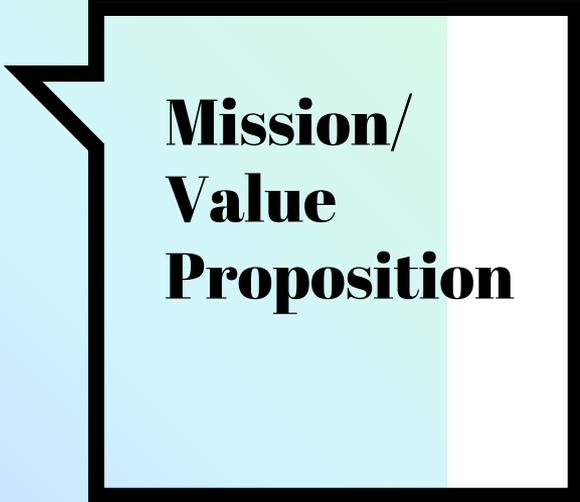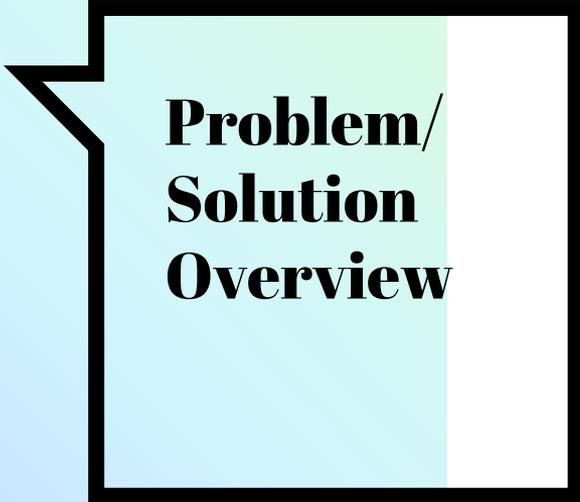# Medium-Fi Prototype

Rachel J and Esther G

Mission/ Value Proposition

- "Make voice interaction work for you!"
- Make voice interaction easier to manage, track, and customize
- Help guests communicate properly with others' voice assistants
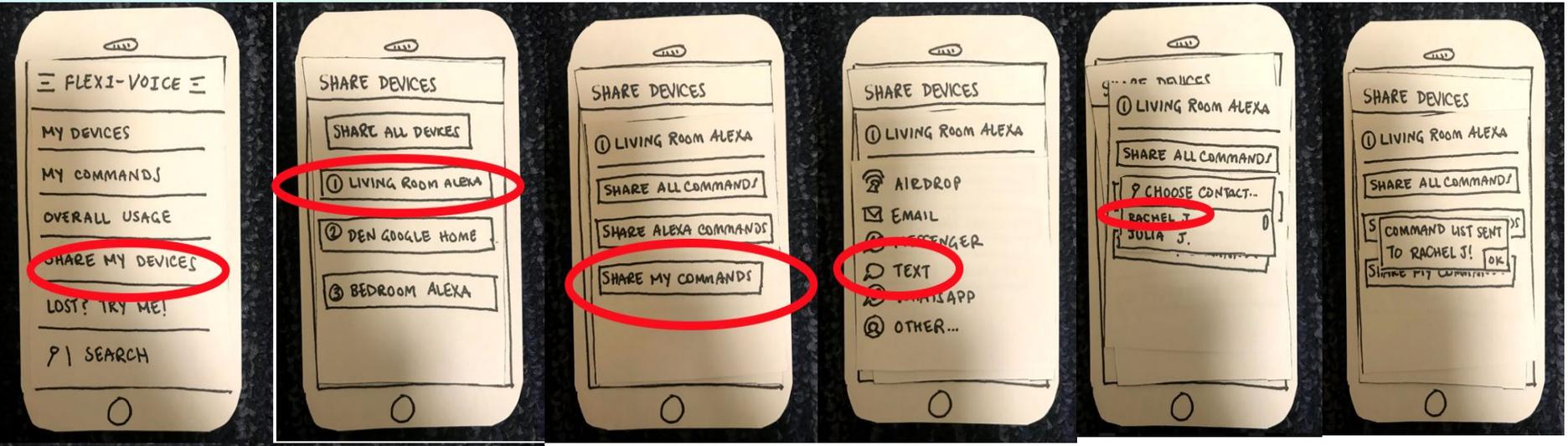
Problem/ Solution Overview

- People want to be flexible in how they interact with their smart devices
- Our app allows you to:
  - Keep track of your devices
  - Define your own commands
  - Share information about your devices with others

Task 1: Share my commands (complex)

Text your personalized commands list for the Living Room Alexa to someone named Rachel J
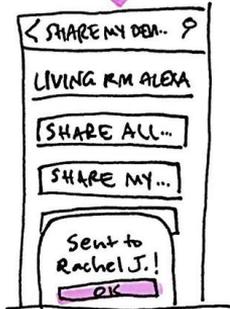
Old Interface

Home screen

FLEXIVOICE

MY DEVICES   MY COMMANDS

USAGE HISTORY   SHARE

This Week's Usage

RECOMMENDATIONS

New Interface

Task 1

< SHARE MY DEVICES

SHARE ALL INFO

DEVICE 1   DEV 2

DEV 3   ADD NEW

SHARING HISTORY

< SHARE MY DEVICES

LIVING RM ALEXA

SHARE ALL COMMANDS

SHARE MY COMMANDS

SHARE PRESETS

< SHARE MY DEVICES

LIVING RM ALEXA

SHARE ALL COMM...

AIRDROP
TEXT
EMAIL
MESSENGER
... OTHER

< SHARE MY DEVICES

LIVING RM ALEXA

SHARE ALL ...

SHARE MY ...

CHOOSE CONTACT

RACHEL J.
ALEX S.

< SHARE MY DEV...

LIVING RM ALEXA

SHARE ALL...

SHARE MY...

Sent to Rachel J.!

OK

Medium-Fi Task Flow

iPhone 6/7/8 Plus – 2

SHARE MY DEVICES

SHARE ALL DEVICE INFO

Living Room Alexa   Den Google Home

Bedroom Alexa   Add New Device

SHARING HISTORY

Fri 10/26	Rachel J.	Shared Living Room Alexa
Wed 10/24	Rachel L.	Shared All Commands
Wed 10/24	Benjamin J.	Shared Den Google Home
Sun 10/21	Esther G.	Shared Living Room Alexa

RE-SHARE

iPhone 6/7/8 Plus – 3

SHARE MY DEVICES

Living Room Alexa

SHARE ALL COMMANDS

SHARE MY PERSONALIZED COMMANDS

SHARE PREINSTALLED COMMANDS

iPhone 6/7/8 Plus – 4

SHARE MY DEVICES

Living Room Alexa

SHARE ALL COMMANDS

SHARE MY PERSONALIZED COMMANDS

SHARE PREINSTALLED COMMANDS

- AIRDROP
- EMAIL
- FACEBOOK MESSENGER
- TEXT
- WHATSAPP
- ··· OTHER

iPhone 6/7/8 Plus – 5

SHARE MY DEVICES

Living Room Alexa

SHARE ALL COMMANDS

SHARE MY PERSONALIZED COMMANDS

SHARE PREINSTALLED COMMANDS

CHOOSE CONTACT

Rachel J.
Max L.
Sam S.
Judy J.

iPhone 6/7/8 Plus – 6

SHARE MY DEVICES

Living Room Alexa

SHARE ALL COMMANDS

SHARE MY PERSONALIZED COMMANDS

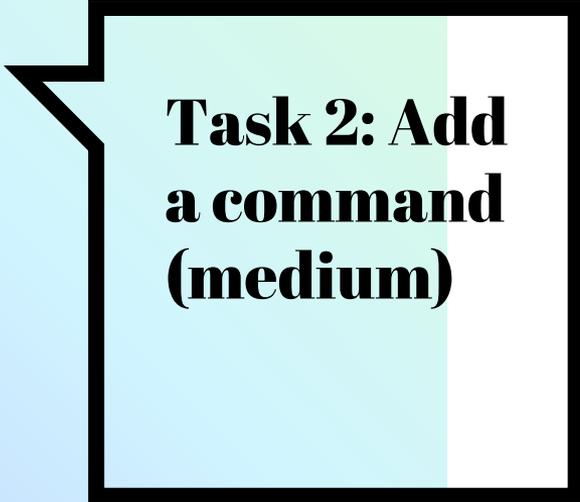SHARE PREINSTALLED COMMANDS

Command list sent to Rachel J.!

OK

Changes from Low-Fi Prototype

1. Put devices in a grid format
2. Added sharing history
3. Changed wording: Share My Commands to Share My Personalized Commands and Share Alexa Commands to Share Preinstalled Commands

Why? Make choices more clear

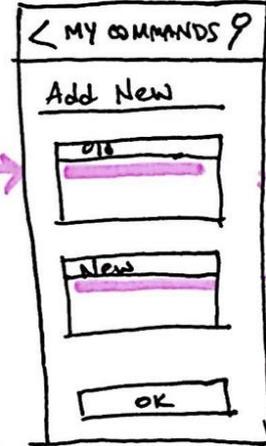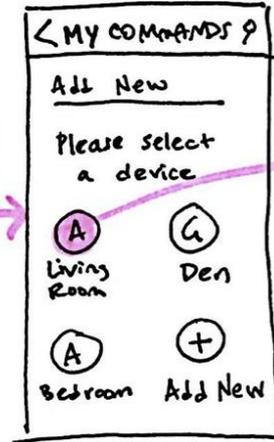**Task 2: Add a command (medium)**

Add a new personalized command to your Google Home, changing the command from "Google, turn on my Apple TV" to "Google, turn on my TV"
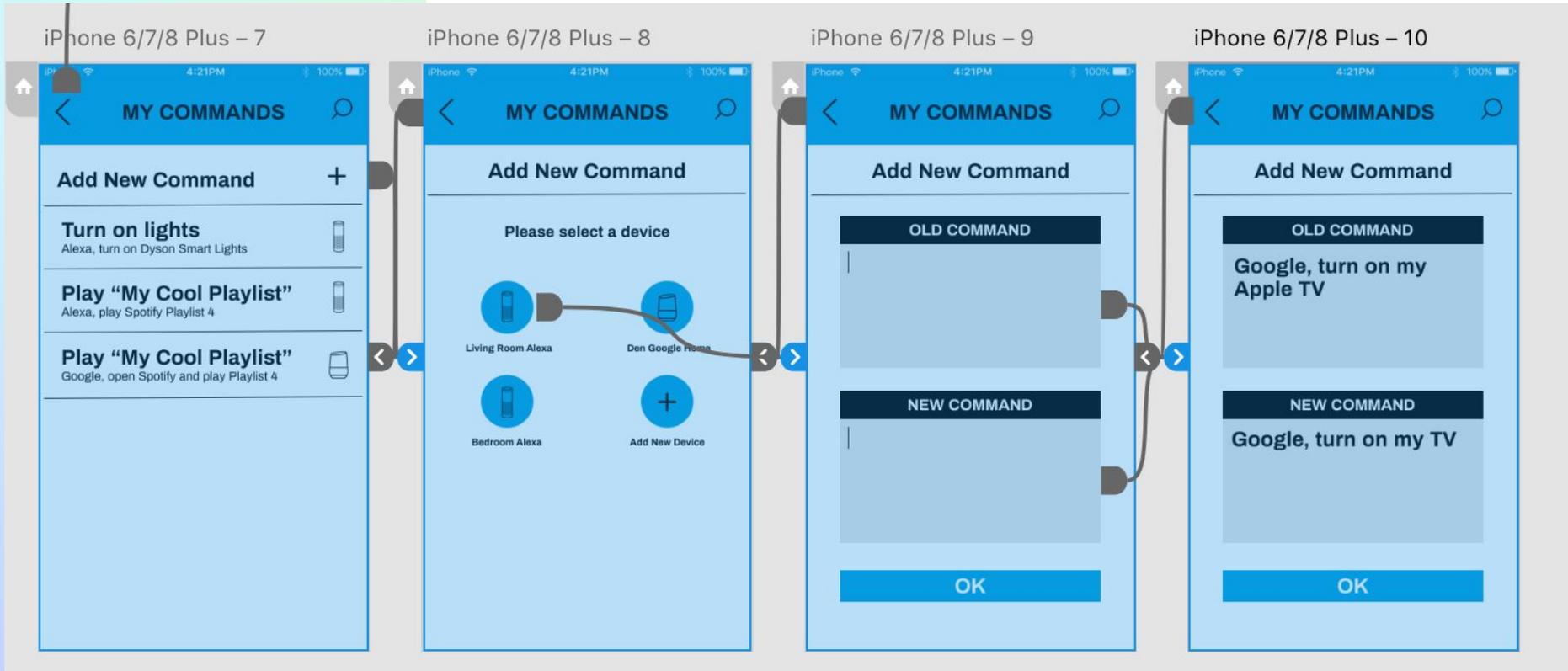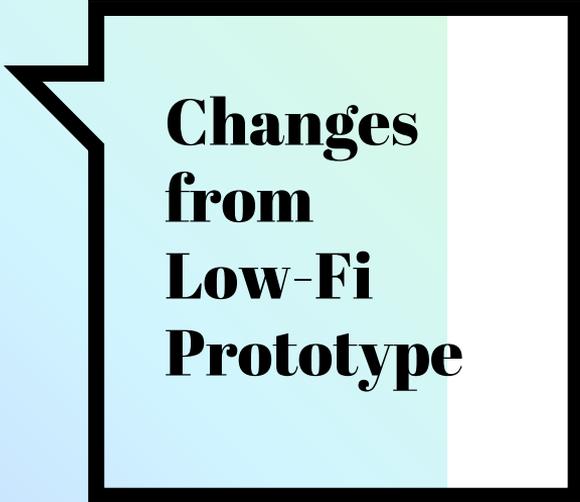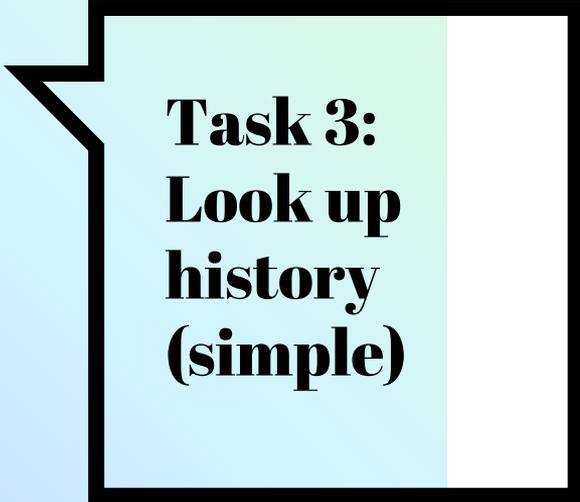
Old Interface

New Interface

Task 2 ✳

Screen 1: MY COMMANDS
< MY COMMANDS 🔍

Add New   +

Play "My Cool..."   Ⓐ
Alexa, turn on...

Play "My Cool..."   Ⓖ
Google, go to Spotify...

Turn on lights   Ⓐ
Alexa, turn on Dyson...

Call on Uber   Ⓐ

Screen 2: MY COMMANDS
< MY COMMANDS 🔍

Add New

Please select a device

Ⓐ   Ⓖ
Living   Den
Room

Ⓐ   ⊕
Bedroom   Add New

Screen 3: MY COMMANDS
< MY COMMANDS 🔍

Add New

Old

New

OK

Screen 4: MY COMMANDS
< MY COMMANDS 💗

Add New

Old
Google, turn on my Apple TV

New
Google, turn on my TV

OK

Medium-Fi Task Flow

iPhone 6/7/8 Plus – 7

MY COMMANDS

Add New Command +

Turn on lights
Alexa, turn on Dyson Smart Lights

Play "My Cool Playlist"
Alexa, play Spotify Playlist 4

Play "My Cool Playlist"
Google, open Spotify and play Playlist 4

iPhone 6/7/8 Plus – 8

MY COMMANDS

Add New Command

Please select a device

Living Room Alexa

Den Google Home

Bedroom Alexa

Add New Device

iPhone 6/7/8 Plus – 9

MY COMMANDS

Add New Command

OLD COMMAND

NEW COMMAND

OK

iPhone 6/7/8 Plus – 10

MY COMMANDS

Add New Command

OLD COMMAND

Google, turn on my Apple TV

NEW COMMAND

Google, turn on my TV

OK

Changes from Low-Fi Prototype

1. Took out Old and New tags
2. Added device icons
3. Put devices on new page and in grid format

Why? Focus users' attention
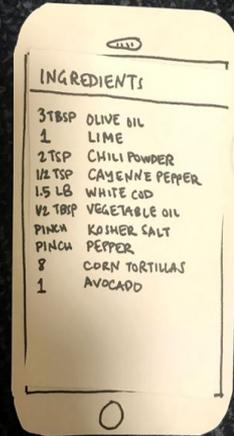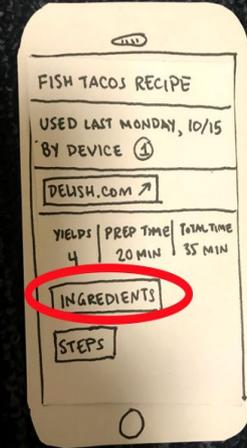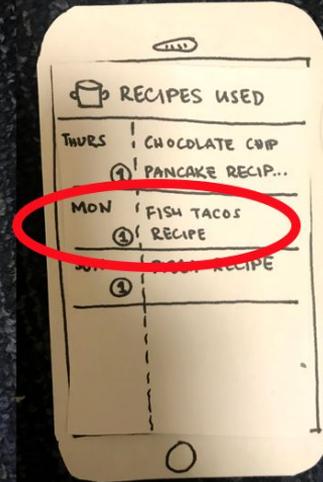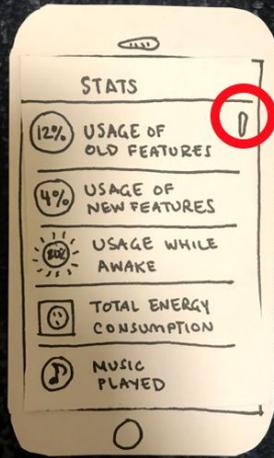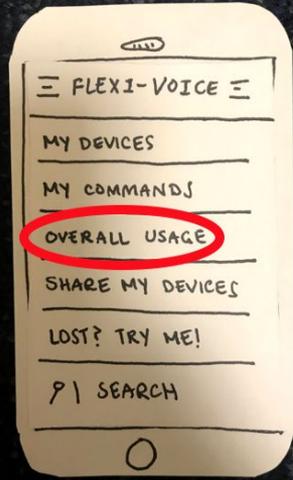
Task 3: Look up history (simple)

Look up the ingredients in the recipe you used the Living Room Alexa to make last Monday
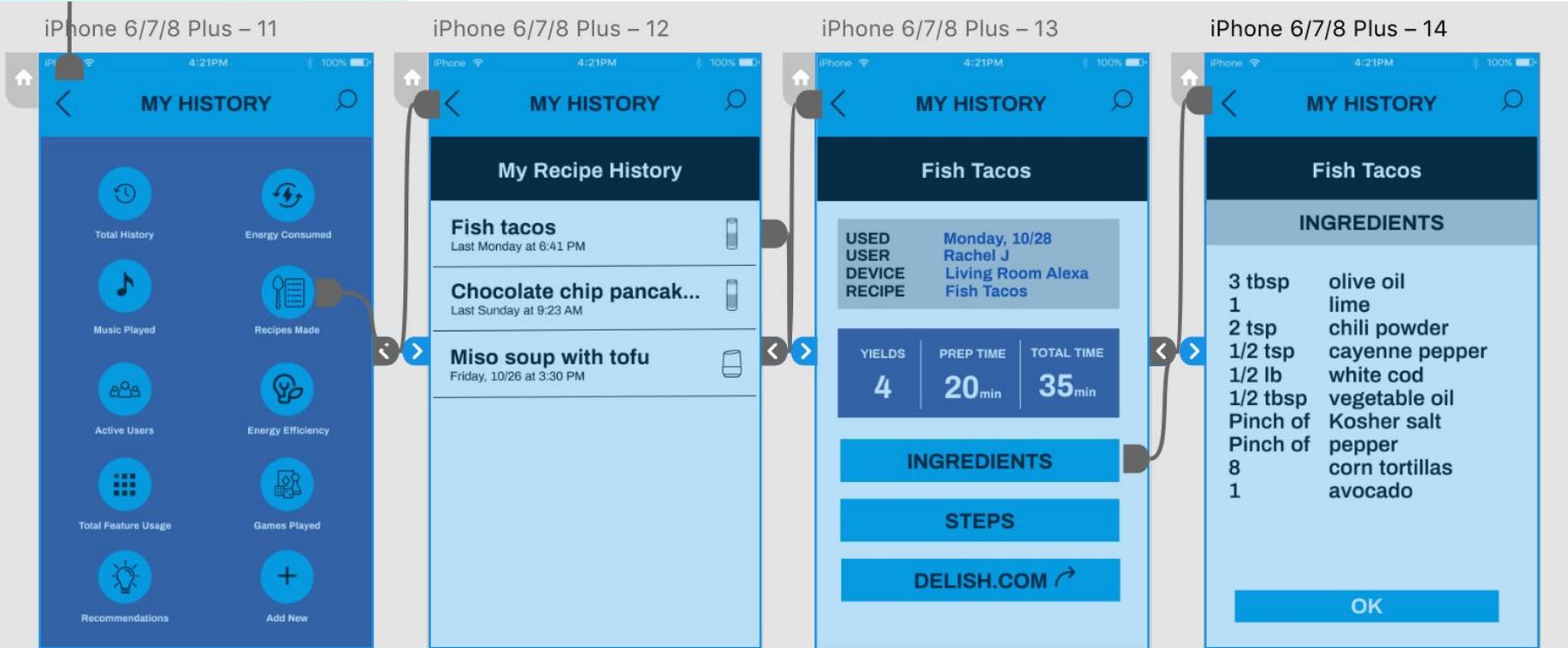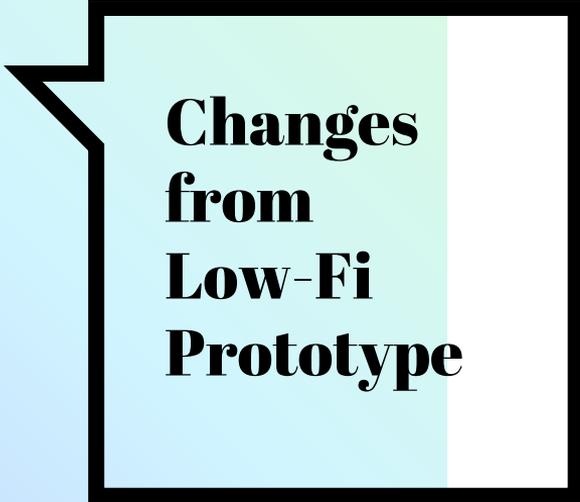
Old Interface

New Interface

Task 3

Medium-Fi Task Flow

iPhone 6/7/8 Plus – 11

MY HISTORY

- Total History
- Energy Consumed
- Music Played
- Recipes Made
- Active Users
- Energy Efficiency
- Total Feature Usage
- Games Played
- Recommendations
- Add New

iPhone 6/7/8 Plus – 12

MY HISTORY

My Recipe History

Fish tacos
Last Monday at 6:41 PM

Chocolate chip pancak...
Last Sunday at 9:23 AM

Miso soup with tofu
Friday, 10/26 at 3:30 PM

iPhone 6/7/8 Plus – 13

MY HISTORY

Fish Tacos

USED	Monday, 10/28
USER	Rachel J
DEVICE	Living Room Alexa
RECIPE	Fish Tacos

YIELDS	PREP TIME	TOTAL TIME
4	20 min	35 min

INGREDIENTS

STEPS

DELISH.COM ↗

iPhone 6/7/8 Plus – 14

MY HISTORY

Fish Tacos

INGREDIENTS

| 3 tbsp | olive oil |
1	lime
2 tsp	chili powder
1/2 tsp	cayenne pepper
1/2 lb	white cod
1/2 tbsp	vegetable oil
Pinch of	Kosher salt
Pinch of	pepper
8	corn tortillas
1	avocado

OK

Changes from Low-Fi Prototype

1. Changed Overall Usage to My Usage History
2. Got rid of scrolling
3. Changed Recipes Used to My Recipe History, and removed date column

Why? Make headings clearer and condense info
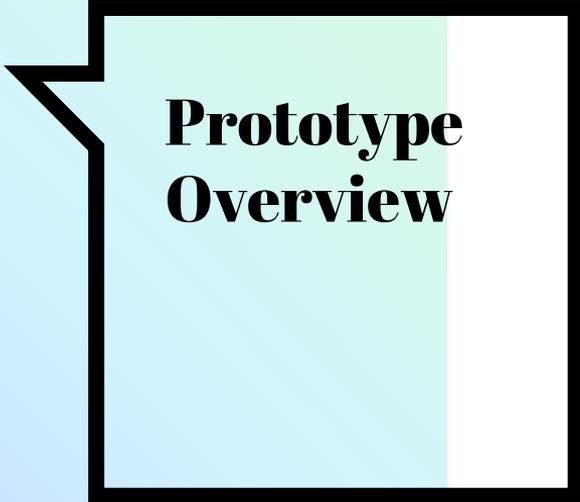
Prototype Overview

- Figma
- What helped:
  - We were able to collaborate on the design in real time
  - It was easy to change colors and add effects to images
- What didn't help:
  - Interface wasn't intuitive
  - Sometimes hard to move elements around
  - Would've like pre-made/pre-sized elements to insert
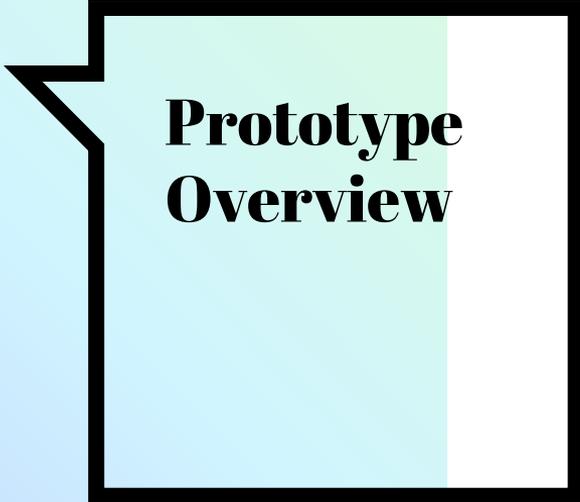
Prototype Overview

- Adobe XD
- What helped:
  - Easy to link from a button to the next screen
  - Easy to share
  - Voice-interactive feature
- What didn't help:
  - Had to add transparent boxes (invisible buttons) to have multiple voice triggers for one screen
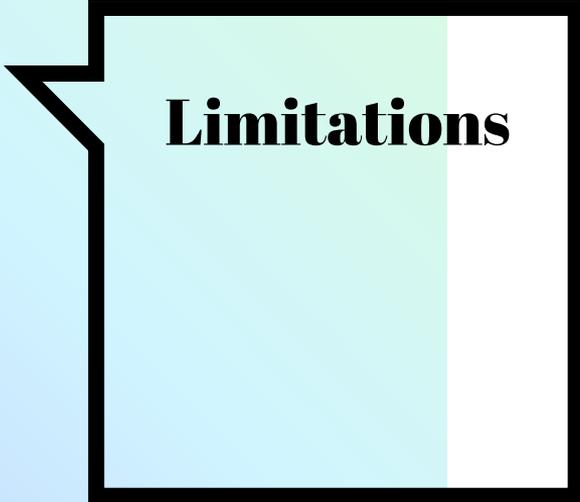
Limitations

- We had six tasks for our low-fi usability testing and had to narrow them down to three.
- Left out "Call a Lyft" task (thought it was too simple)
- Left out "Look up daily usage task" (thought other tasks would be better to put in our medium-fi prototype)
- Left out "Add Garage Google" task (thought it was too complex to show in this prototype)

Wizard of Oz

- Voice: responses to voice are simulated
- Task 2:
  - Old and new commands field get filled with example commands
- Task 1:
  - After clicking on contact, the app shows that you've sent a text to this person
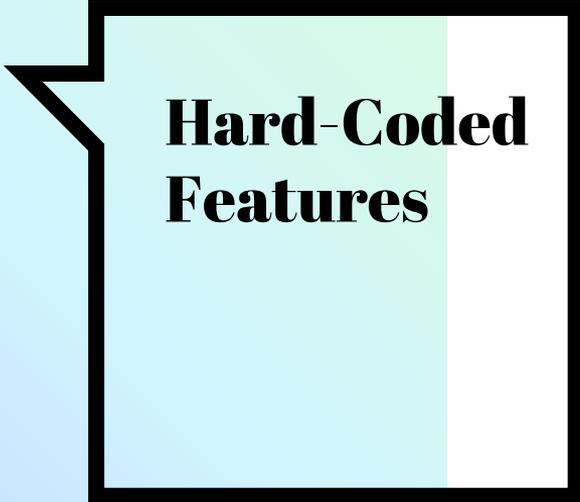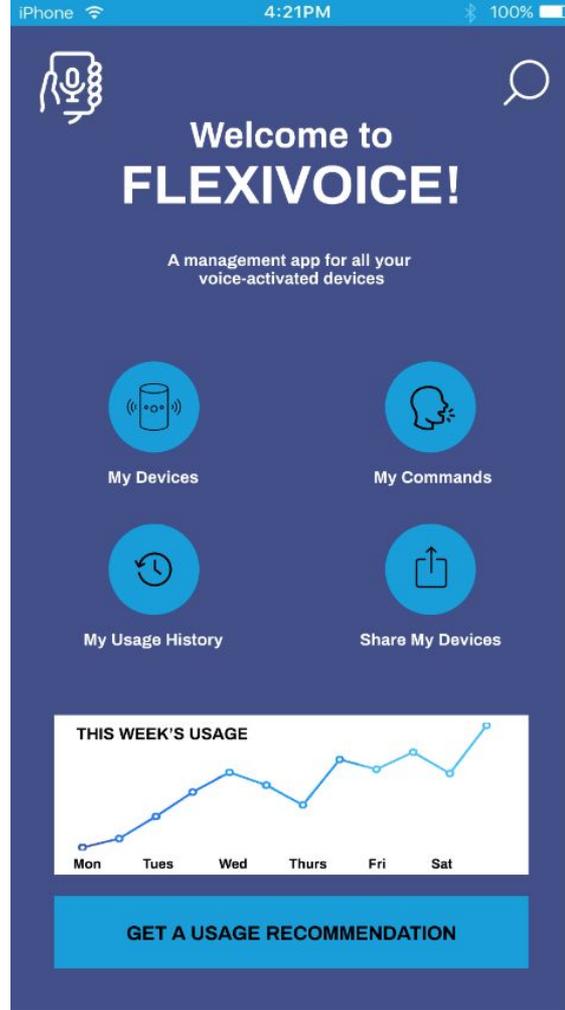
Hard-Coded Features

- This week's usage on main screen (to show a week's usage stats)
- Personalized commands (to show an example of what typical commands would look like)
- Device list (so it would look like the person has devices)
- Old & new command fields (to show an example of a command pair)
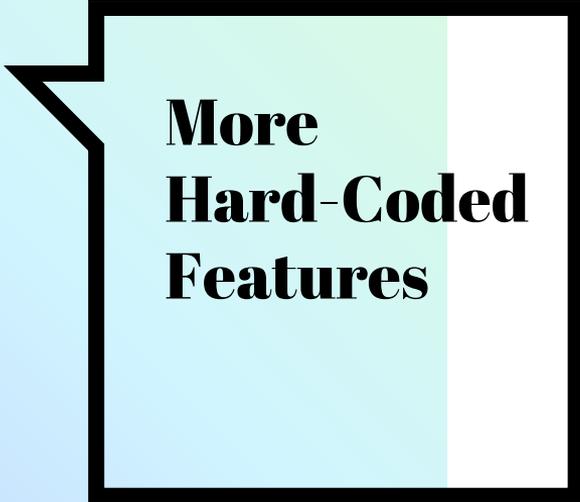
More Hard-Coded Features

- Sharing History (to show what sharing history looks like)
- Contact List (so user can continue to next screen)
- List of recipes and related stats (to demonstrate the search for recipe history task)
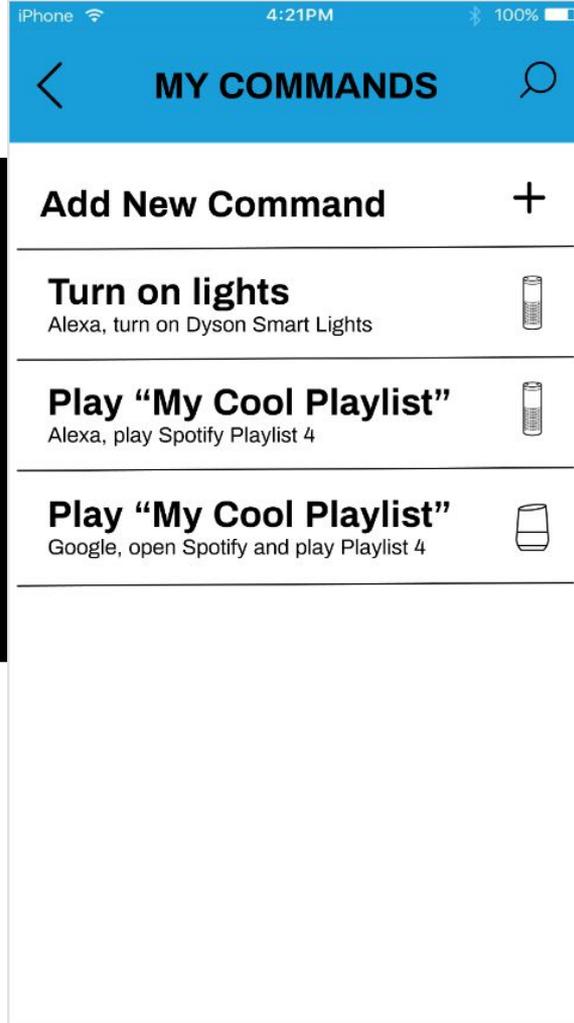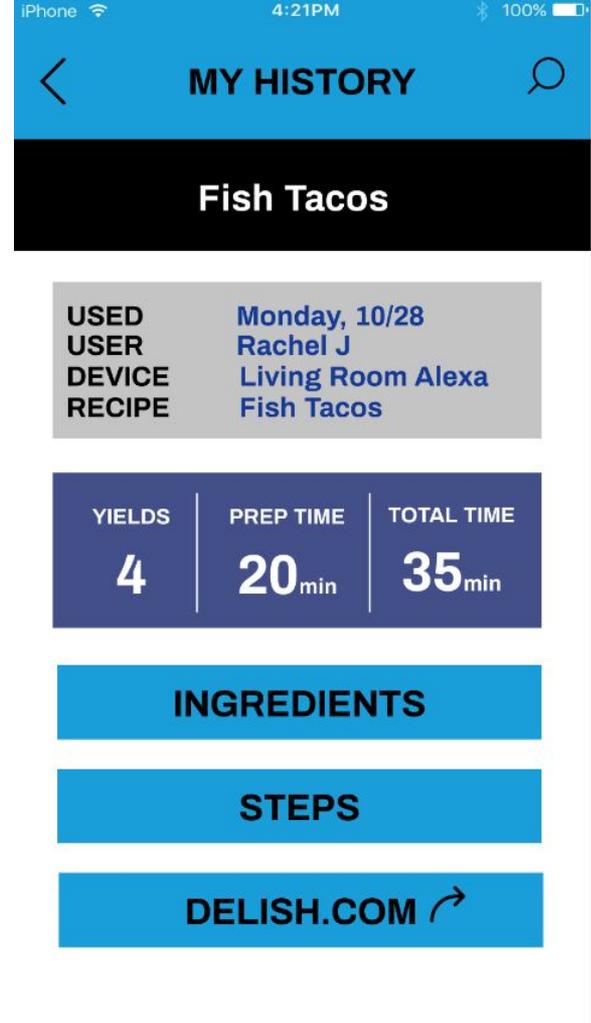
Additional Prototype Screenshots

Home Page

Task 1

Additional Prototype Screenshots

iPhone 📶 4:21PM 🔵 100% 🔋

MY COMMANDS 🔍

Add New Command +

Turn on lights
Alexa, turn on Dyson Smart Lights

Play "My Cool Playlist"
Alexa, play Spotify Playlist 4

Play "My Cool Playlist"
Google, open Spotify and play Playlist 4

Task 2

iPhone 📶 4:21PM 🔵 100% 🔋

MY HISTORY 🔍

Fish Tacos

USED	Monday, 10/28
USER	Rachel J
DEVICE	Living Room Alexa
RECIPE	Fish Tacos

YIELDS	PREP TIME	TOTAL TIME
4	**20**min	**35**min

INGREDIENTS

STEPS

DELISH.COM ↗

Task 3