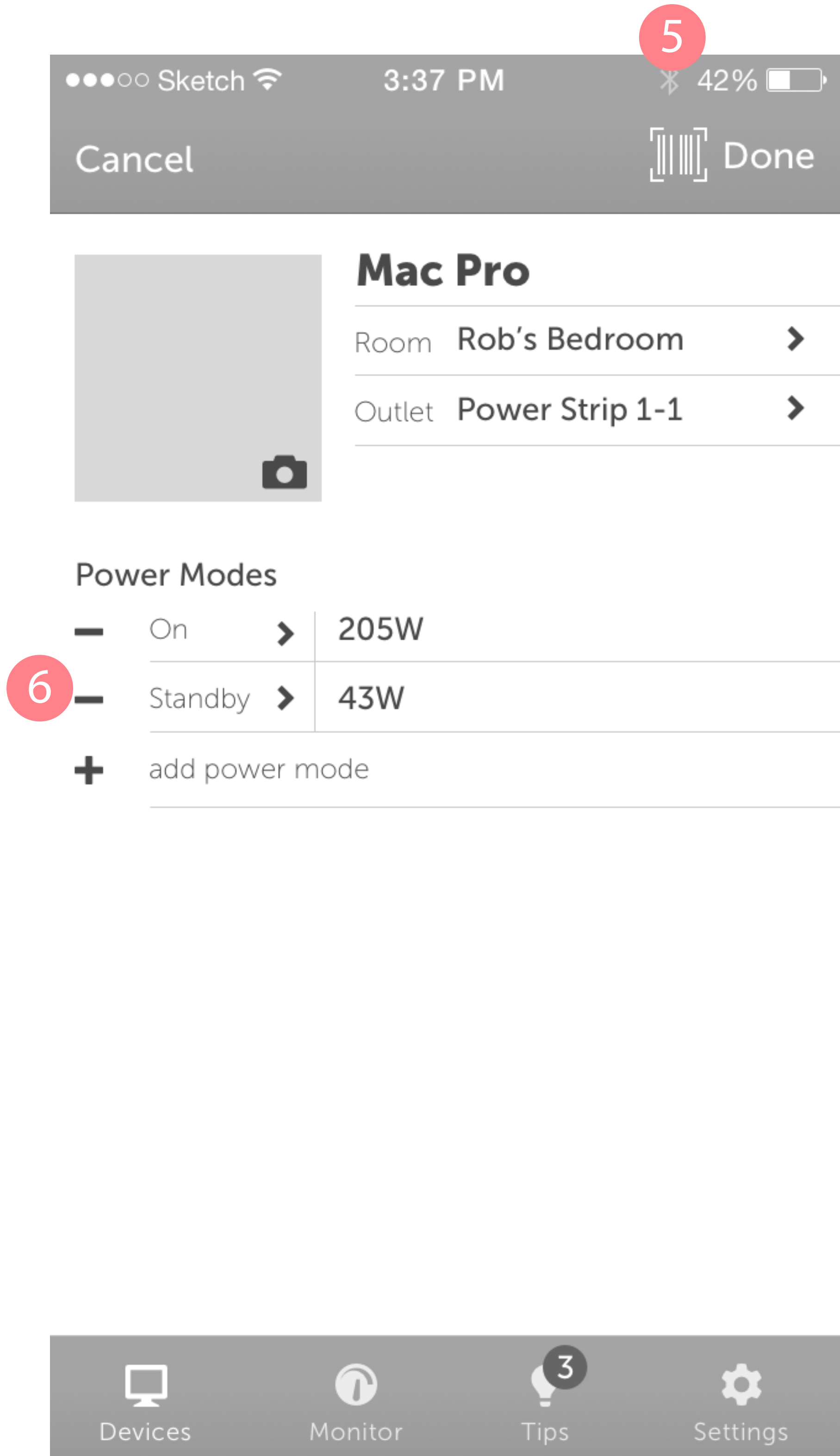
Device Detail Screen

Annotations

- 1 Colored circle to show power status
- 2 Pinch and swipe to change the view of electricity used. Views offered are Day, Month and Year. (Shown in more detail on Monitor wireframes.)
- 3 Total electricity and cost of selected time frame. Tap for auto-conversion of units.
- 4 Displays information entered about the device.
- 5 Allows you to fill information with a barcode that looks through a database online.
- 6 Editing information for your device is just like editing a contact card in iOS.



Device Detail Screen: Day View



Device Detail Screen: Edit View

Monitor Screen

Annotations

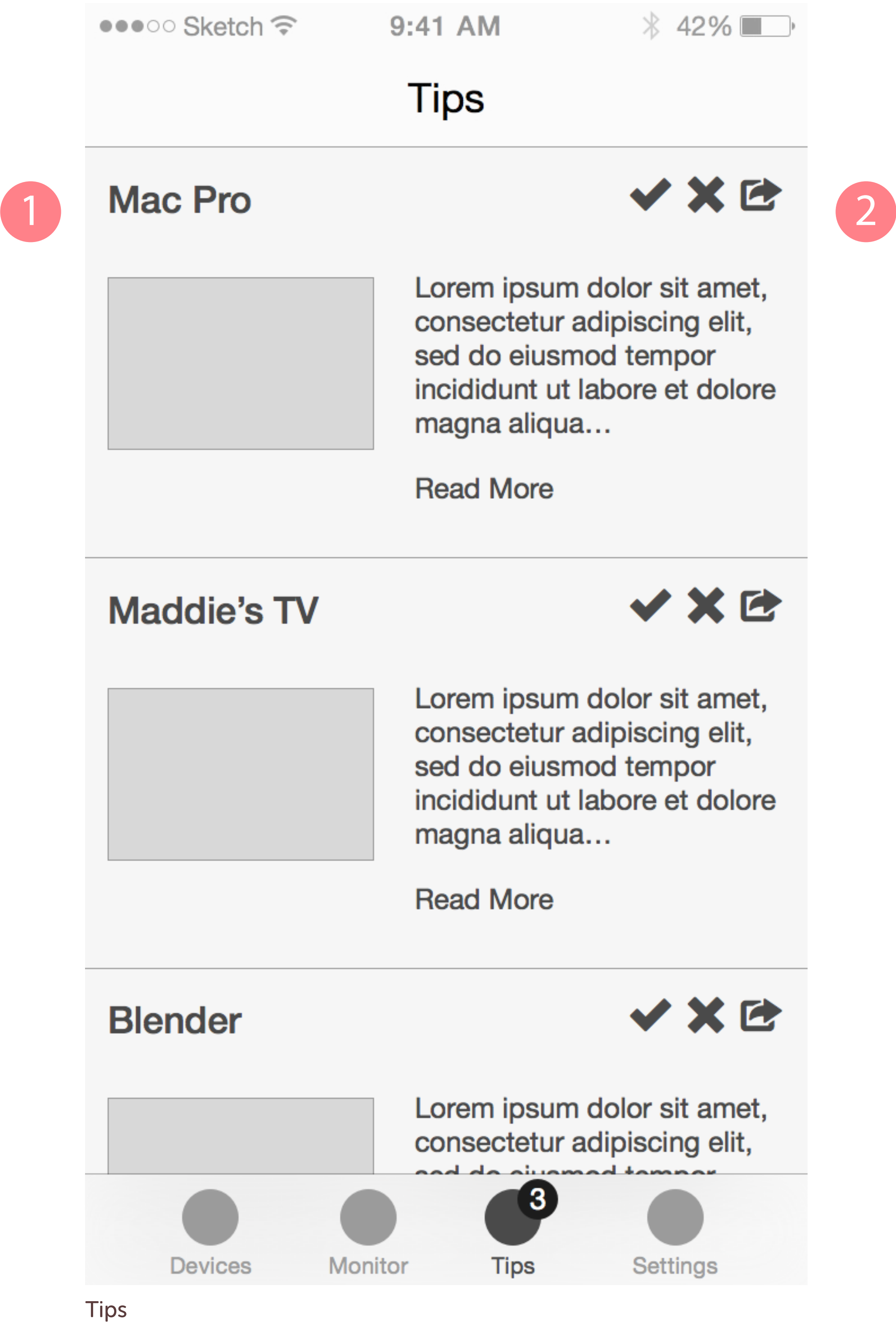
- 1 Pinch and swipe to change the view of electricity used. Views offered are Day, Month and Year. (Shown in more detail on Monitor wireframes.)
- 2 Total electricity and cost of selected time frame. Tap for auto-conversion of units.
- 3 Top 3 most expensive devices over the selected time frame.



Tips Screen

Annotations

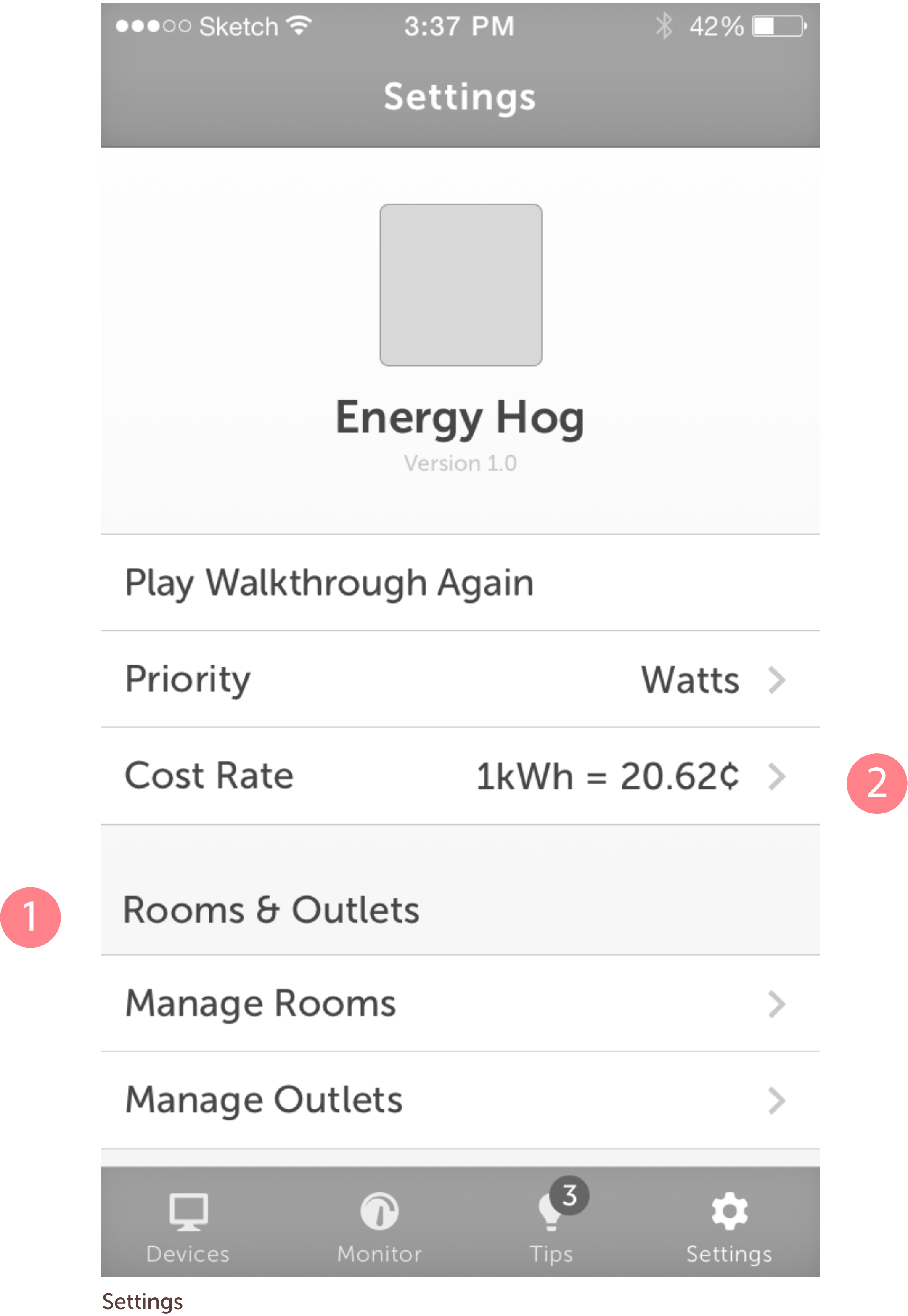
- 1 Tips are shown for devices you own and for reductions that could create the most impact on your bill.
- 2 You can mark as completed, dismiss or share any tip



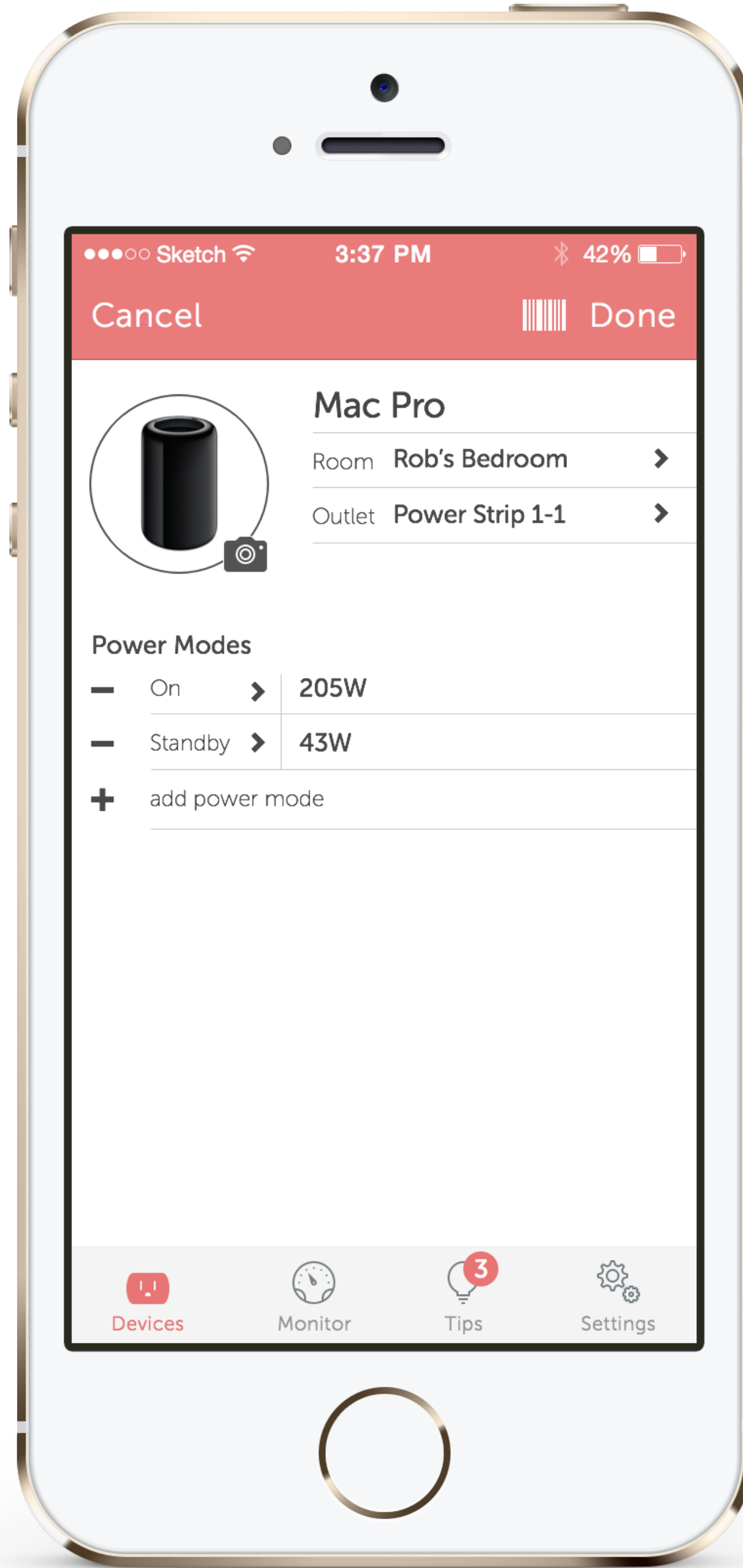
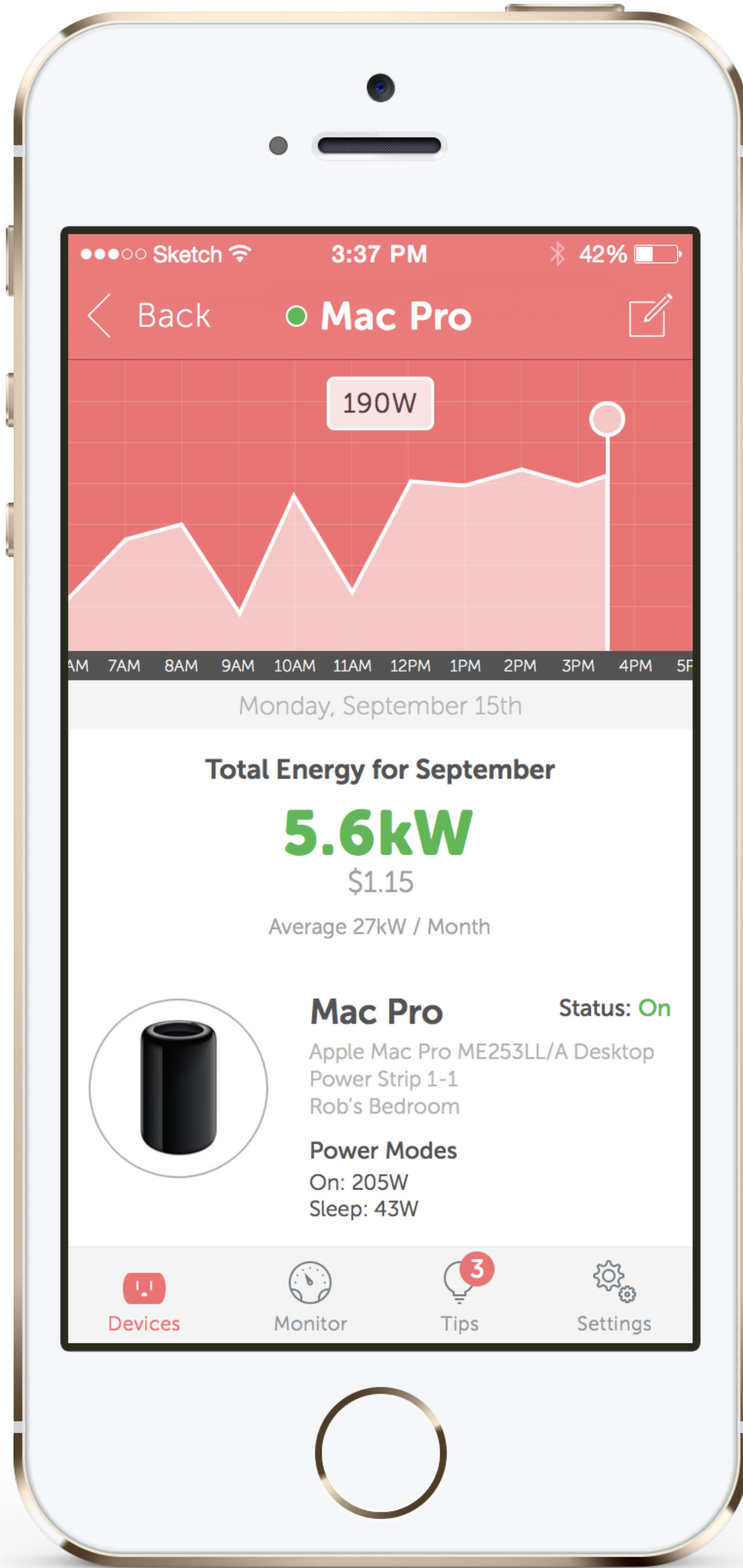
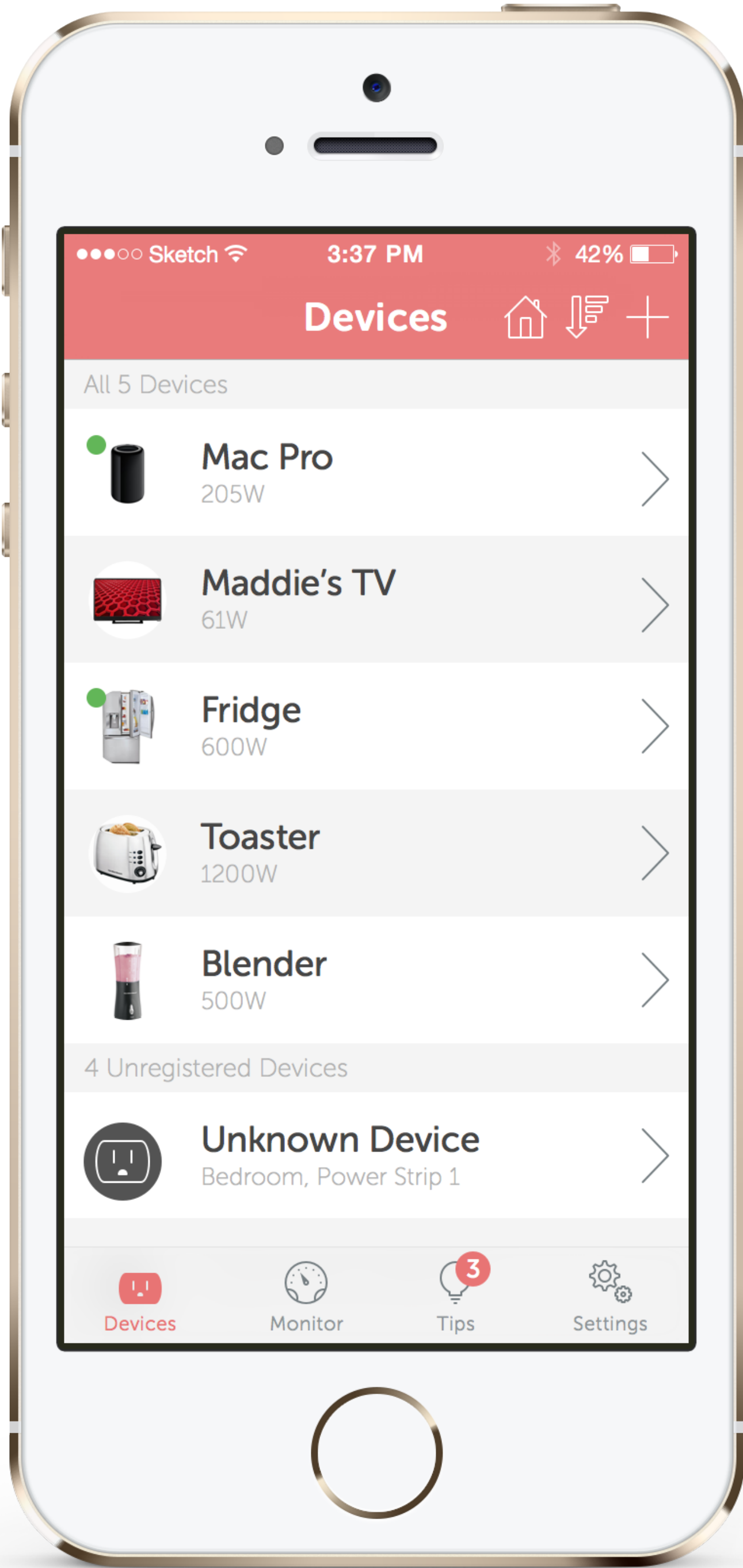
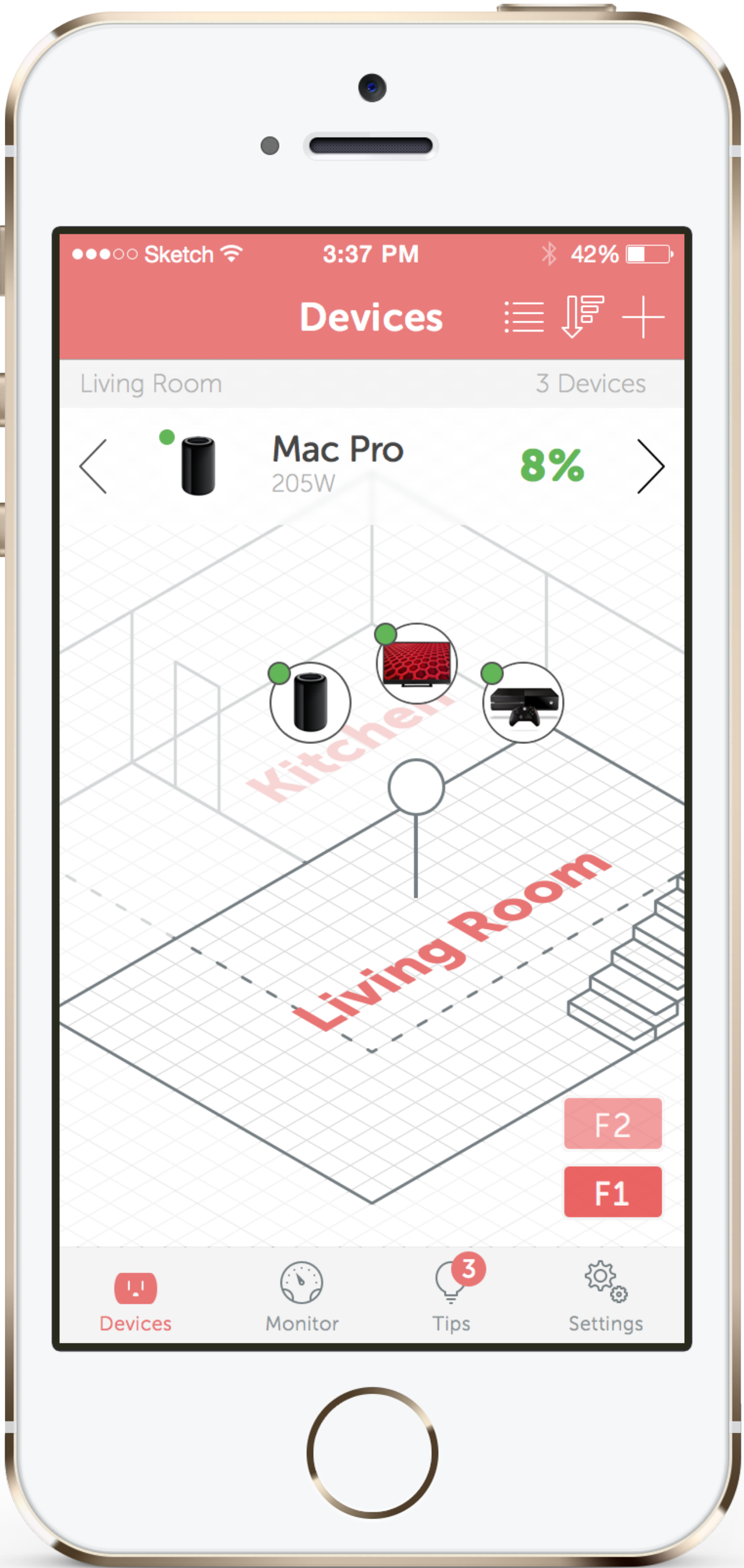
Settings Screen

Annotations

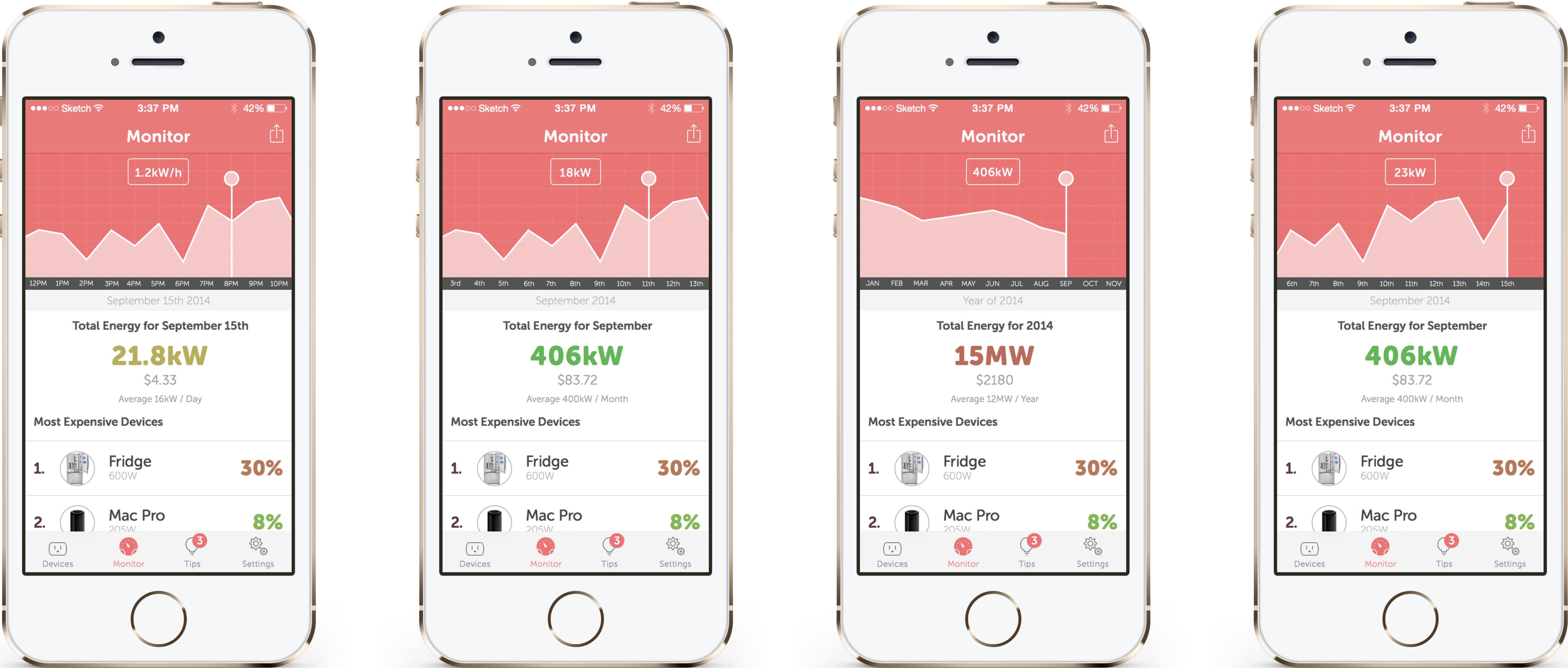
- 1 Create, Delete and organize tags to help you better organize your devices.
- 2 Leads to a number pad



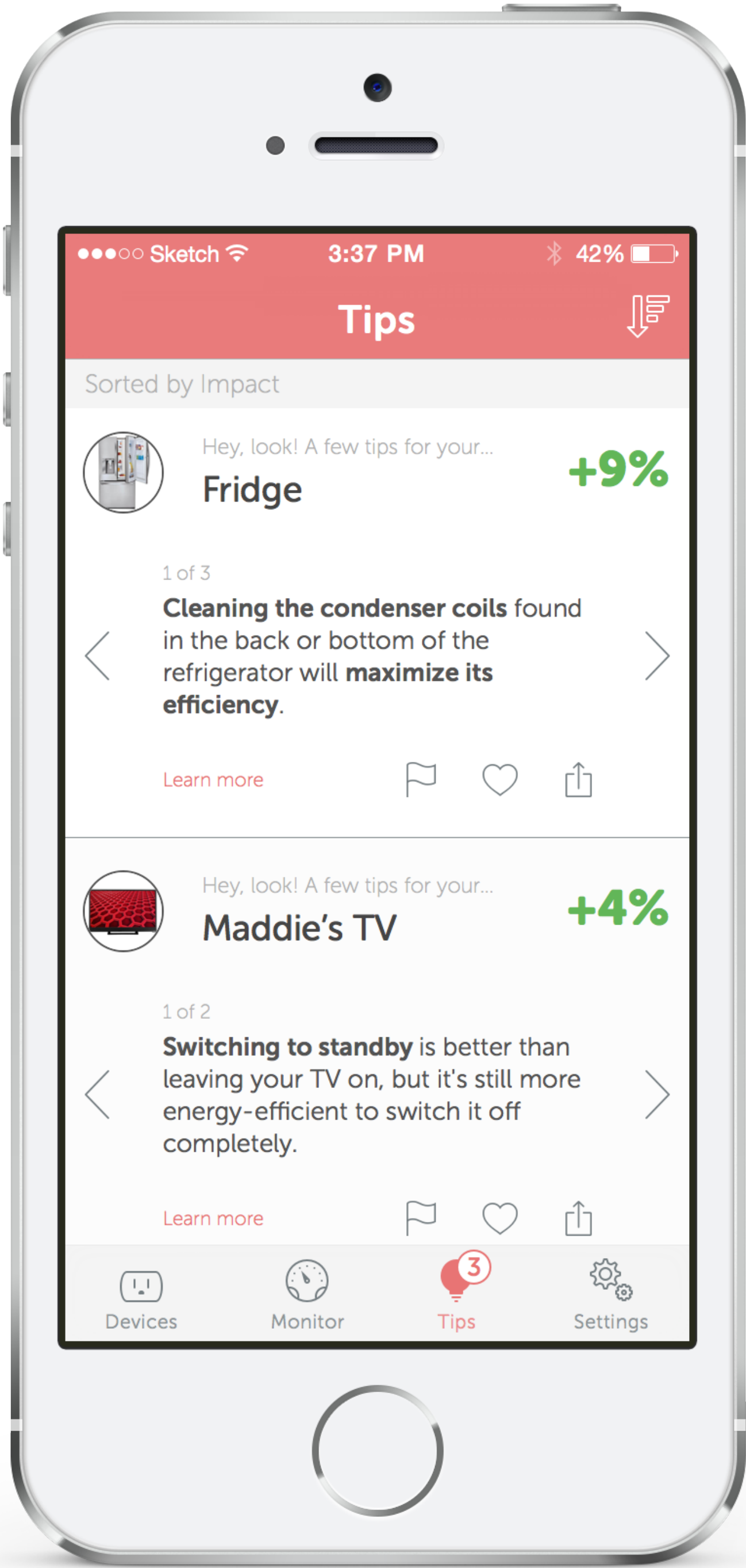
Device Management



Monitor & Records



Tips



Energy Hog | Animation Storyboard

Energy Hog Version: 1.0

1.1

4s



Description

App launches and shows first screen. User selects home view.

1.2

6s



Description

Because this is a switch in view there is no transition aside from a fade to white. User pans around the Isometric view of the home and selects their mac pro from the devices available.

1.3

7s



Description

User swipes through graph history and pinches to see larger scale of historical data.

2.1

5s

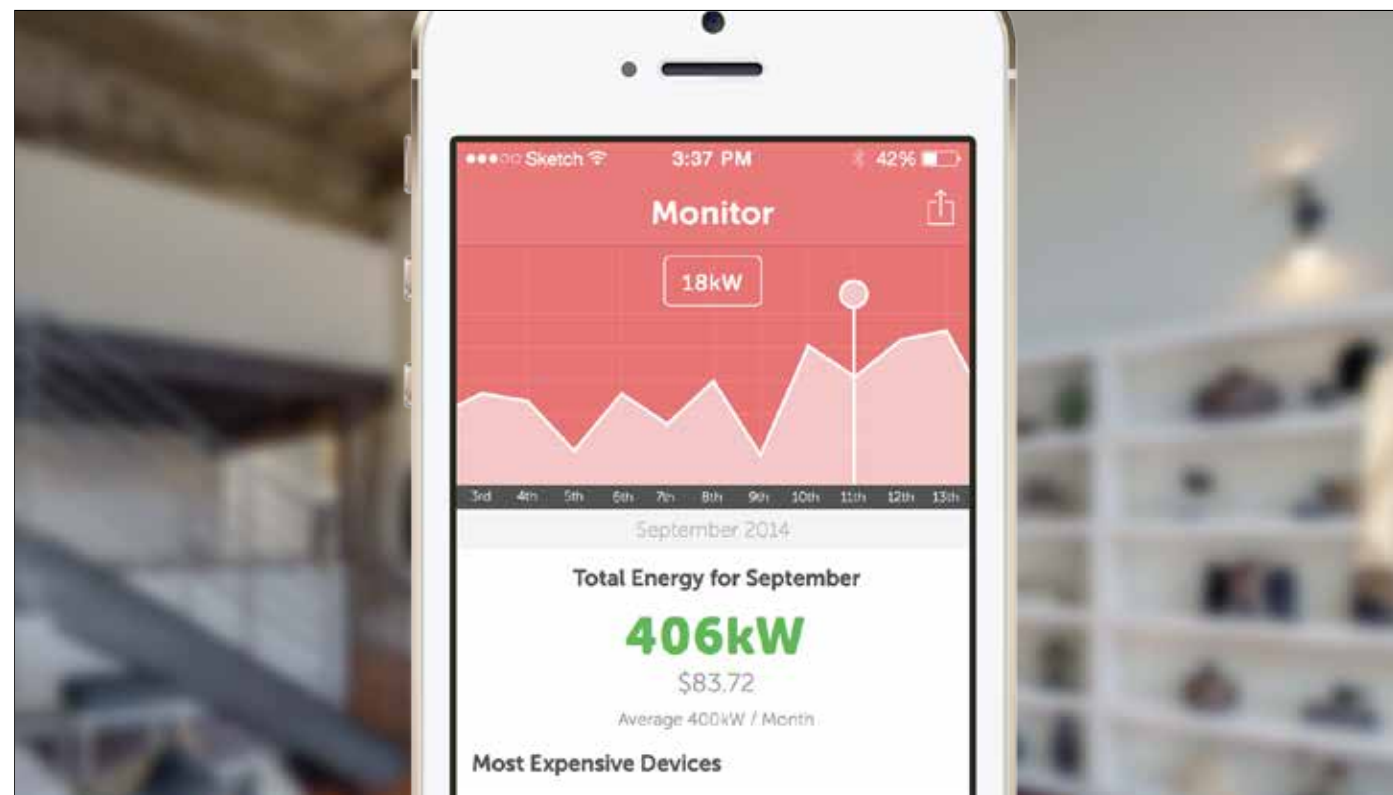


Description

User goes to the Monitor and does basically the same things to display the higher scopes. Lets the user know they can essentially do the same things to learn more about their home rather than just their devices.

2.2

5s

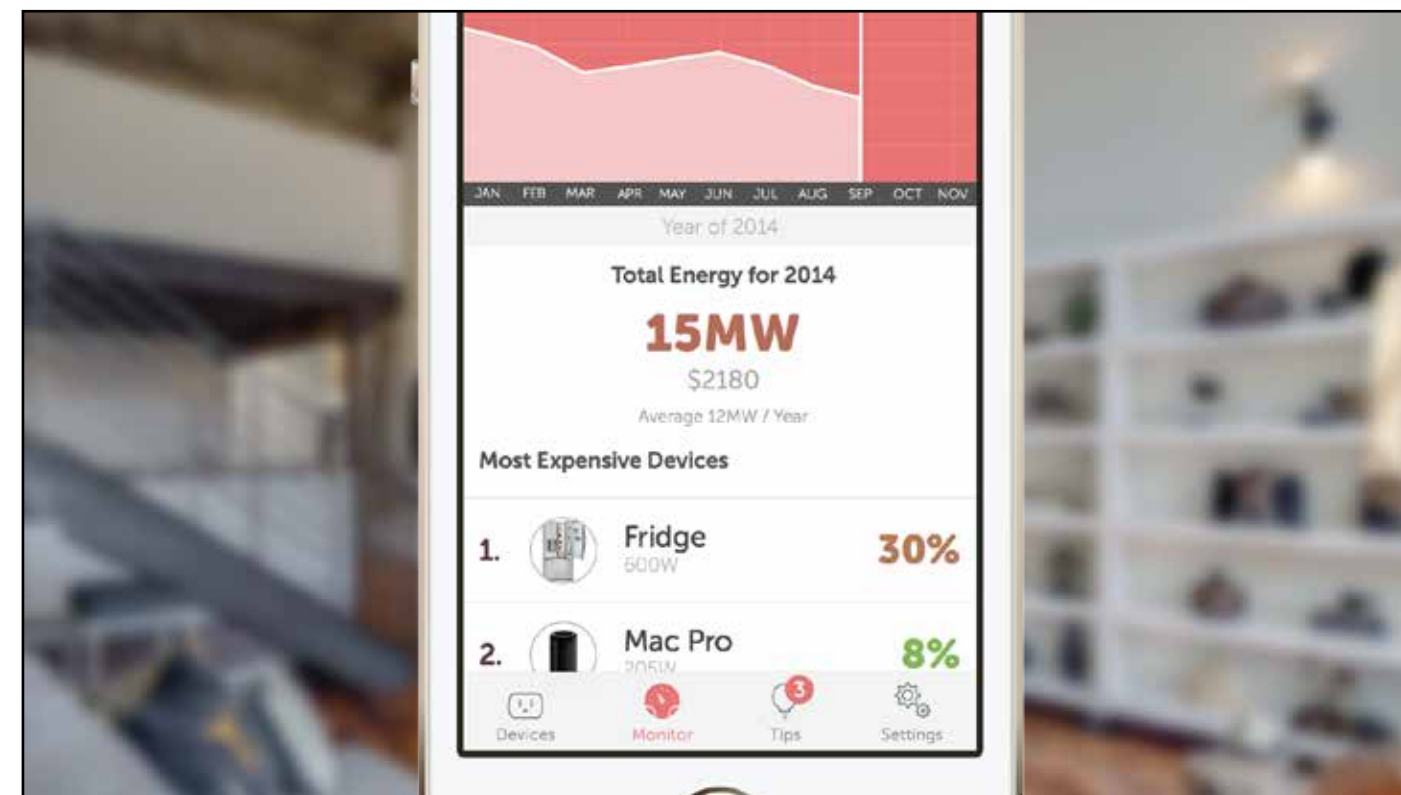


Description

Zooms to better view to show the interactive graph functionalities and how they change the other information on the screen.

2.3

3s

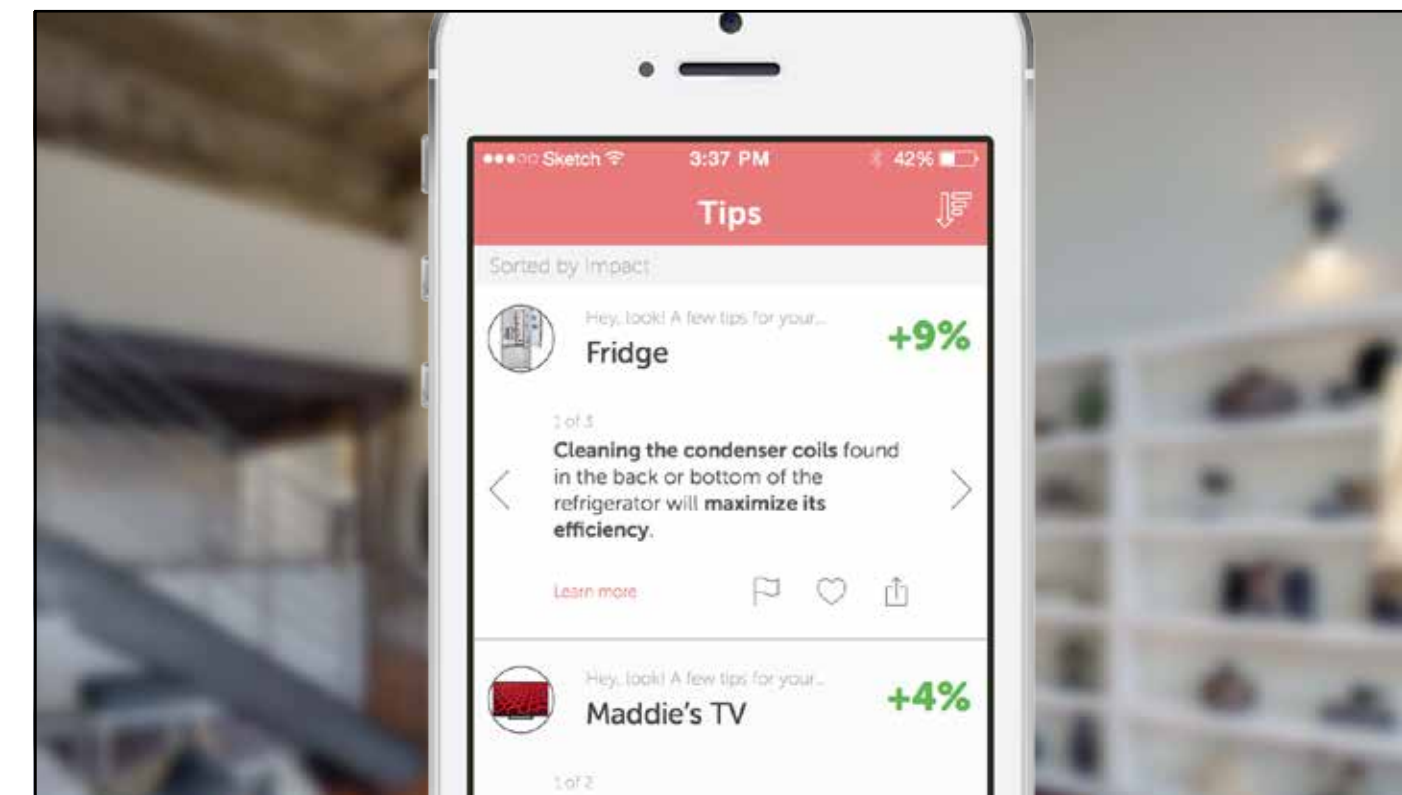


Description

User is discovering an unhealthy rating and is taking note of how expensive it is to run the fridge all year. User goes to the Tips screen.

3.1

5s



Description

User Reads and swipes over a few tips for the fridge and likes one of them.