

A8: Hi-Fi Prototype

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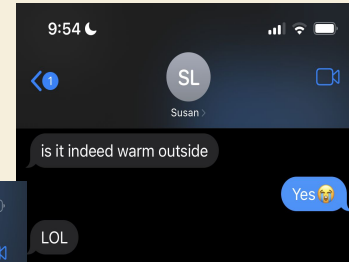
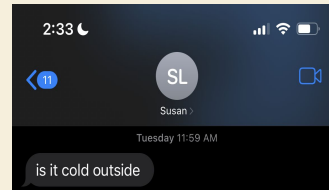
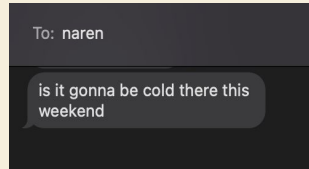
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Coterm
Computer Science
Sydney, Australia

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:

Smart interpretation of weather forecasts to relieve clothing decision fatigue

Heuristic Evaluation Results

01

Revisions for Hifi

02

HIFI Implementation

03

Demo of a Task

04



**Heuristic Eval.
Results**

01



High Level Summary

- We went through all 65 of the heuristic violations, focusing on the sev 3 and 4 heuristics
- In total, **6 main categories of changes to be made**
- We also separated out violations into 4 tasks (simple, moderate, complex + the login/onboarding task)

Quantitative Summary

Category	# Viol. (sev 1)	# Viol. (sev 2)	# Viol. (sev 3)	# Viol. (sev 4)	# Viol. (total)
H1: Visibility of Status	1	4	1	0	6
H2: Match Sys & World	1	8	3	0	12
H3: User Control	0	1	1	0	2
H4: Consistency & Standards	8	4	2	0	14
H5: Error Prevention	0	0	1	2	3
H6: Recognition not Recall	0	2	3	0	5
H7: Efficiency of Use	0	2	0	0	2
H8: Minimalist Design	12	2	1	0	15
H9: Help Users with Errors	0	0	0	0	0
H10: Help & Documentation	1	0	0	0	1
H11: Accessible	2	2	0	0	4
H12: Value Alignment & Inclusion	0	1	0	0	1
Total Violations by Severity	25	26	12	2	65

Qualitative Summary

1) General Functionality

- Navigation is confusing
- Need to ensure X's and back buttons are consistent
- Buttons unclear
- Names of "Location Pinner" and "Feelings Log" not helpful

2) Onboarding

- Should not be able to exit onboarding survey
- Unable to go back on questions in the onboarding survey
- Make screens look more FitCast Specific

3) Location Pinner

- Pinned locations don't seem to be stored anywhere
- Navigation is clunky and interface is repetitive
- One page is titled "Wearing" while another is titled "I am feeling"

4) General Aesthetics

- Buttons aren't clear
- Background is not consistent + widget opacity hard to read
- Misalignment across the board
- Colours aren't working well together

5) Weather Timeline

- Language is inconsistent (user/weather dependent)
- Icons inconsistent
- Need to cover more hours ahead of time (we decided only to cover times that call for changes in clothing)

6) Weather Log

- Colors are not indicative of whether or not someone has followed a suggestion
- No culturally diverse clothing icons
- Indicate that the log was already filled out/give option to update it

High Severity Violations

H5: Error Prevention [4]

- Pages in the location pinning flow don't have back buttons
- Users might make mistakes while filling it out

H6; Recognition, not recall [3]

- User has to remember their recommendations for each hour of the day
- Provide a clothing timeline

H4: Consistency & Standards [3]

- Location Pinner title is unclear and should change to something more function specific

H5: Error Prevention [4]

- Users can proceed to "how I was feeling" in log without selecting any clothes
- Need to select at least one option before proceeding

H2: System and World [3]

- Clothing suggestion widget takes you to weather timeline instead of explaining why clothing suggestions were made

H2: System and World [3]

- Weather timeline needs to be more comprehensive (next 24 hours at least)
- Most people dress for the next 8 hours not 4 hours

More High Severity Violations

H2: World/System Match [3]

- Clicking on any of the boxes on the homescreen all take you to the same thing
- Confusing and frustrating for the user

H3: User Control/Freedom [3]

- There is no option to sign up for the app, if a user doesn't have an account
- Need to sign up + add preferences

H8; Aesthetic Design [3]

- Outfit recommendation text is too small with light green translucent background
- Make it easier to read

H2: World/System Match [3]

- Room number field is mandatory to fill out in location pinner
- Not all buildings have room numbers, or people don't know the number

H5: Error Prevention [3]

- None of pages in the location pinning flow have a back button to correct any errors made in info entry



**UI/Product
Revisions**

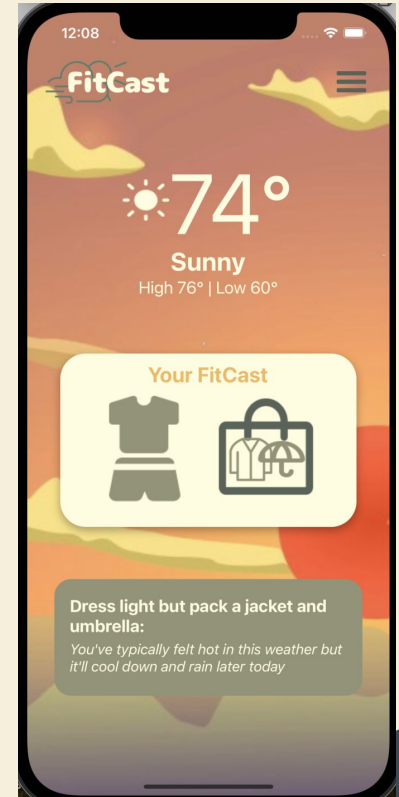
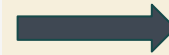
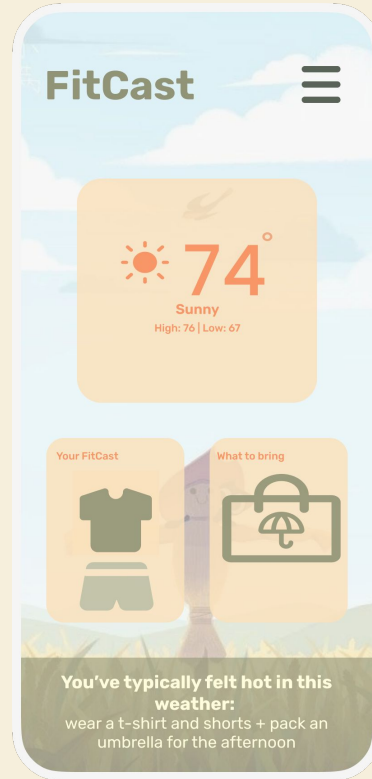
02



Home Screen Changes

Home Screen

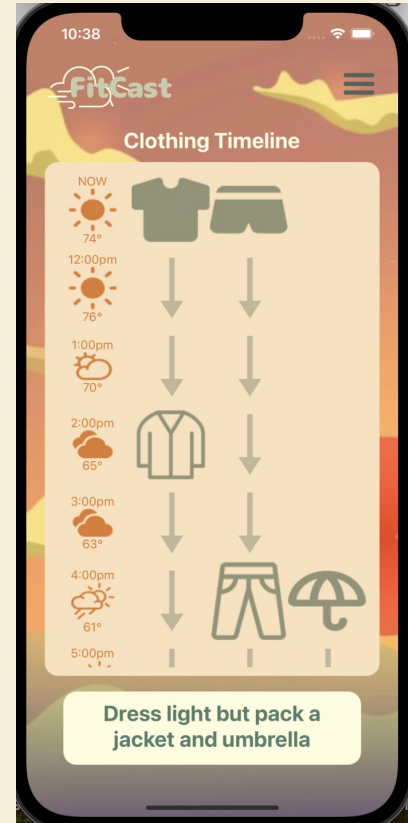
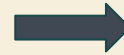
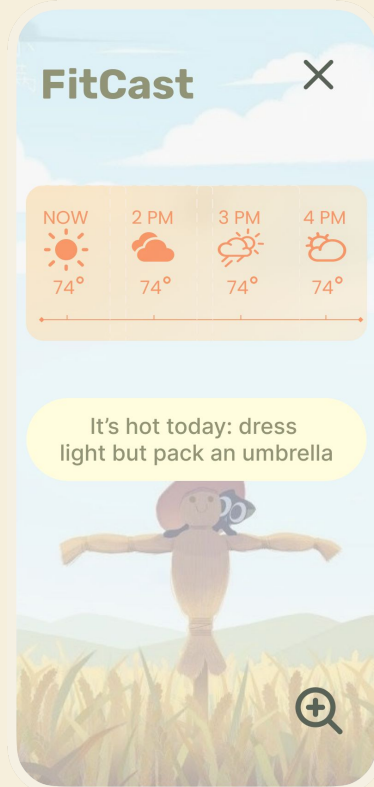
- Background changes based on time and weather
- Changed colours and opacity
 - Made components easier to read, received HE feedback here
- Updated logo
- Pathways simplified, only “Your Fitcast” takes you to the timeline
 - Reduces redundancy, followed HE feedback
- Non clickable components are no longer widget looking
 - Ensures users know where they can click



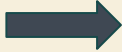
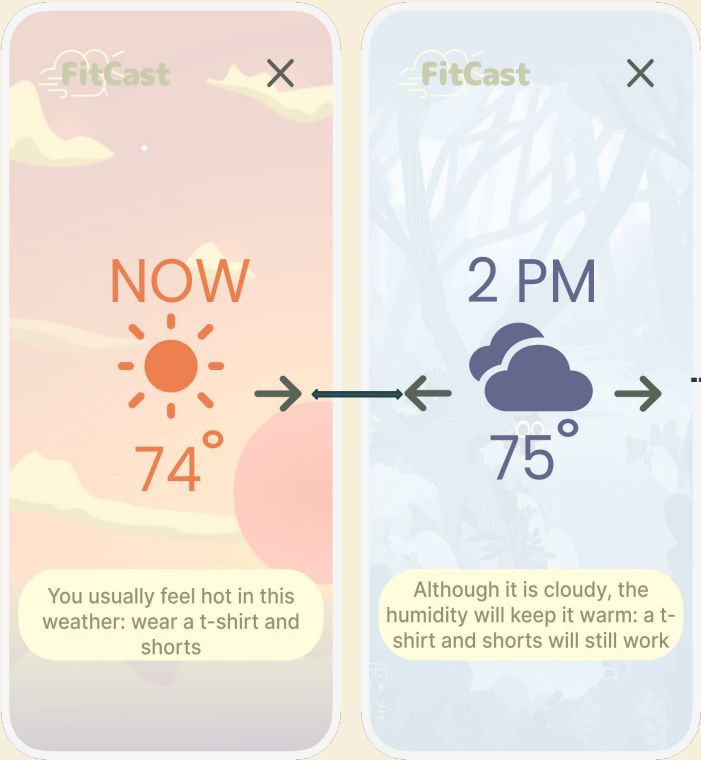
Weather Timeline Changes

Weather Timeline

- Only provides detailed info on weather when a user will need to adjust clothing
 - Reduces clutter, ensures users get the info they mainly need
- Emphasize AI functionality for determining a person's temperature profile
- Made the weather timeline more of a clothing timeline
 - Emphasizes the uniqueness of FitCast



Weather Timeline Changes



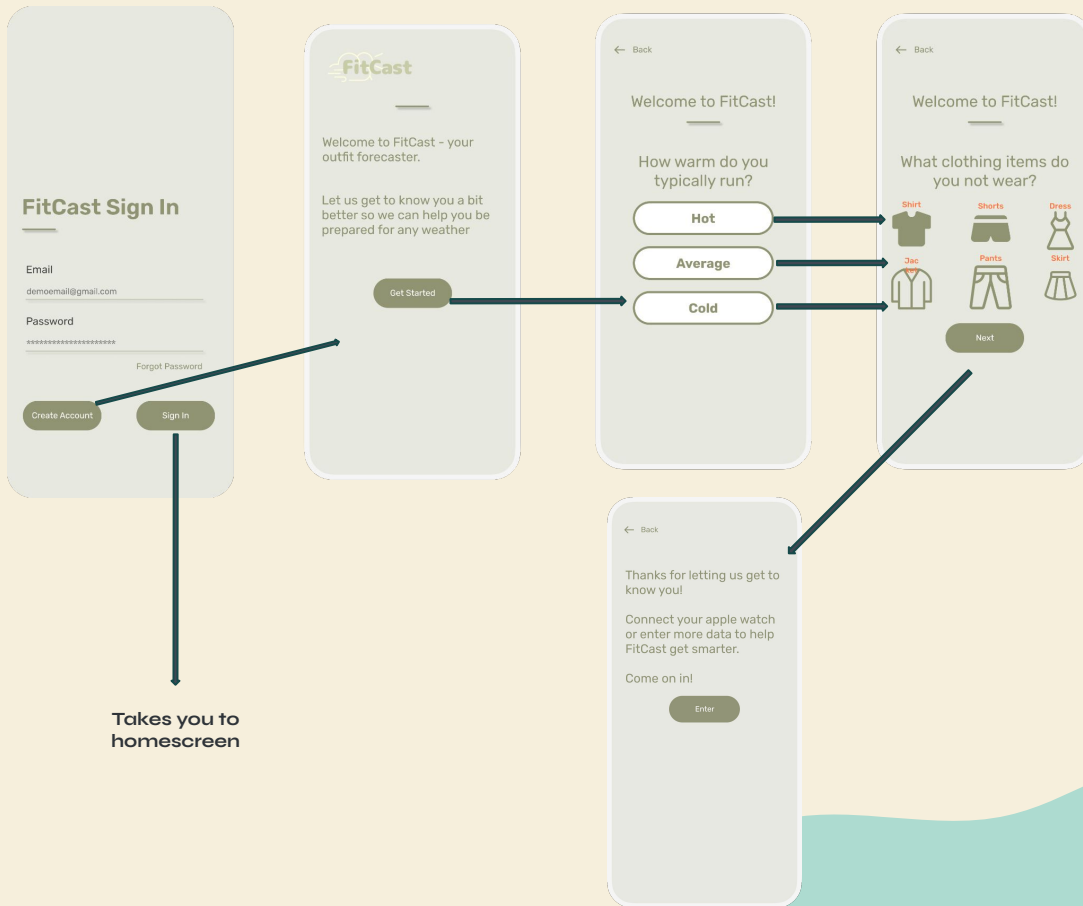
Onboarding Changes (med-fi)

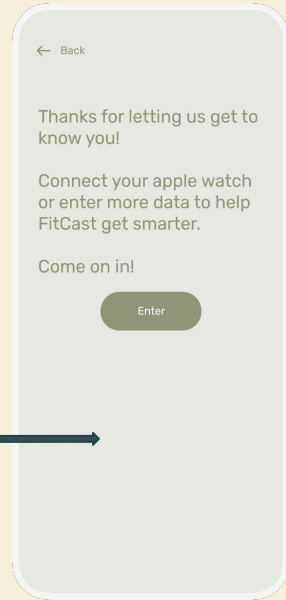
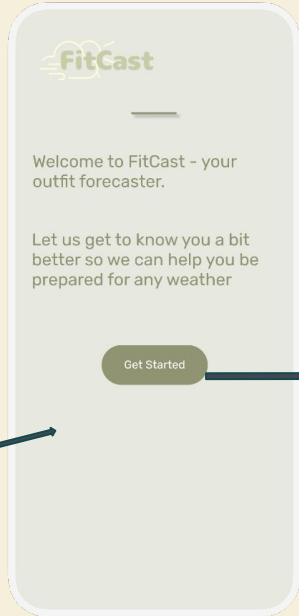
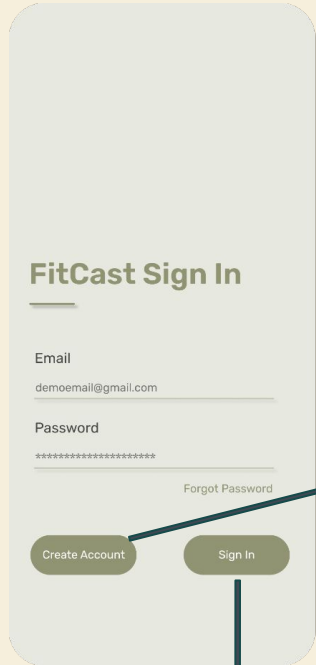
Onboarding

- Added a create account page
 - Feedback from HE
- Made screens more FitCast specific, colors now align with Fitcast scheme
- Add more questions about user preferences
- Be able to go back on questions in onboarding survey
 - Feedback from HE
- Use “next instead of enter”

Further Changes

- Fix alignment and font type + put description in boxes
- Add more clothing items that may be more culturally specific in initial survey





Takes you to
homescreen

More UI Changes (Based on HE)

Weather Log

- Make sure “fitcast is getting smarter disappears after a couple of seconds
- Indicate if the log was already filled or give option to update it
- Match suggestions followed on log match to actual suggestions on that day
- Selection circles are same colour as page clothing icons, change the colors
- Add cultural garments to the clothing icons

Save Location Preferences

- Change name of pinner
- Store pinned locations and allow users to reuse/update existing pinned locations
- Make sure “fitcast is getting smarter” disappears after a few seconds
- Use text box for additional info instead of specifics e.g. room number?
- Remove navigational errors
- Remove map from pages after the first page
- Back buttons on location pinning flow

General Functionality

- Ensure X's go to previous page if it was just one e.g. x on popup on home page brings back to home page
- Name location pinner and feelings log not very intuitive

Aesthetics

- Uppercase the buttons
- Make sure buttons are same style and same size from page to page
- Ensure clothing items are same opacity
- Background pictures need to be more consistent
- Alignment



**Prototype
Checkpoint**

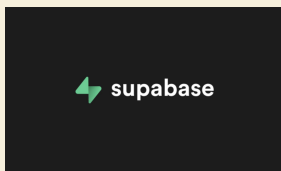
03



Components

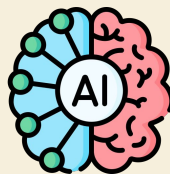
Tools/Framework

- React Native, react navigation through expo router
- SupaBase
- Data fetching using a Weather data API



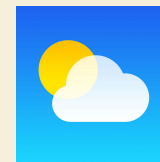
Wizard of Oz Items

- Aggregated data back-end
- Data collection from apple watch
- Fitcast machine learning mechanisms



Hard-Coded Aspects

- Suggestions for clothes and determination of weather feel
- Adaptive background to weather and location
- Current time and weather



HIFI TASK [Simple]

SIMPLE TASK

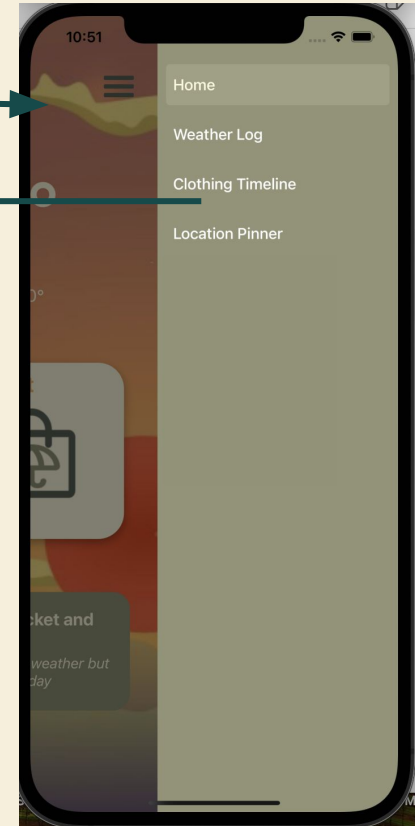
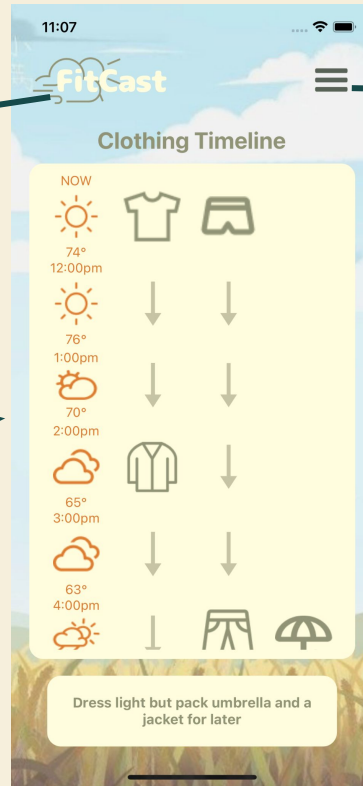
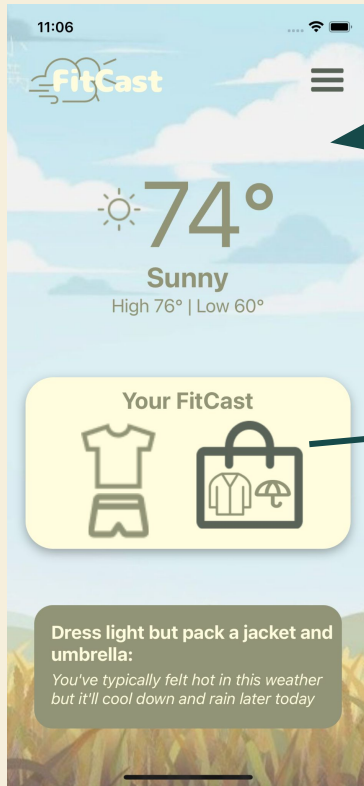
User is deciding what to wear based on the weather

[x] *Homescreen*

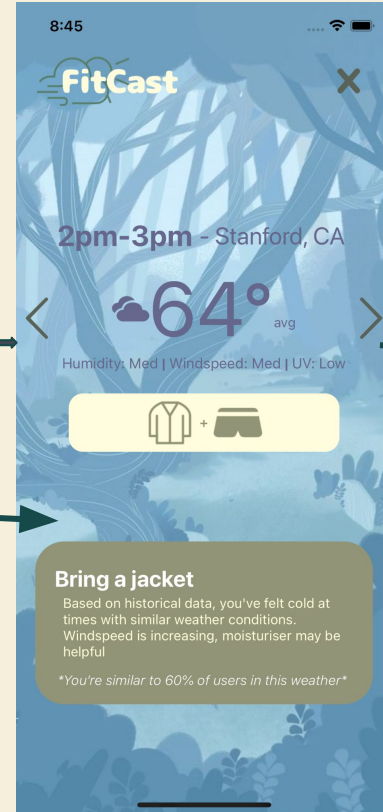
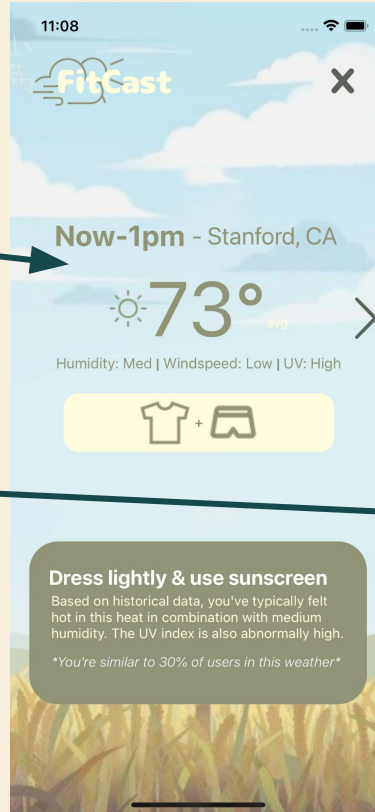
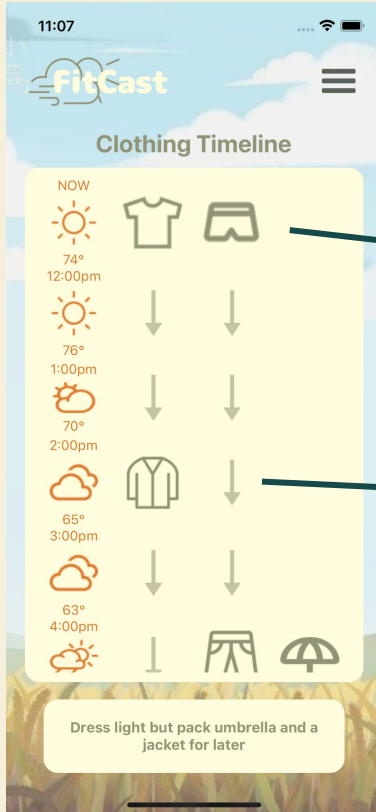
[x] *Clothing Timeline*

[x] *Smart Suggestion Explanation*

Getting to the Clothing Timeline



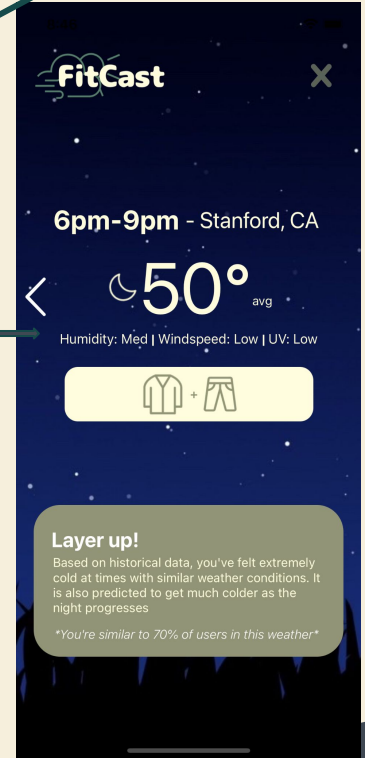
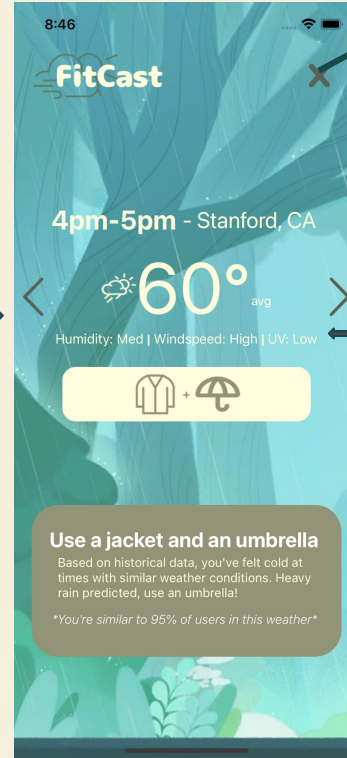
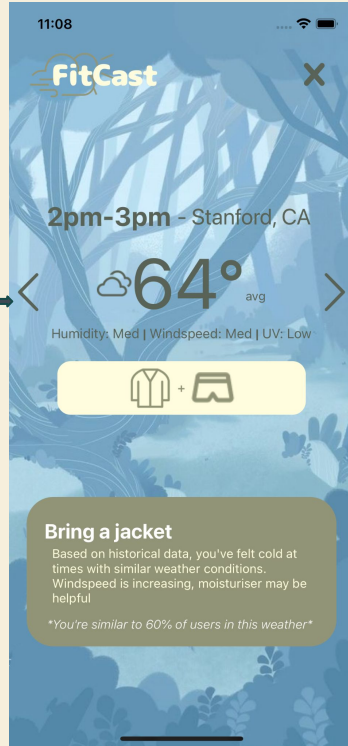
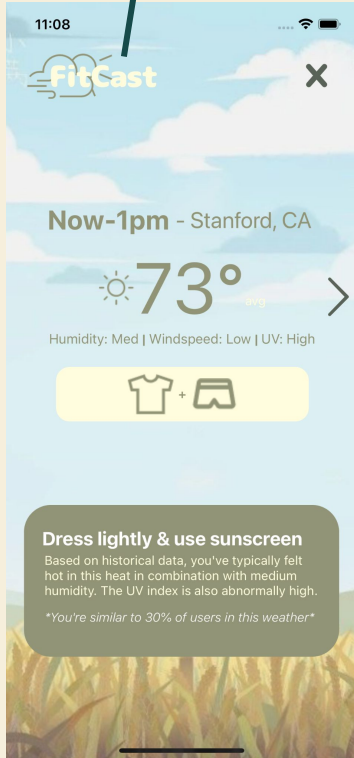
Timeline -> Smart Suggestions



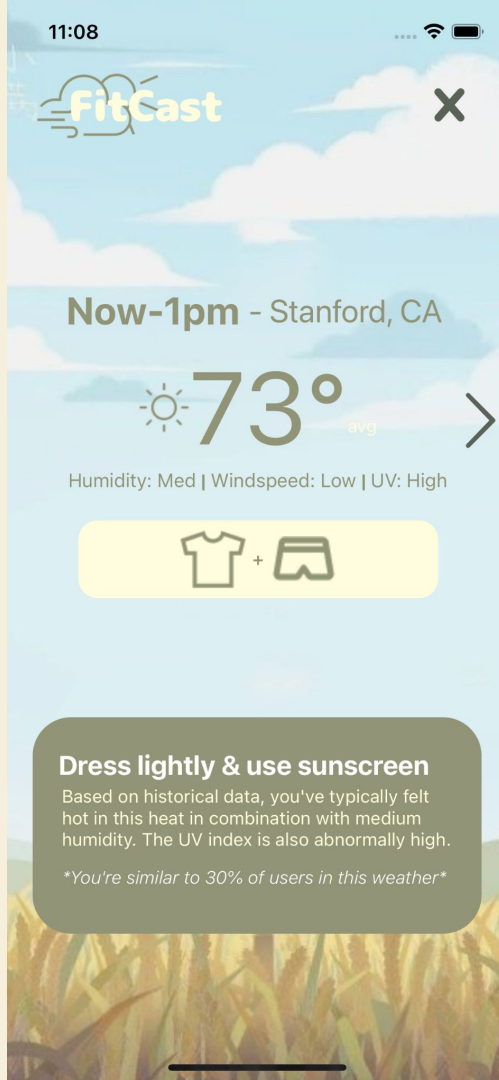
Back to Home
Screen (all)

Smart Suggestions Navigation

Back to Clothing
Timeline (all)



Smart Suggestion Layout



Key Features

- Describes average temperature, among other metrics in simplistic terms
- Has clothing suggestions tied to weather
- Reminder of suggestions included
- Explanation of smart suggestion for this particular weather condition in the day
- Will eventually be able to tap on green box, which will take you to your temperature profile and insights

Further Adjustments Required

Further Adjustments

- Background consistency, make sure all follow the same theme (perhaps use AI to generate similar theme but different weather)
 - Animate the background if we have time
- Maybe change some colors if we find better ones
- Ensure alignment of everything
- Make Clothing timeline more minimalist to ensure that it is less cluttered and confusing for the user
- AI temperature profile screen and user population comparisons
- Figure out how to gather weather API data and feed it to our code → this is our main issue and question moving forward!



PROGRESS/PLANS TO FINISH



TASK 1 - User is deciding what to wear based on the weather

TASK 2 - User wants to know if/how they should prepare for indoor temperatures

TASK 3 - User is trying to adapt their clothing suggestions to their personal temperature preferences



Login - User is creating an account and writes in initial

Aesthetic Changes - Ensure colors are consistent, things are aligned and things are easy to read

Temperature Profile - User weather feel and clothing profile, with comparisons with rest of user base

Will spend most of next weekend implementing new features and also correcting certain aesth. Issues



HIFI Demo

04




Demo Video





Appendix

05



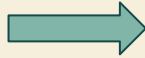
Usability Goals Progress (specific to Hifi implementation)

Usability goals

Minimize number of mistakes

Maximize repeat users

Make the app a pleasing experience



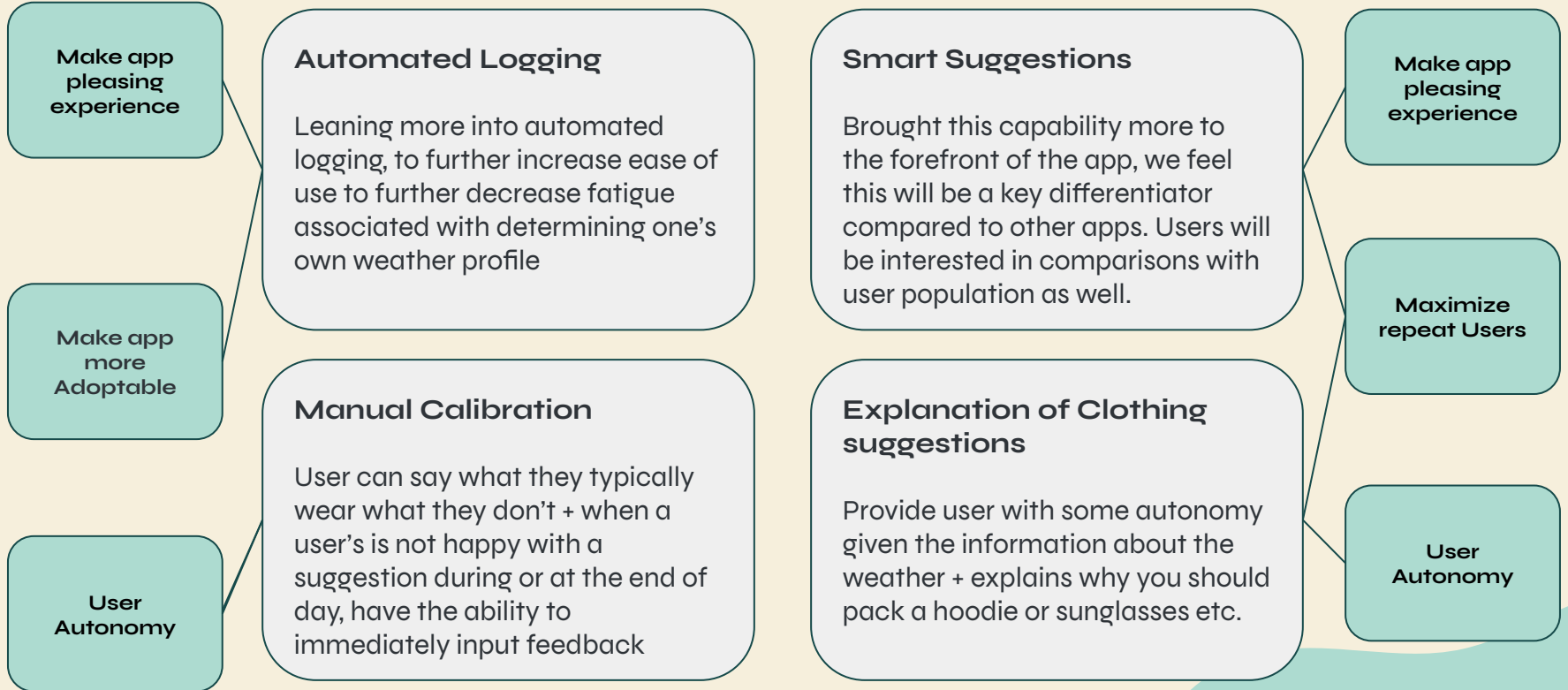
Hifi Progress

Home screen is much more comprehensive now. The weather description is clearly not a pressable since its just plain text. The focus is on the “Your FitCast” widget, which looks clickable since it pops out at the user.

App does not look like a traditional weather app, and it is very clear at first glance that there is some additional use. Users that *need* this app will see that there is a reason to stay, and we believe most people need it!

The home screen and timeline look cute!!! They also don't force the user to dig through things if they don't need it.

Usability Key Components



Sev 3s: Addressed in Hi-fi

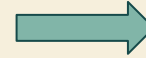
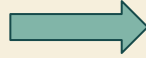
*see previous slides and/or demo for outcome

- Clicking any of the boxes on the main page- the temperature forecast, the “Your Fitcast” and the “What to bring”- all bring you to the temperature timeline
- Timeline only depicts the next four hours
- Users cannot see their FitCast for multiple hours at the same time. In the timeline, they can only see one hour at a time and would have to remember or go back to previous hours.
- The outfit recommendation is at small text at the bottom of the screen in written in light green with a semi-translucent background
- We have restructured our home screen so that only the “Your Fitcast” brings you to the temperature timeline
- Timeline depicts the next several hours, scrollable!
- Users can now see their FitCast for every hour for the next several hours!!
- Changed the color scheme to be easier to view!

Sev 3s: Addressed in Hi-fi

*see previous slides and/or demo for outcome

- Clicking any of the boxes on the main page- the temperature forecast, the “Your Fitcast” and the “What to bring”- all bring you to the temperature timeline
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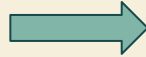
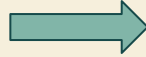


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- Changed the color scheme to be easier to view!

Sev 3s: Addressed in revised Med-fi

*see new [figma](#) for outcome

- The “FitCast is getting smarter” page from the weather log and location pinner needs to be exited out of
- There is no option to sign up for the app if a user doesn't have an account.
- Room number field is mandatory to fill out
- The “Suggestions Followed” doesn't give options that directly correspond with the suggestions given for what to wear.
- None of the pages in the location pinning flow that come after a page where you enter information have a back button



- Fixed in our updated medfi, plan to implement in code
- Added option to sign up for app if user doesn't have account
- Will not make room number mandatory, will also make it more general of a field
- Accidental wording issue, have now matched the suggestions up
- Back buttons have been added!

FitCast Sign In

Email

demoemail@gmail.com

Password

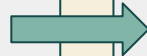
[Forgot Password](#)

[Create Account](#)

[Sign In](#)

Sev 3s: To be addressed in Hifi

- When users see a button labeled “Location Pinner,” they may not know what it refers to without a visual aid. / When users see a button labeled “Feelings Log,” they may not know what it refers to without a visual aid.
- Typically, “pinning” a location would mean that you are saving it on a map to be able to view it later — this is not what it does on FitCast.



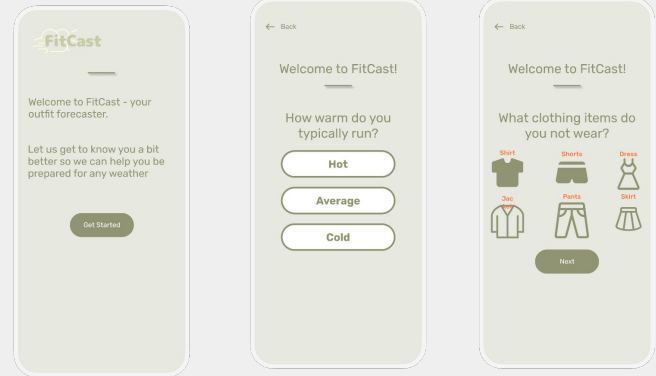
- Will add a visual aid, also dont plan to rely too much on users knowing what the labels mean since we will have pop ups
- Super good point, and we plan to implement this in the hifi!

Sev 4s: To be addressed in Hifi

- Users can exit the onboarding flow by clicking the logo or the “X” at the top right of the screen

- Users can proceed to the “How I was feeling” without selecting any clothes that they were wearing

- Exit option removed from Med-fi, will be addressed in Hifi



- Proper error checking will be added to the Hifi prototype

Links

- Updated medfi:

<https://www.figma.com/proto/9Y4JpAEXMhna7KcYu1pjqQ/Medium-Fi-Prototype?type=design&node-id=534-2689&t=yghaKhtLfXJuf6JZ-1&scaling=scale-down&page-id=529%3A774&starting-point-node-id=534%3A2689&show-proto-sidebar=1&mode=design>