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final project

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PROBLEMSCOPE

- Outfit planning is **time-consuming**, especially with unpredictable weather
- People **forget what they own** due to disorganized wardrobes
- Current apps lack integration between outfit planning and actual clothing storage
- There's a disconnect between digital outfit selection and physical wardrobes

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6 Interviews

34 Response Survey

PRIMARY RESEARCH

Understand user **pain points** and **motivations**

Key Insights

- Common struggles: decision fatigue, “nothing to wear,” and lack of styling help
- Weather, mood, and self-expression heavily influence outfit choices
- Users want a simple, smart system to help them dress better and feel more confident

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Comparative analysis of current wardrobe apps

SECONDARY RESEARCH

Identify helpful/weak features

Explore technology behind **mirror projection** and **Bluetooth connection devices**

Key Insights

- AI would need data like color combinations, item types, materials, usage history, seasonality, style tags, style preferences, etc.
- AI with ML would be the most effective. Feed fashion rules, and pre-labelled style data sets.
- A two way mirror (mirror over display for best results)

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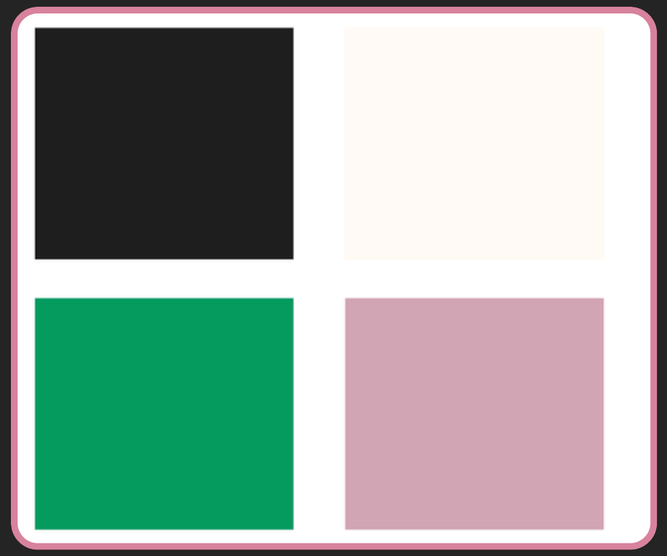
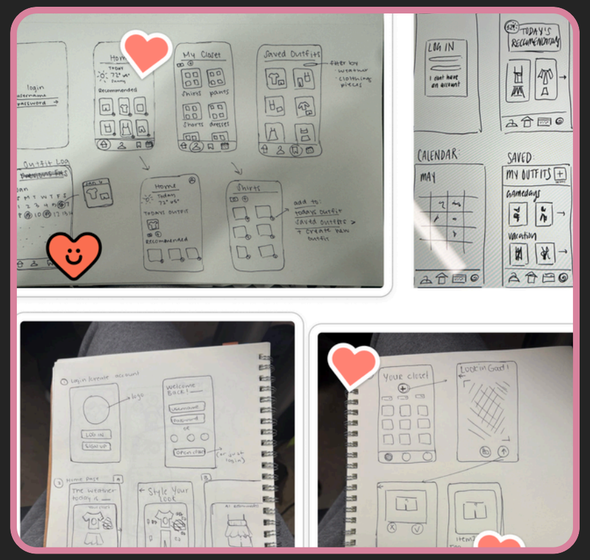
DESIGN PROCESS





SKETCHING

Brainstormed through a quick sketching session and voted on our favorite designs at the end.

DESIGN SYSTEM

Looked through different UI styles and color pallets to make a consensus on branding and design.

WIREFRAMING

As a team put together our sketches and design system to create our final design prototype with full interaction.

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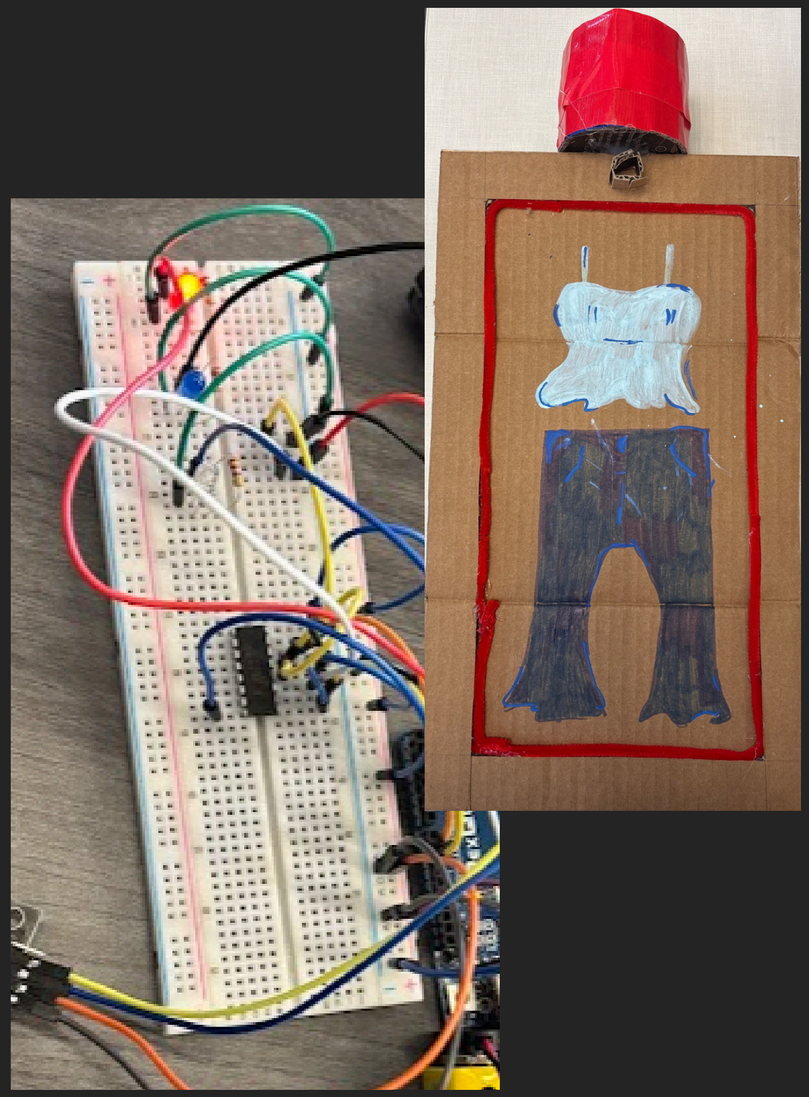
MIRROR COMPONENTS

- A small hub on top of the mirror with light, camera and AR toolkit
- The hub on top of the mirror will also host the Bluetooth device and collect data from the app.
- A semi-transparent mirror placed over an digital display for projection
- A manual switch to turn on and off

PROTOTYPING (LIGHT)

- Integrated a physical component using an **Arduino** circuit
- LED light changes color based on real-time temperature:
  Red = Warm | White = Mild | Blue = Cold
- Used with a Wi-Fi shield or an ESP8266 microcontroller
- Connects app recommendations with real-world feedback



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THE APP

Features:

- Home Page - shows **current weather, suggests outfits**, and most-worn pieces
- My Closet - **displays all clothing** filtered by category
- Outfit Planner - **schedule outfits** for specific dates and upcoming events

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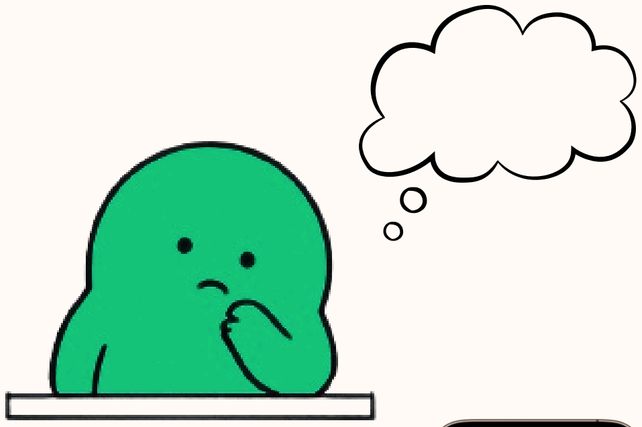
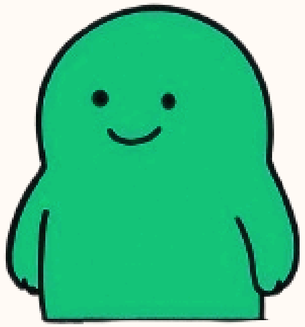
FINAL EXPERIENCE



I WISH I HAD A CUTE OUTFIT

LETS SEE HOW THAT LOOKS :)

WOAH I LOOK GREAT!



LETS LOOK AT MY RECOMMENDATION FOR THE DAY

HMM I THINK IM GOING TO TWEAK MY OUTFIT

MIRA. THE PERFECT OUTFIT MADE JUST FOR YOU

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REFLECTION

Worked well:

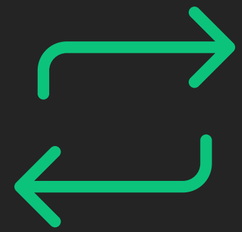
- Collaborating-sketching and wire framing
- User research-guided design decisions

Didn’t work as well:

- Initial design ideas too broad—narrowing our scope took time
- Tech limitations-mirror projection

Changes:

- Prototype earlier
- Refine hardware component sooner
- Follow-up interviews



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NEXT STEPS

User Testing

Mirror Projection

Database for Users

Launch App

THANK YOU SO MUCH!