

DP4, Team 10

Elise Schwarz, schwae1

Madelyn Hogan, hoganm5

Sam Milicia, milicias

Faisal Khaleel, khaleef

Milestone 1: Problem Definition

Need Statement

Ms. Liu needs a design solution that will make it easier and indelible to record her symptoms in order for her physicians to better understand the conditions she faces.

Customer Requirements

- *Objectives*
 - Appealing
 - Portable
 - Easy to use
 - Durable
 - Intuitive
 - Ergonomic
- *Constraints*
 - Inexpensive
 - Pain-free
 - Does not require fine motor movements
 - Lightweight
 - Powered
- *Functions*
 - Receives input
 - Records symptom data
 - Saves recorded data
 - Results are accessible by physicians
 - Provides a periodic reminder to input data

Engineering Specifications

- Personal opinion of appeal (scale of 1 to 10)
- Personal opinion of ergonomics (scale of 1 to 10)
- Dimensions (mm)
- Number of steps (numerical value)
- Force device can withstand (N)
- Cost (\$)
- Confirmation (Yes/No)
- Mass (g)
- Memory (Gb)