



Sprite

Midway Milestone Presentation

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Mission Statement:

Make interacting with a smart home device engaging and fun.

Value Proposition:

Bring your smart home device to life.

Problem/Solution Overview:

Smart home device owners rarely take advantage of their smart home device's full capabilities. Sprite is an app that personifies your smart home device, making it easier & more engaging to use your device. Your Sprite depends on you, fostering a sense of responsibility & creating a relationship between you and your device.



Presentation Overview:

1. Heuristic evaluation results
 2. Overview of revised design
 3. Prototype implementation status
 4. Demo of prototype
 5. Summary
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Heuristic Evaluation Results + Revised Design



Severity 3 - 4 HE Issues

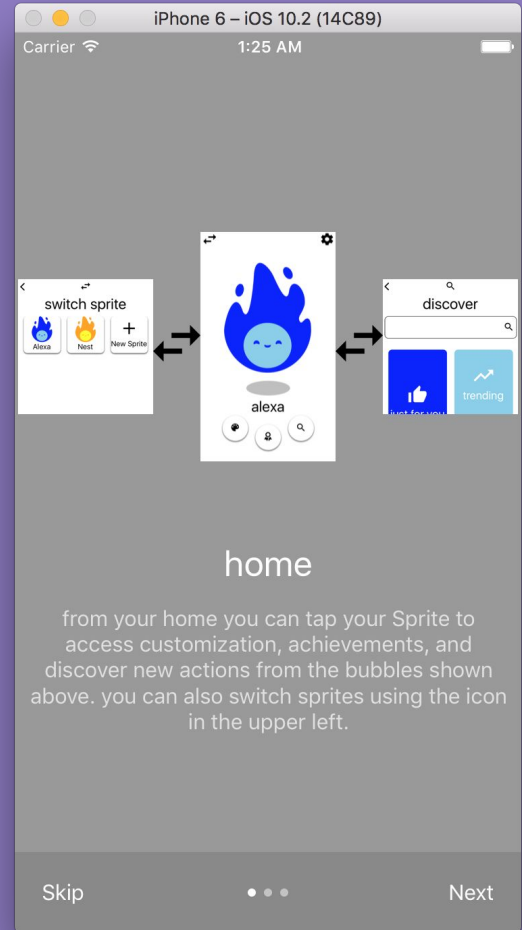
Help and Documentation:

- Not intuitive to click on the Sprite on first open of app (Severity 4)
 - Unclear how to pair smart home device and app (Severity 3)
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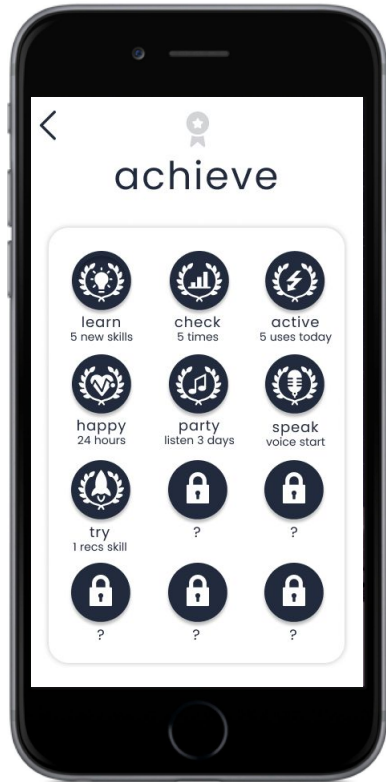
Revised Design: Tutorial Screen

HE Evaluation: Need help for first time users explaining how app works.

Fix: Created walk-through tutorial for first-time users



Severity 3-4 HE Issues

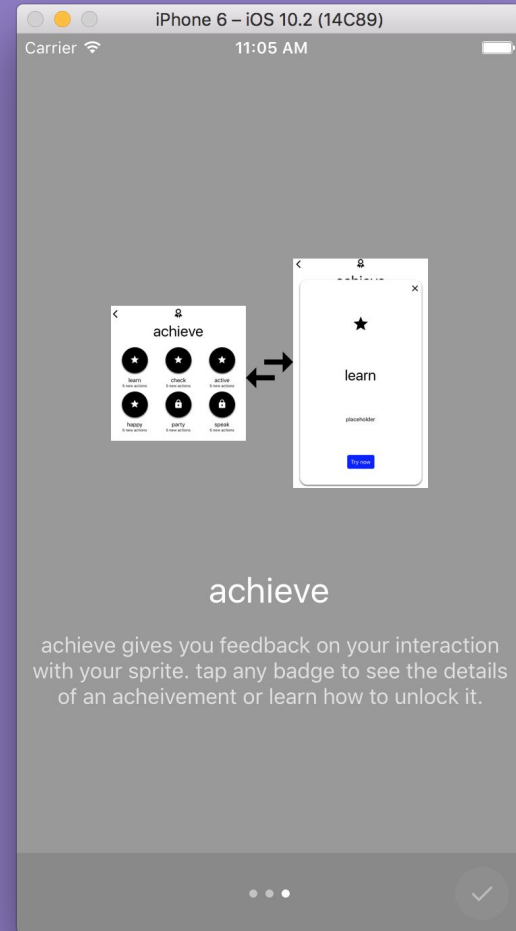


- Consistency and Standards:
 - “Achieve” screen buttons are not clear if clickable (Severity 3)
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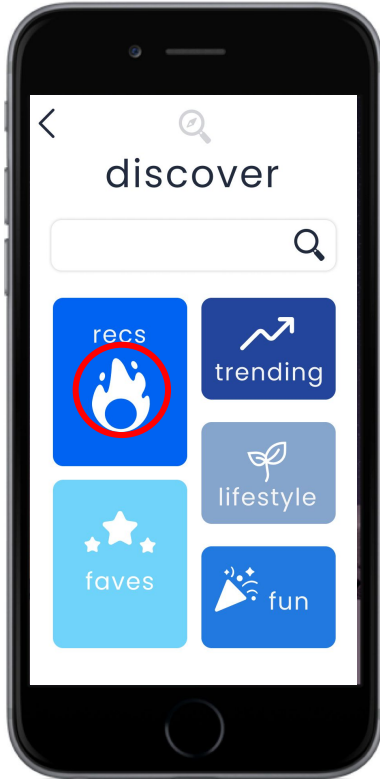
Revised Design: Tutorial Screen

HE Evaluation: Buttons
don't seem clickable

Fix: Created
walk-through tutorial
for first-time users



Severity 3-4 HE Issues

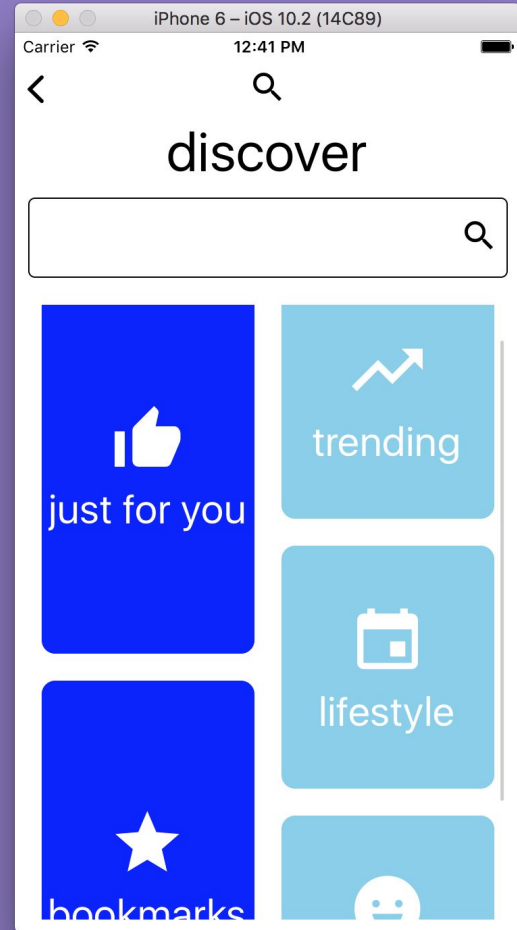


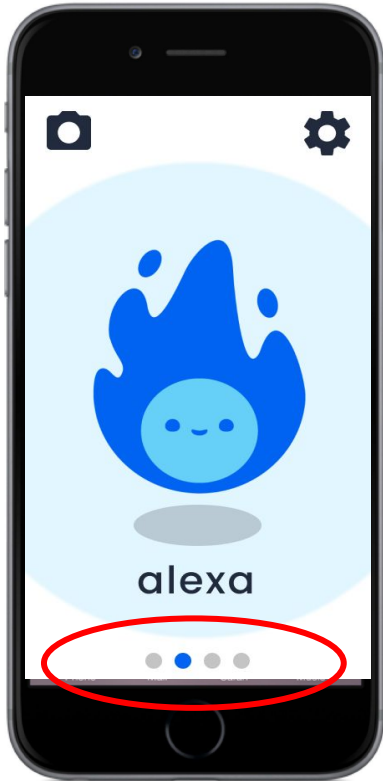
- Consistency and Standards:
 - Create better icons on “Discover” screen - don't use Sprite icon elsewhere besides home screen (Severity 3)

Revised Design: Discover Screen

HE Evaluation: Be consistent with icons on Discover page

Fix: Selected new icons to use for the 5 main categories of actions.





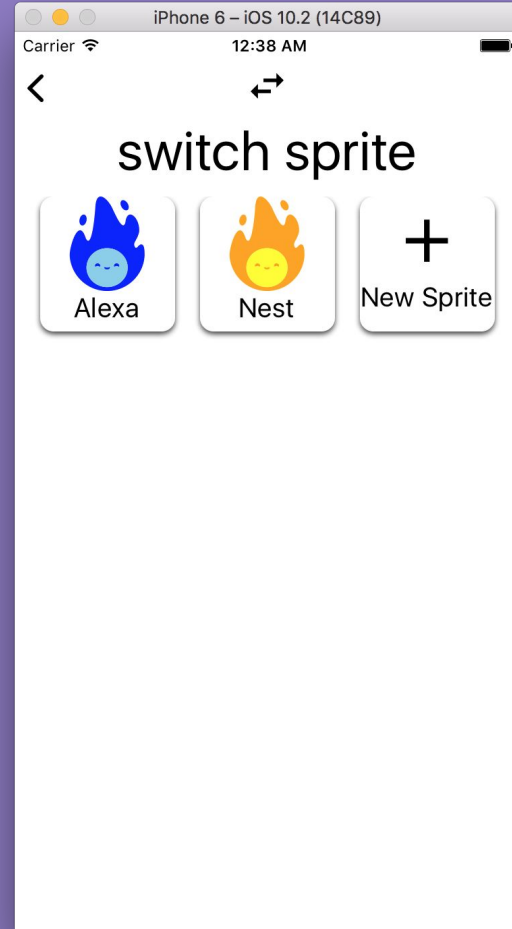
Severity 3-4 HE Issues

- User Control and Freedom:
 - From “Recommend” screen, user isn’t able to immediately access home page - must click 2 back buttons to return
 - **Did not like swiping between Sprites - would prefer to see them all listed on a “collection” of Sprites screen**
 - Error Prevention/Recognition over Recall:
 - Icons not self explanatory - unclear what camera, settings, and paintbrush icons will do
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Revised Design: Sprite Collection Screen

HE Evaluation: Swiping
between Sprites is time
consuming

Fix: Created a
collection screen of
Sprites to view all at
once



New Tasks:

- Create your first Sprite (simple)
 - Learn a new action (moderate)
 - Unlock a new badge (complex)
 - Switch to Nest Sprite (simple)
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Prototype Implementation Status

Tools Used

We used:

- Built prototype in **React Native**
 - **Expo** app to test prototype
 - Online iOS simulator and Android Emulator
 - **Figma** for UI screens + prototyping
 - CS47 helpful for React Native
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Implemented Features:

- Learn a new action task (moderate) implemented
 - Uses Wizard of Oz techniques for Speech Recognition
 - Customize Sprite
 - Search
 - Bookmarking
 - Animated Sprite
 - Switch Between Sprites (new screen)
 - Onboarding
-

Unimplemented Features:

Need to finish:

- Create Account / Link to Smart Home Device
 - Will use Wizard of Oz for connecting to a smart home device
- Multiple instructions
- Change Sprite name
- Swipe between Sprites
- Tutorial & Create a new Sprite walkthrough
- More Skills
- Settings

Future Plan:

- Moods
 - Voice Recognition (for real)
 - More Animations
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Wizard of Oz & Hard Coding

Wizard of Oz:

- Once an action is completed - user has to wait for completion instead of voice recognition

Hard Coding:

- Selection of actions are brainstormed by us based on actual tasks
 - Not generated from an online library
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Issues/Questions

- Does the concept still work with Wizard of Oz?
 - What can we do to make it cuter?
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Demo

New Tasks:

- Create your first Sprite (simple)
 - **Learn a new action (moderate)**
 - Unlock a new badge (complex)
 - Switch to Nest Sprite (simple)
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Demo Link:

<https://bit.ly/2DVbbpt>





Summary:

- Changes:
 - Removed camera feature, added back
Switch Sprite collection page
 - Added Animations
 - Local database for tracking changes
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Thank You!
