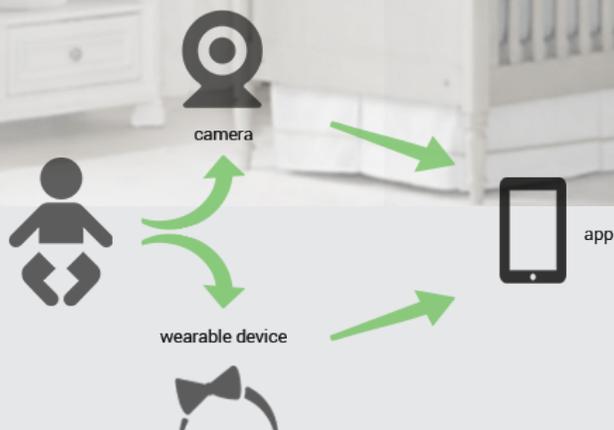
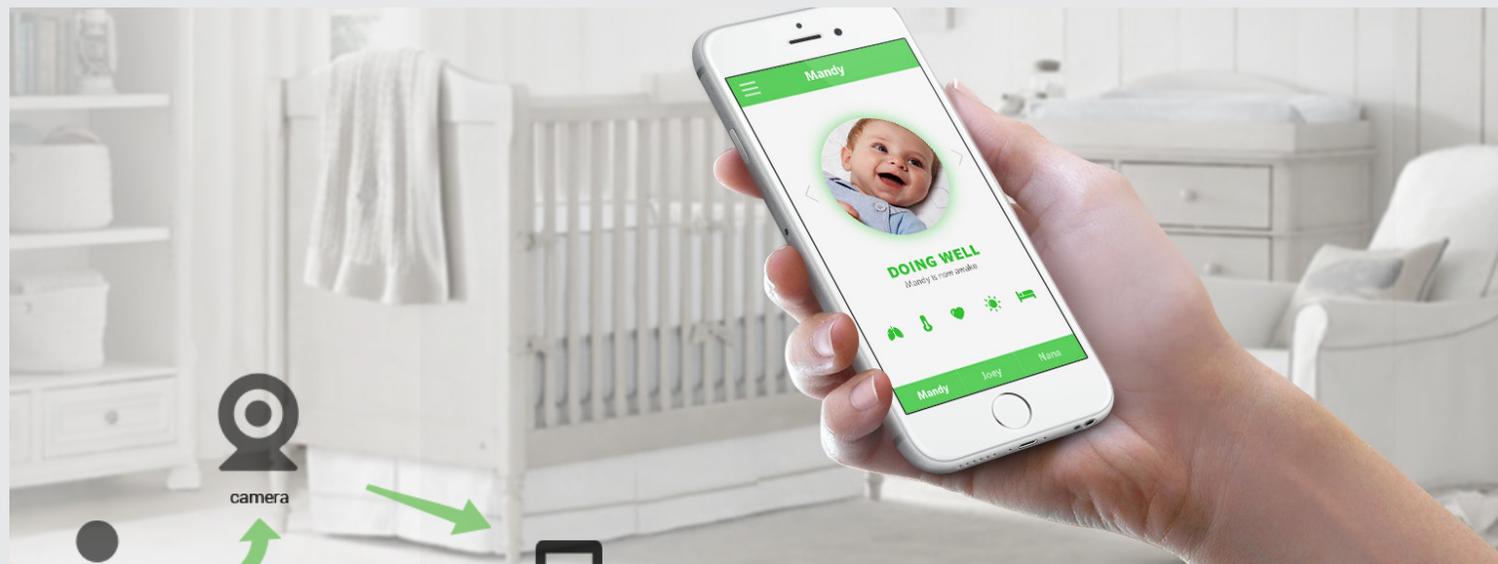


## Sleep Sync

XCEPTED TECHNOLOGIES WITH FUNDING FROM AN NSERC ENGAGE GRANT

January 2016 – December 2017



### THE PROJECT

Xcepted's current focus is to reconsider the traditional baby monitor to provide caregivers with information that would aid in their infant's safety and care, as well as assisting in the caregiver's management of the infant's daytime and nighttime sleep cycle. Xcepted is applying new technologies of brainwave monitoring to provide realtime data of current infant sleep cycles to caregivers so that they may sync their sleep patterns with the infant. Xcepted partnered with the Health Design Lab to collaborate on the research and design of three components of the baby monitor system: the camera, the wearable and the base station.

## THE OUTCOME

1.

**CAMERA** The design of the camera was created based on extensive research into user reviews of the many baby monitoring cameras currently on the market. This was a redesign which featured a better adaptable mounting system and a less obtrusive visual form and material choice.

2.

**WEARABLE** The head wearable was designed with priority towards ergonomics, comfort and ease of use. The size was made to be adjustable to compensate for the drastic changes in head size during a newborn's growth. Putting on the wearable was also designed to be intuitive and simple to minimize the interruption it has over the baby's sleep.

3.

**BASE STATION** The many features of the software were composed and organized based on priority and frequency of use. Complex data sets were then simplified and designed to be easily understandable by the average caregiver.

## THE PROCESS

In order to best understand how the Sleep Sync system can be integrated into a caregiver's life, we created personas with visual moodboards, and studied user scenarios. This allowed us to have a clear guideline on how the design of the system should look and function, based on their personalities and lifestyles.

Because the app will need to cover a wide range of features like camera feedback, sensor data, and alerts, a precise user flow was designed to organize everything into a map in order of priority. This ensures intuitiveness for new users and provides optimum clarity in the communication of information.

Simple wireframes were created in order to experiment and act out potential use scenarios. This enabled us to gain a deeper understanding of how viable a page's composition is and the best ways to improve them to be more intuitive.



### PERSONAS + USE CASES

Thorough explorations of potential users and use cases, an understanding of how the product will and will not be used was formed.



### DESIGN EXPLORATION

Discovering new potential for forms, materials, and features, through an iterative process of sketching, prototyping and user testing.



### WIREFRAME

Establishing clear information hierarchy within each page's composition in order to communicate complex insights in a clear and understandable way.