

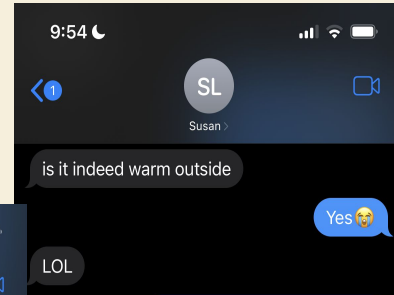
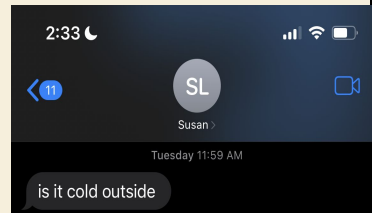
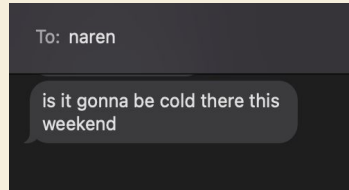
A6: Med-Fi Prototype

Ashley, Daphne, Eliza, Leon

Problem

Wasting time and energy deciding on how the weather will actually feel + deciding **what to wear/pack** (and usually getting it wrong)

Real World Need! (our friends within the last week)



Solution



FitCast! A tool that determines how the weather **truly feels** + makes **clothing/accessory suggestions** based on the current weather, weather changes, your schedule, and your feedback

Value Proposition:

Interpreting weather forecasts to relieve clothing decision fatigue

Design Values

Simplicity:

Ensure that the app is simple enough for it to not increase mental burden of interpreting the weather

Adoptability:

Make design choices that ensures that tasks are intuitive, very easy to learn across all age groups

User Autonomy:

Preserve user autonomy when it comes to clothing choices, let the user choose whether or not to follow a suggestion

Inclusion:

Some people may have cultural attire, or aversions to certain articles of clothes that need to be accounted for

Accuracy:

Weather suggestions and true feel must be accurate otherwise users will not want to use the app at all

Empathy:

Our app is empathetic to the stress that goes into preparing for weather changes, and will maintain an empathetic tone

Ethical Implications x Design Values

THE BACKSTABBER

What could cause people to lose trust in your product?

Simplicity

Accuracy

User
Autonomy

Inclusion

THE RADIO STAR

Who or what disappears if your product is successful?

Empathy

THE CATALYST

How might cultural habits change how your product is used? And how might your product change cultural habits?

Inclusion

User
Autonomy

THE FORGOTTEN

When you picture your user base, who is excluded? If they used your product, what would their experience be like?

Inclusion

Adoptability

Key Features We Want to Implement

Simplicity

Adoptable

**User
Autonomy**

Inclusion

Automated Logging

Utilise apple watch and location tracking to help determine user preferences automatically to reduce mental overhead

Manual Calibration

User can say what they typically wear what they don't + when a user's is not happy with a suggestion during or at the end of day, have the ability to immediately input feedback

Smart Suggestions

Based on aggregated user data and user's personal preferences, tailor clothing suggestions and determine 'true-feel' of weather for each person

Explanation of Clothing suggestions

Provide user with some autonomy given the information about the weather + explains why you should pack a hoodie or sunglasses etc.

Accuracy

Empathy

**User
Autonomy**

Value Tensions

Accuracy



**Simplicity,
Adoptability**

App may be too simple to show accurate details and get enough personalized information from the user

**User
Autonomy**



Accuracy

Some users may feel constrained by suggestion rigidity, while others would prefer to have detailed suggestions

Inclusion



Simplicity

More detail and nuance may have to be added to ensure it is more inclusive which may make tasks complex

**User
Autonomy**



Simplicity

Some users would prefer to have lots of information on the weather to make their own decisions

3 Tasks (no changes from A5)

#1 Simple

User is deciding what to wear based on the weather now



2 Moderate

User wants to know if/how they should prepare for indoor temperatures



#3 Complex

User is trying to adapt their clothing wearing habits more closely to their personal temperature preferences



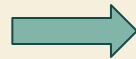
Usability Goals/Measurements

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



Measurements

Count number of mistakes

Ask how likely users are to use the app

Ask the users their favorite aspect of the app

*from A5

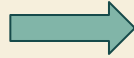
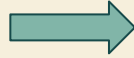
Usability Progress

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



Progress Goals

Prevent mistakes through design, but also allow mistakes to still lead you to the right place

Promote the app's smart capabilities and its benefit over a traditional weather app

Optimize pre-existing features + add gimmicks (e.g how you compare in terms of weather feel to the average person)

*will elaborate on how specifically later

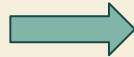


Revised Interface Sketches

Lofi Prototype Changes Rationale

Observations

- (1) Users clicked on icons that weren't intended to be buttons
- (2) Users felt they would never intentionally choose to go to the log/pin pages
- (3) Home screen bottom bar was confusing
- (4) Getting to the correct page is much harder than completing the task on the given page

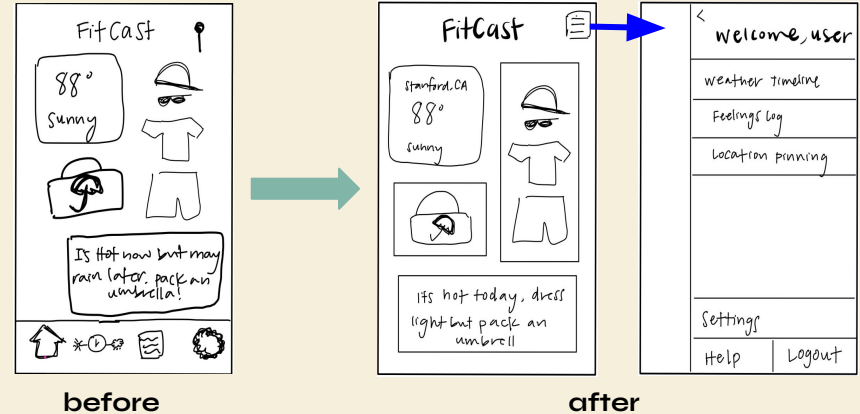


Action Items

- (1) Make pages accessible from those icons (as they seemed intuitive for the users)
- (2) Rely more heavily on notifications and auto pop-ups rather than putting the burden on the user
- (3) Revamp home screen navigation, remove the need for a bottom task-bar
- (4) Focus on streamlining the process to the pages, but keep the steps after gotten to the correct page

#1 Home Screen Changes

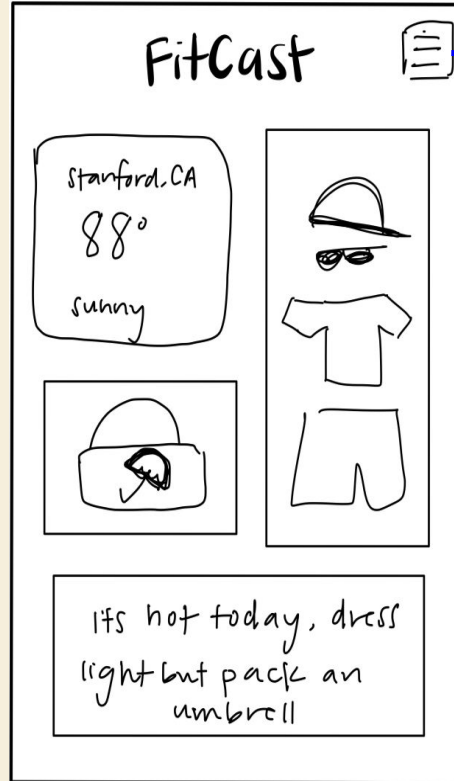
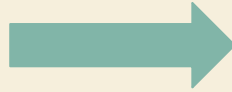
- Removed bottom bar and moved buttons to a side navigation menu (hamburger menu)
- Puts more focus on the contents of the home screen itself, which is the most important especially for simple users
- Pages still accessible through pressing buttons on the homepage.
- Debated between the menu and bottom bar, but ultimately decided that since these icons would only be used by a very small percentage of users (outliers in terms of preferences/willing to manually log), it wouldn't make sense to have a bottom bar



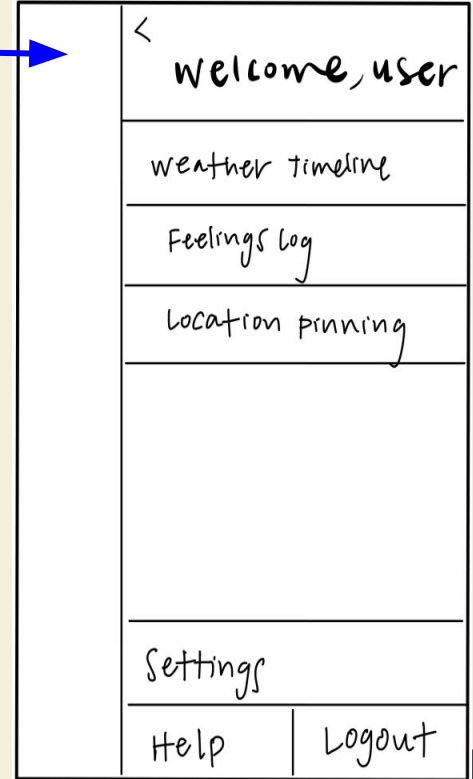
#1 Home Screen Changes



before



after



#2 Pop ups

- Have pop ups overlay the home screen immediately upon opening the app (under certain conditions)
- Takes the burden off the users shoulders, reduces need for buttons along bottom bar of home screen since they will be used rarely
- Centers the app around the home screen, which contains the core functionality we need

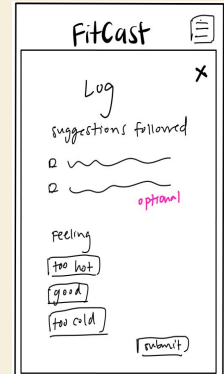


before



after

Pops up immediately after 9pm



#2 Pop ups

Closeups



Have to click buttons

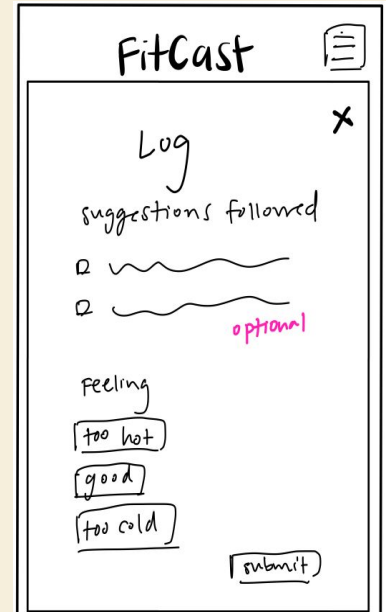
before



Pops up immediately when location is detected as changed

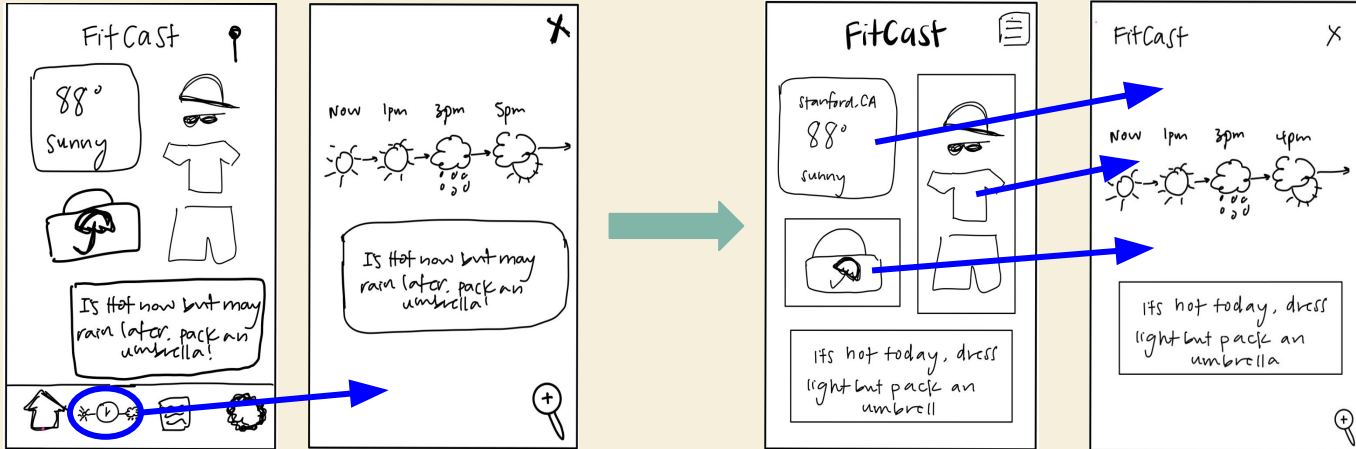
after

Pops up immediately after 9pm



#3 Interconnectivity

- Link up more of the graphics/screen components
 - User can reach pages with more detailed information when they click on several intuitive places, rather than just one
 - Did this with the icons on the zoomed out to zoomed in weather timeline flow (shown in the modified simple task flow slide)



accessible only from the bottom icon

before

after

accessible from multiple places, including explicitly from the side menu (not shown)

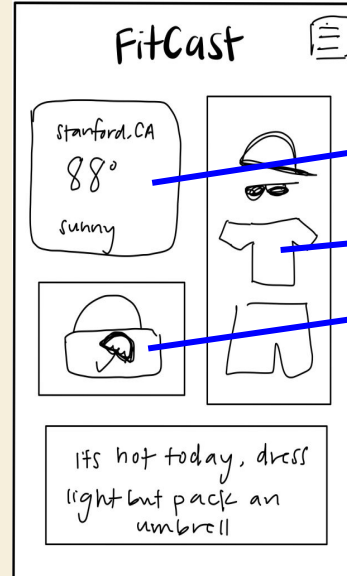
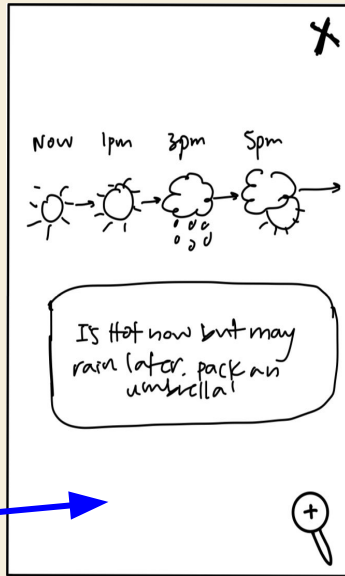
#3 Interconnectivity

Closeup

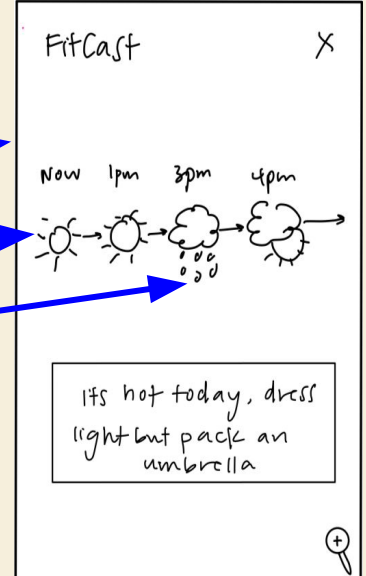


accessible only from the bottom icon

before



after



accessible from multiple places, including explicitly from the side menu (not shown)

Usability Progress

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



- Mistakes were almost always:
 1. Clicking icon that isn't a button
 2. Not knowing where to go to find something
- Addressing this by
 1. Making those icons clickable for interconnectivity
 2. Relying more heavily on popups/notifications so the user doesn't *have* to seek things out themselves

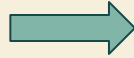
Usability Progress

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



- Noticed our app would likely cater better towards those who seek it out/see a need already
- Want to refine our target audience → not just “everyone” even if everyone could benefit
- Need to ensure that the benefits of FitCast vs. traditional weather app shine through

Usability Progress

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



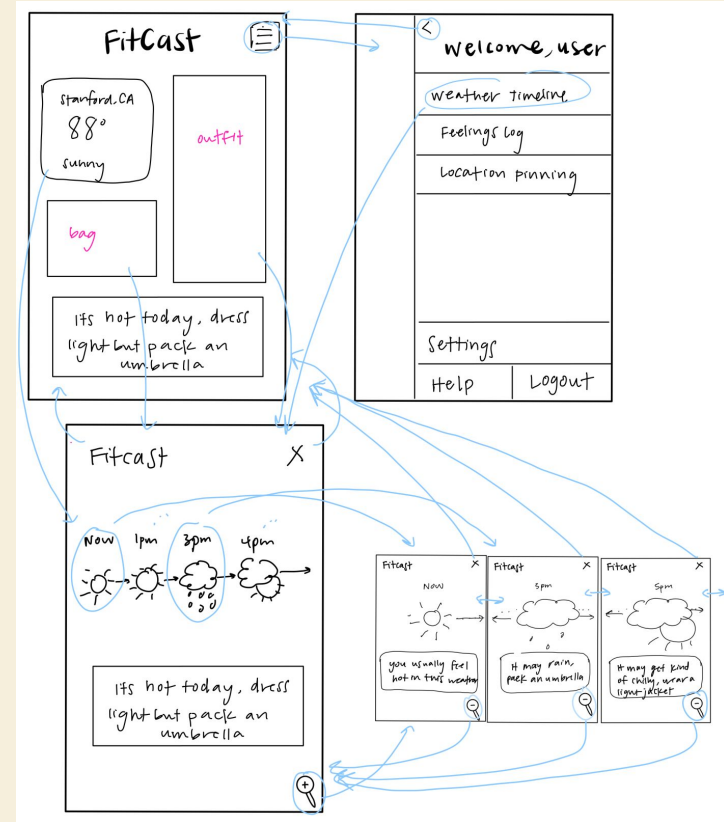
- Users really liked that the home screen itself was comprehensive enough
- Taking advantage of this by centering the app around the home screen, and making all other screens be pop ups or extensions of the home

Simple Task Modifications

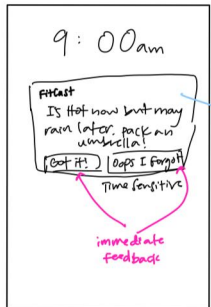
User is deciding what to wear based on the weather

Move weather timeline icon from bottom bar, and make accessible from large widget on home screen or sidebar menu

Make weather timeline **more interactive**: can click time icons to immediately zoom in, rather than pressing the zoom button



before

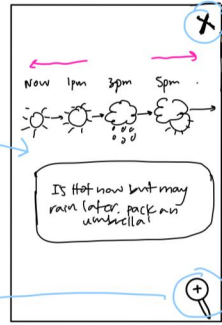


brief weather summary



location pin
icons for what to wear/bring

weather timeline



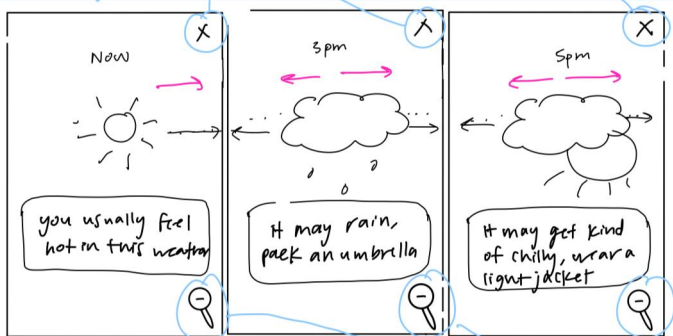
home timeline log settings

FitCast Home Screen

Time sensitive morning FitCast summary notification

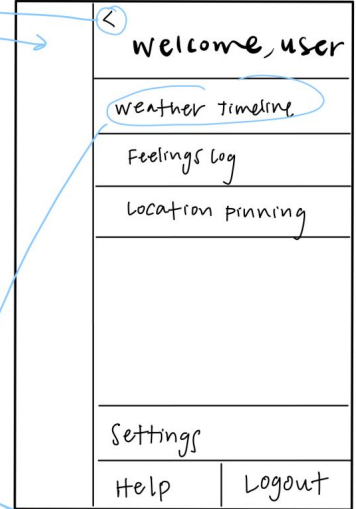
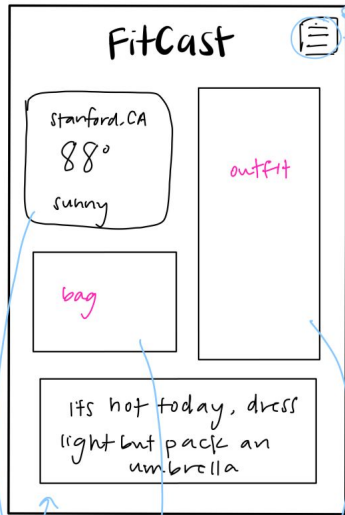
immediate feedback

all same page

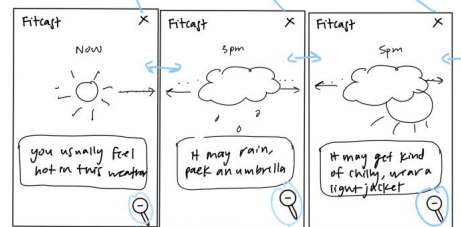
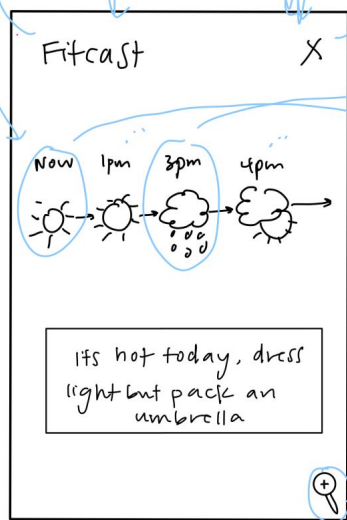


horizontal scroll through zoomed in weather timeline

FitCast



after

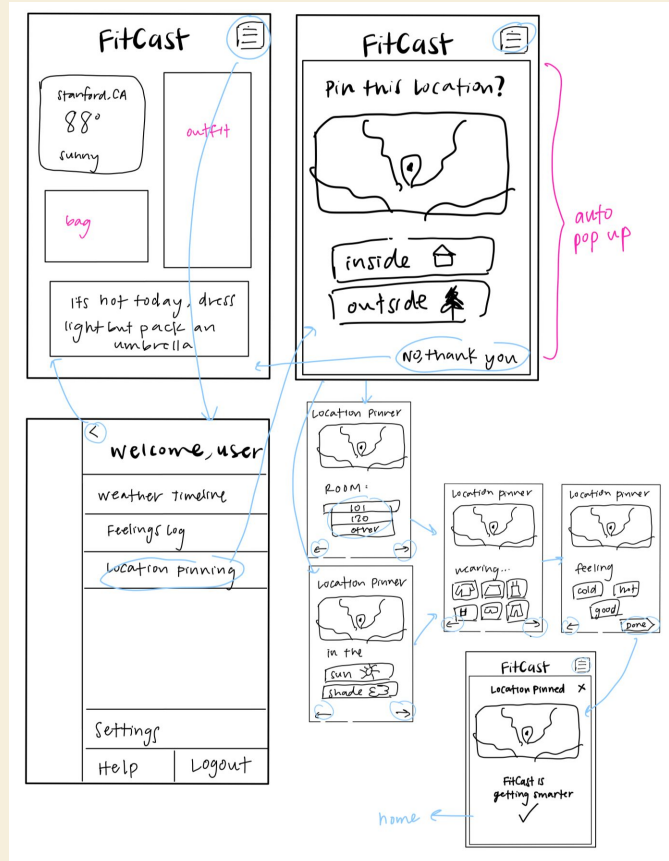


Moderate Task Modifications

User wants to know if/how they should prepare for indoor temperatures

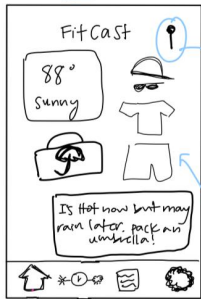
Weather pinning page **automatically pops up** upon opening FitCast if location changed

Move icon from bottom bar and make accessible from menu if user wants to pin after exiting the popup earlier



before

FitCast Home Screen

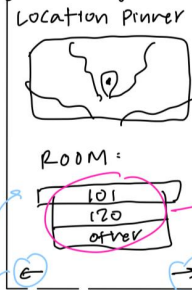


as shown in simple task

Location Pinner Start Screen



gathering indoor info

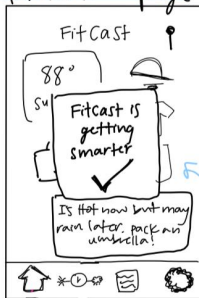


if room user has prev. logged, but they can also input new ones

gathering outdoor info



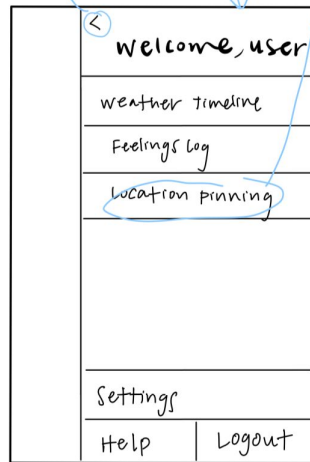
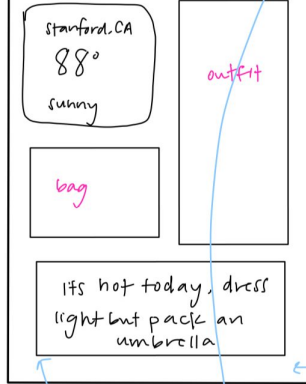
confirmation page



allow users to click instead of making them fill in

logging clothing/reflections

FitCast

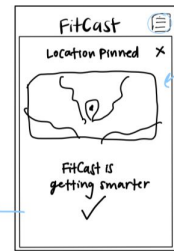
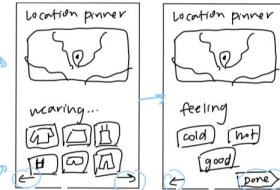


FitCast



auto pop up

after



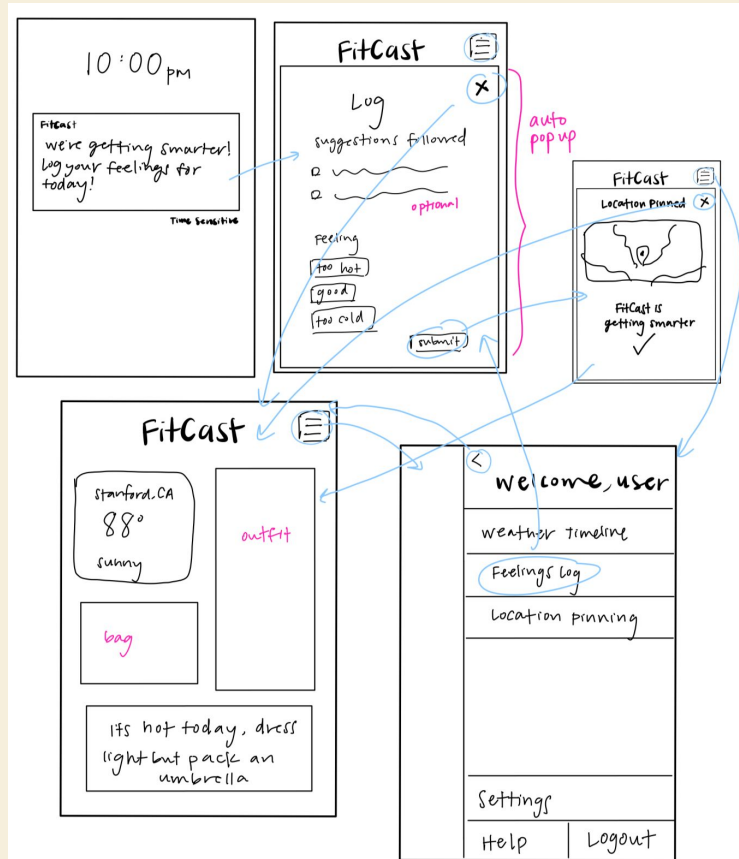
home

Complex Task Modifications

User is trying to adapt their clothing wearing habits more closely to their personal temperature preferences

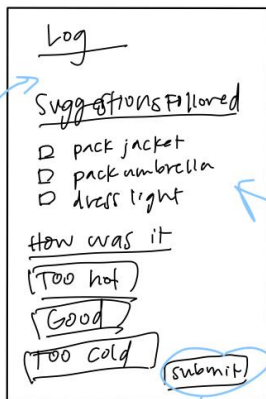
Have the log **auto pop up** upon opening the app after 9pm, as long as it hasn't already been filled out

Move icon from bottom bar and make it accessible from sidebar menu



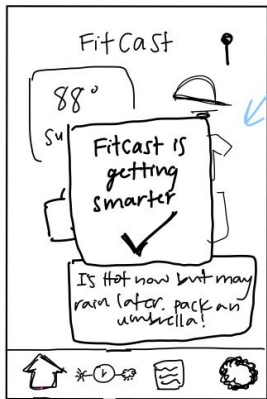


Time Sensitive night notification to remind user to log

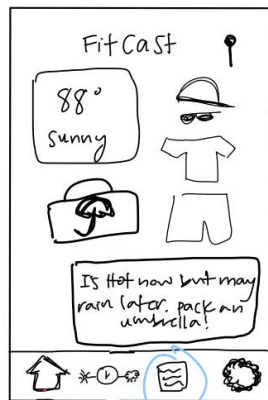


Log form asking suggestions followed + feelings

before

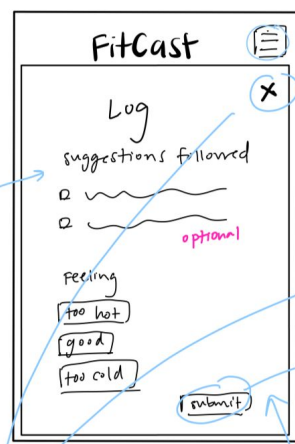


Confirmation page



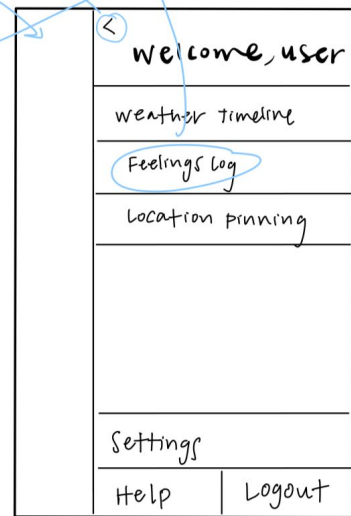
Home screen

* as shown in simple task



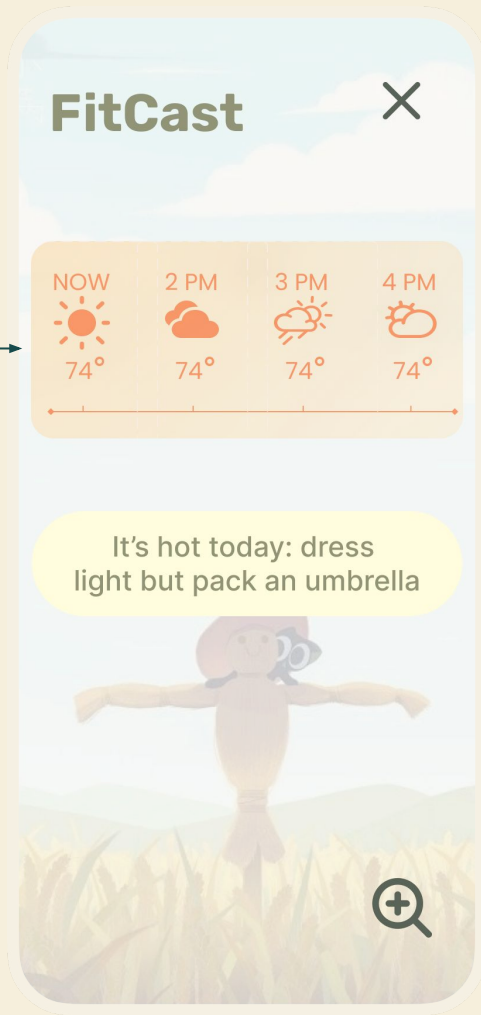
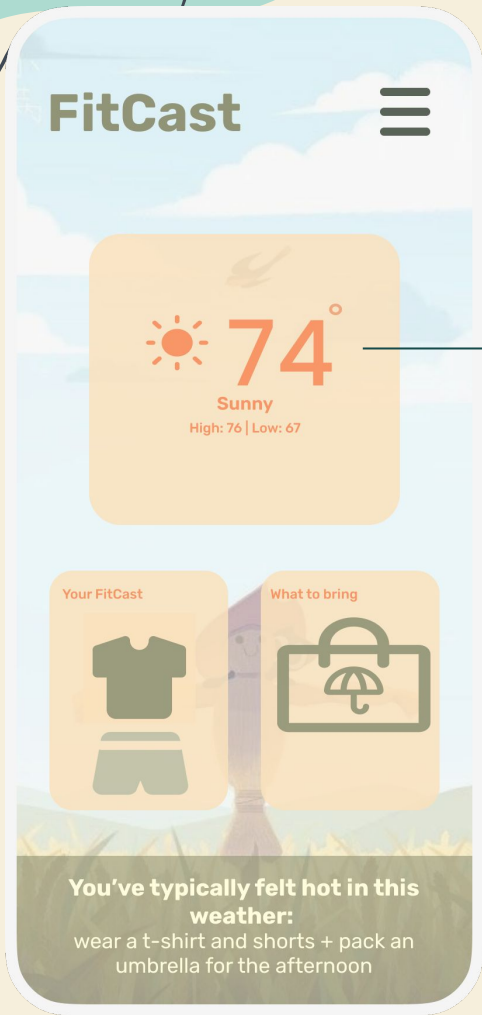
auto pop up

after





Med-fi

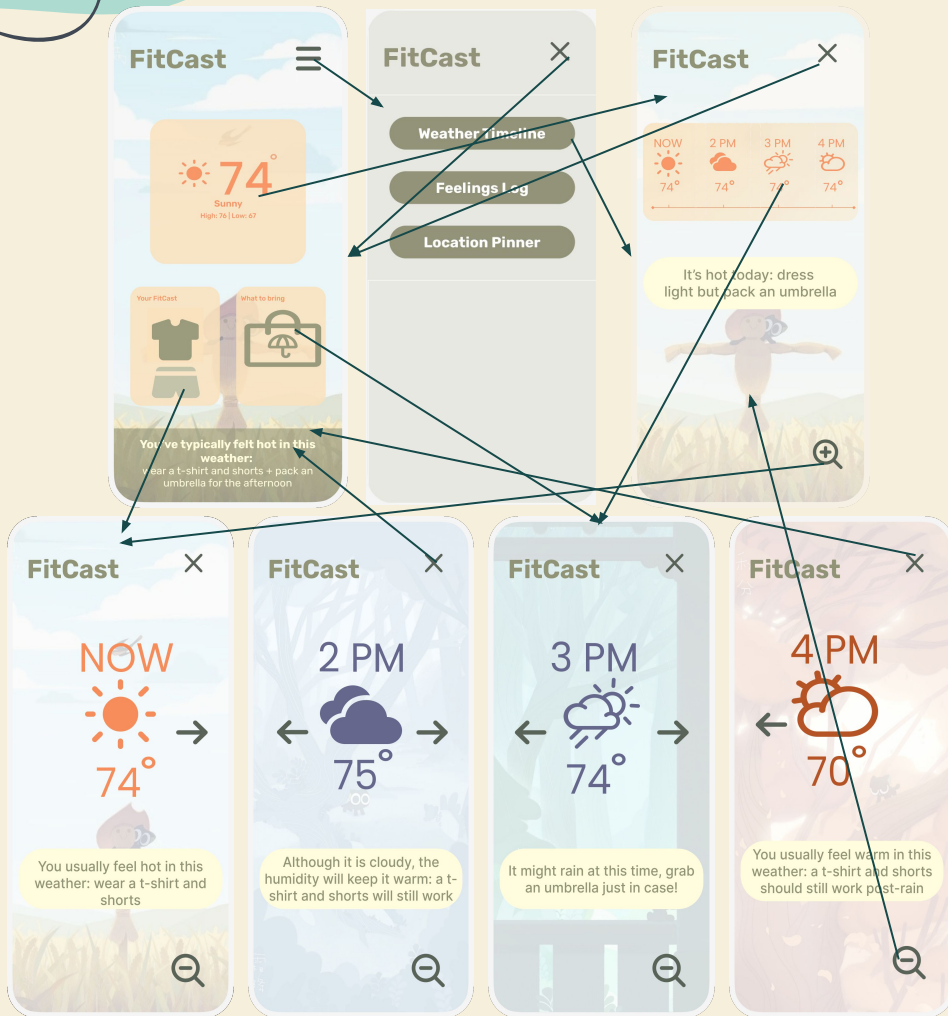



#1 Simple Task

User is deciding what to wear based on the weather now

User can decide what to wear from just our homepage, but can access the timeline for additional information

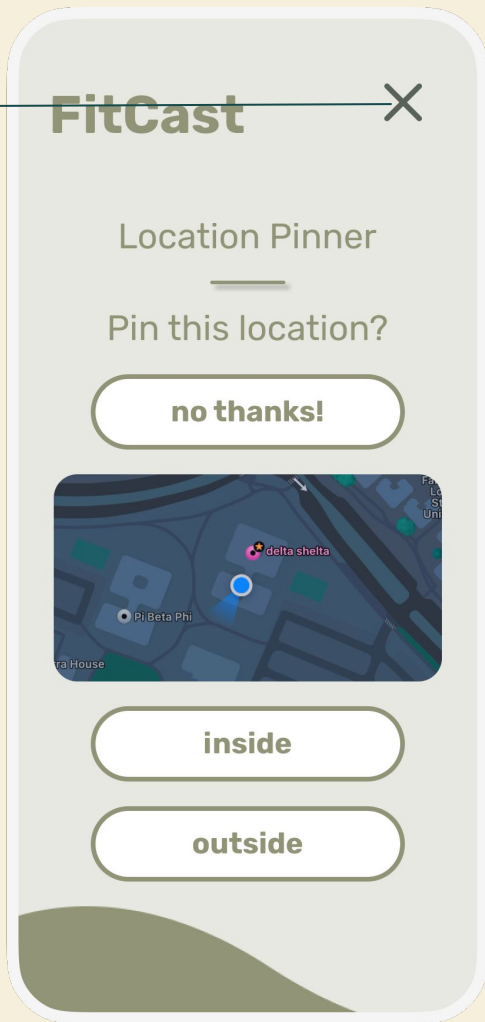
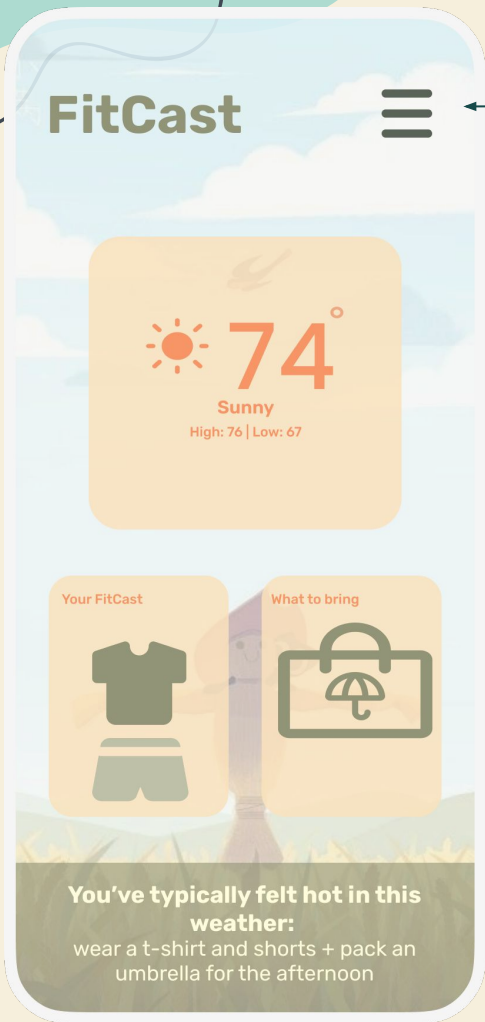
*also accessible from side menu, but that is not the core intention



- All x's lead back to home screen
- All  lead to top right screen (zoomed out weather timeline)
- All times on the zoomed out weather timeline lead to their corresponding zoomed in time

(didn't put arrows for each because would look unreadable)

Expanded timeline view, with weather interpretations for each specific time of day

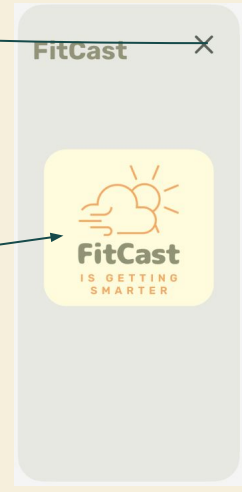
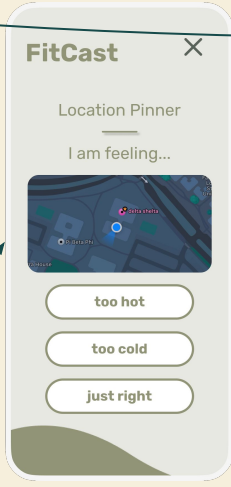
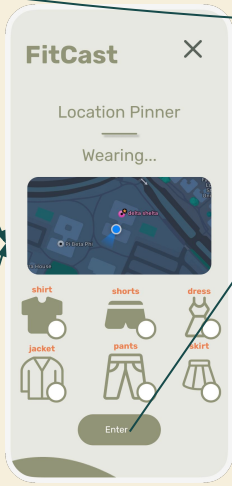
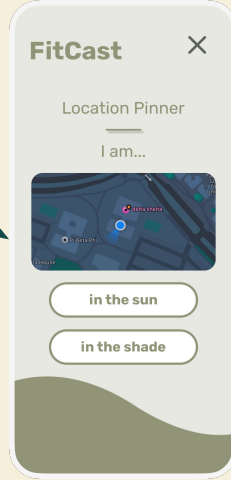
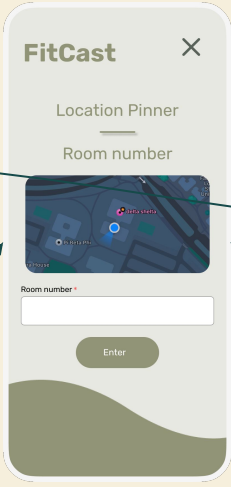
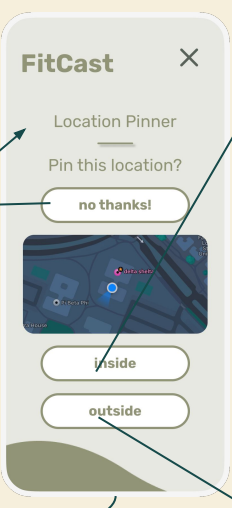
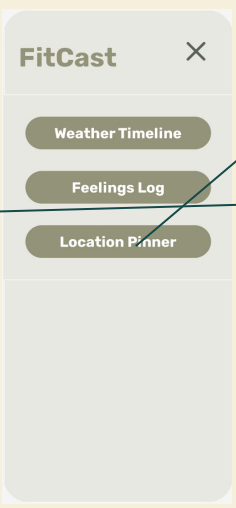
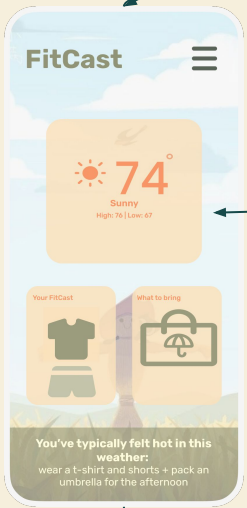


2 Moderate Task

User wants to update preferences to better prepare for indoor temperatures

*pops up immediately upon app opening

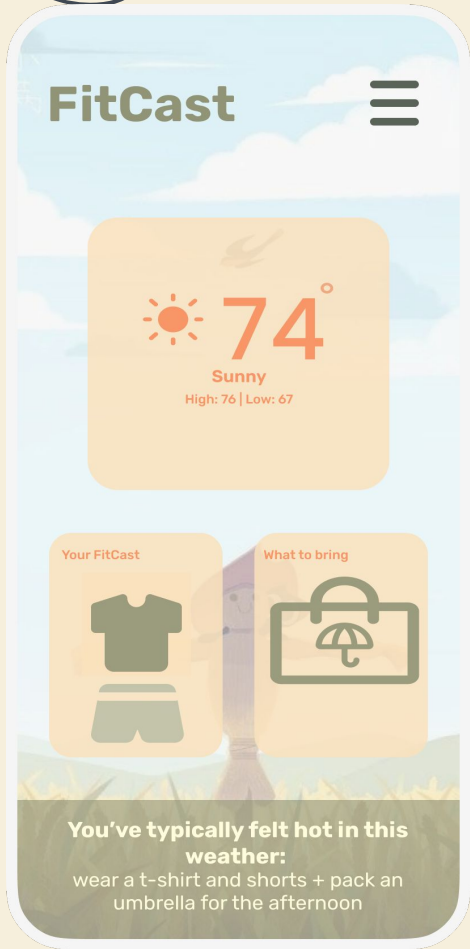
Also accessible from side menu



All x's return back to home

When location changes, the location pinner auto pops up

Dependent on whether the user is indoors or outdoors



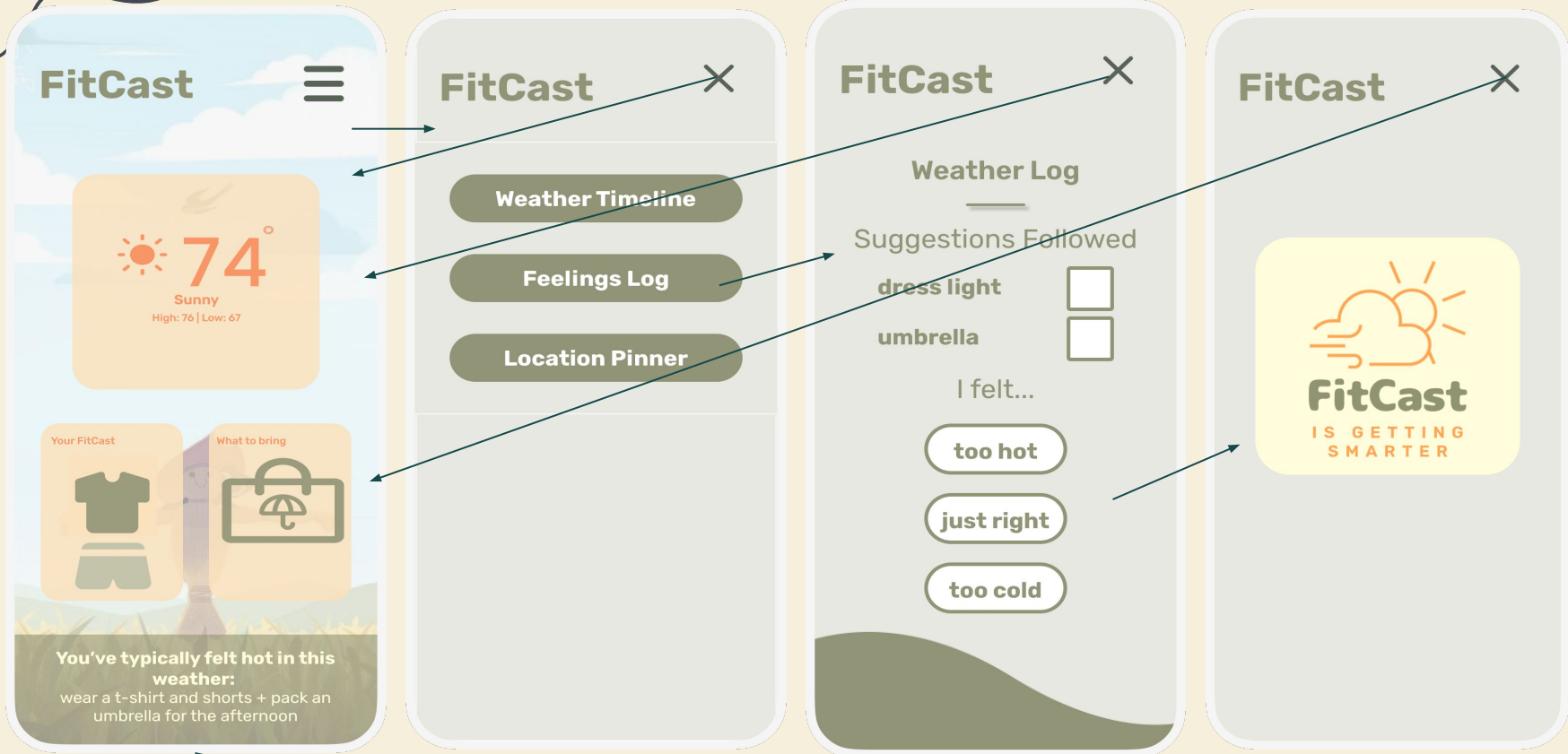
#3 Complex Task

User is trying to adapt their clothing wearing habits more closely to their personal temperature preferences

Note that we plan for most of this to be done using a wearable device alongside the voluntary input from the user

*pops up immediately upon app opening, also accessible from side menu

All x's return to home



Auto pops up upon opening app after 9pm



Implementation

Tools: Figma!

Pros

- Helps us visualize the task flows very easily
- Has many of the core functionalities we rely on (ex. Pop ups, selection checkboxes)
- Helped us to refine our plans/goals in terms of UI

Cons

- Hides some of our core functionality
 - Notifications
 - Different visual elements and suggestions that we intend to change based on the weather changing
- Cannot effectively differentiate between all the different ways to enter the app (first download, clicking notification, just opening the app, etc)
- Lots of things have to be hardcoded

Limitations

- Updating profile/general initial preferences
 - Currently most functionality is hard coded, so allowing the user to input/update their preferences on this prototype would make the hard coded information mismatch what is shown
- Notifications
 - We intend to send scheduled notifications which remind the user to fill out the log/pin locations
 - Since figma has no information about time/location, coding the notification panel wouldn't add much to our prototype
- Settings/Help/other side pages
 - Didn't feel they were currently necessary to showcase our task flows

Hard Coded + Wizard of Oz Features

User Info + Weather Preferences

- Initial survey → hard coded so that the rest of the hard coding makes sense
- Clothing suggestions → the text and the icons
- Login information → username and passwords hard coded

Live Weather Information

- Current time
- Current location
- Weather → temperature and precipitation

Wizard of Oz: Simulates AI capabilities that translate user preferences into clothing suggestions.

Wizard of Oz: Simulates specific weather conditions in a hard-coded area, as well as all weather statistics.

The image features a light beige background with abstract shapes: a dark blue shape in the top-left corner, a thin black wavy line in the top-right, and a teal shape in the bottom-right. A central teal rounded rectangle contains the word "Appendix" in a bold, dark blue font.

Appendix

Links

- FitCast Website: <https://web.stanford.edu/class/cs147/projects/UnintentionalGood/FitCast/>
- Prototype Link:
<https://www.figma.com/proto/9Y4JpAEXMhna7KcYu1pjqQ/Medium-Fi-Prototype?type=design&node-id=167-2288&t=IVKNPoZqyGqXM6Ky-1&scaling=scale-down&page-id=14%3A2&starting-point-node-id=177%3A2738&show-proto-sidebar=1&mode=design>