CEE 176G/276G SUSTAINABILITY DESIGN THINKING SPEC SHEET
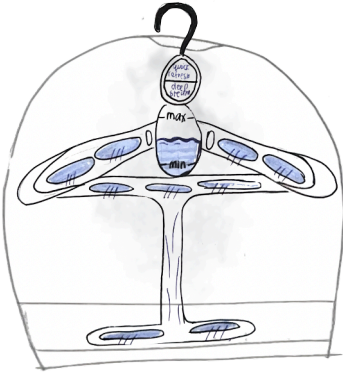
pristeam

Designer Name: Rawda Aljneibi
Design Date (Monday July 22, 2024)

CONCEPT STATEMENT: Pristeam is a smart hanger that simplifies garment care. Using advanced steaming technology, it refreshes and de-wrinkles shirts effortlessly. Compact, eco-friendly, and easy to use, Pristeam fits seamlessly into any closet. Each purchase donates $1 to a sustainability charity. Seeking $100,000, Pristeam aims to revolutionize shirt care with convenience and efficiency.

MVP FEATURES
- Advanced steaming technology
- Compact and eco-friendly design
- Easy-to-use controls

MVP+ FEATURES (<10 words each)
- Clear plastic steaming attachment
- Foldable bottom attachment for even steaming
- LED indicators for readiness

PROBLEM STATEMENT: Busy individuals, especially college students, struggle with maintaining wrinkle-free clothes due to a lack of time and efficient solutions, leading to frustration and wasted time.

COMPOSITE CHARACTER PROFILE: Emma is a college student who juggles classes, assignments, and a part-time job. She often finds her clothes wrinkled and damp after washing, with no time to iron. She needs a quick, effective solution to keep her shirts presentable without extra effort.

POV STATEMENT: Emma, a busy college student, needs an easy and quick way to refresh her clothes because she doesn't have time to iron, and wrinkled clothes affect her confidence and appearance.
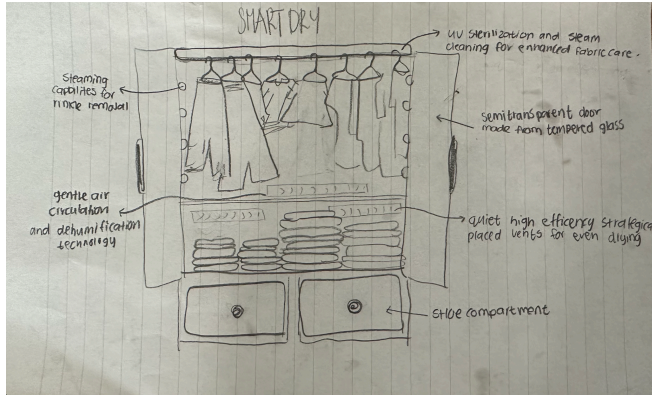
1st design: Realized it's too expensive and needed something easier, lighter, and that does the same thing.
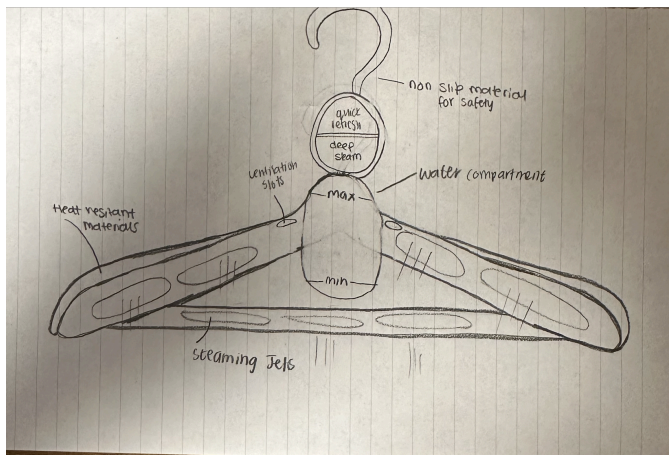
2nd design: Created a hanger that does all the same things as the cabinet but is compact and easier for my target audience.
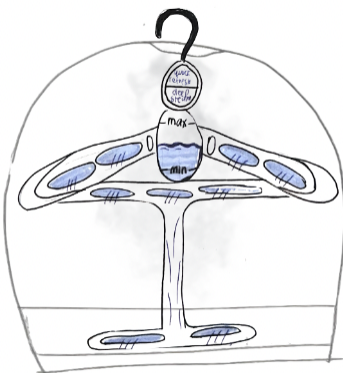
3rd design: Based on user feedback, added an attachment at the bottom for even steaming and included a clear plastic cover for thorough steaming.

DESIGN THINKING SELF-REFLECTION

I initially started the project with a cabinet in mind because, as a summer college student, I found laundry to be the most challenging and time-consuming task. Doing laundry, waiting for it to dry, making several trips to ensure the clothes were evenly dry, and then steaming them afterward was very time-intensive. I thought the cabinet would solve these issues. However, after discussing the idea with Professor Glenn, he pointed out that it might be too expensive for most people. This feedback made me realize the need for a more compact and accessible solution.

This led me to the idea of a hanger that steams clothes—easy, compact, and eco-friendly. After an in-class exercise where we sought advice from other students, I refined my second idea. One student asked, "Will my clothes be evenly steamed even from the bottom?" This feedback inspired me to add an attachment for even steaming.

When I discussed the idea with my dad, he asked, "Will the steam escape and be less efficient?" This led me to the idea of adding a clear plastic attachment to trap the steam. Despite developing multiple prototypes, advice from others and exchanging ideas with peers significantly improved my design. Their feedback helped refine the concept, leading to a more effective and user-friendly solution.

These iterations and user feedback shaped the final design: a steaming hanger with steaming jets on the bottom and upper half, a clear plastic cover, and different steaming options.