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# Keeping your dog safe while you're away

Problem When dog owners are away, their dogs often need to be left at home. Dog owners worry about their dog's health, emotional state, and daily needs.

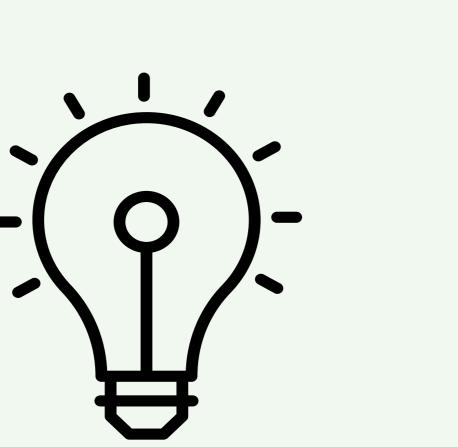
Solution Astro is a robot companion for dogs and dog owners that allows dog owners to feed, let out, and play with their dogs remotely.

## **Our Design Process**

### User Research



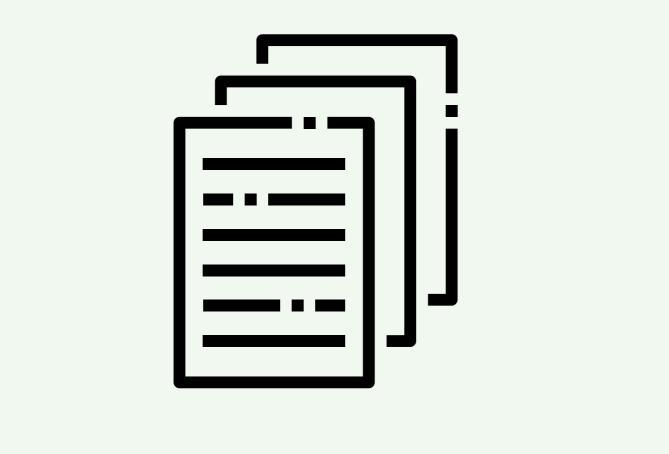
We found dog owners more interaction with dogs when away at work or traveling through interviews



Ideation

### We sketched robot, smart collar, and smart crate as different solutions.

### Prototyping



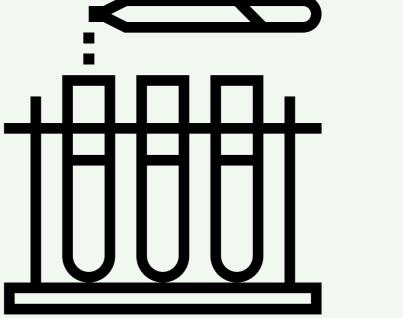
We narrowed our focus to the robot solution and created our paper prototype for the mobile app.

### We received feedback from the evaluations led to several fixes such as improving language consistency and design consistency between screens.

Heuristic Evaluations

### We conducted usability tests with dog owners, tasks using our paper prototype.

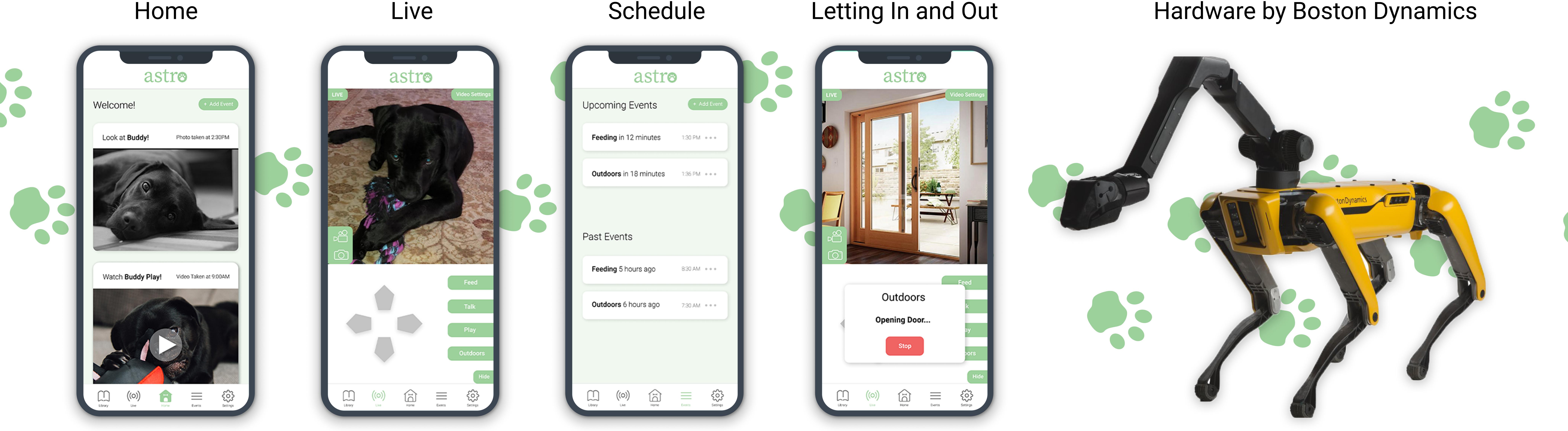
### **Usability Testing** Iteration



asking them to perform

We made extensive revisions to improve our product

### Product



				Outdoors	
				Hide	
$\bigcap$	((0))		$\equiv$	503	
Library	Live	Home	Evenos	Settings	

### Feeding

Astro makes feeding your pet while you're away a simple process with its built-in food compartment.

### Monitoring

Astro allows dog owners to check up on their dogs at anytime with the option to record motion.

### Media Library

Astro takes videos and pictures of your pets, to be viewed at your leasure in the media library.

### Maintaining Health

Astro helps dogs with

can play tug of war and

fetch, using its sensors

boredom at home! It

to safely play inside.

Scheduled Events

Astro can perform at scheduled events on specific days of the week.

### Letting In and Out

Astro can let dogs in and out with its arm, making sure dogs are inside and outside safely with sensors.