

# Smart Chronic Disease Medicine Casing

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# THE TEAM

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Ojas  
Sahasrabudhe



Manan  
Arora



Prateek  
Agrawal



Shivam  
Rastogi



# PROBLEM STATEMENT

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To help people who have chronic diseases  
monitor and track their medication

# USER PERSONA

## Prabha Kale

Age: 78 Years

Grandmother of Ojas

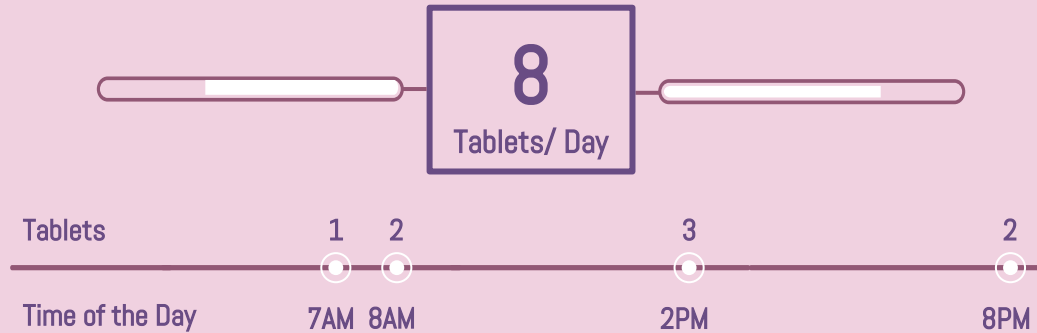
Volunteers at NGO

## Illnesses

Blood Cancer

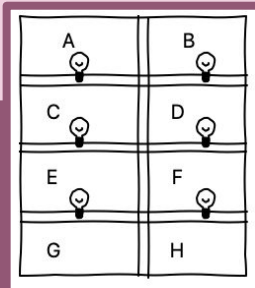
Blood Pressure

Arthritis



# FUNCTIONAL REQUIREMENTS

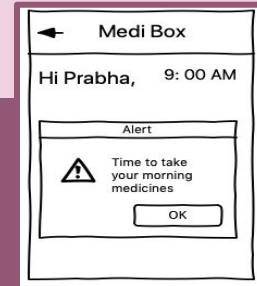
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## Configurable Box with Lights

Box can be configured with medicines distributed in different compartments

When user Opens the box, the light on the compartment for medicines which needs to be taken will light up



## Haptic + On Screen Reminders on Band

A very simple wearable band that only notifies the patient at the time the medicine is due.

The band does not offer any other functionality to the patient, to avoid any complexity

# NON FUNCTIONAL REQUIREMENTS

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01

Compact box design to make it easy to carry and durable material to make it long lasting. Dust and water repellant as well.

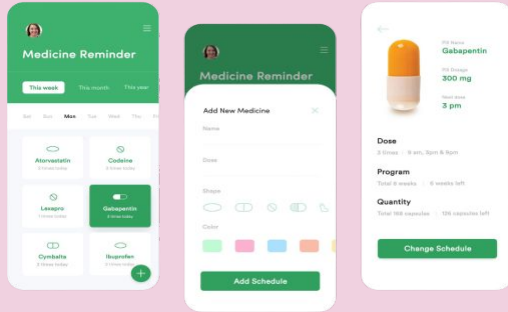
02

If the box gets misplaced, user can send an SOS to the box after which the box will start ringing and vibrating so that user can locate it.



# TECHNOLOGY FOR THE SYSTEM

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## MediAssist

App to be used by the guardian to configure the case and stock the medicine based on prescription.



## MediBox

Case to store the tablets and medicines. Uses LED lights to guide the patient to appropriate medicine



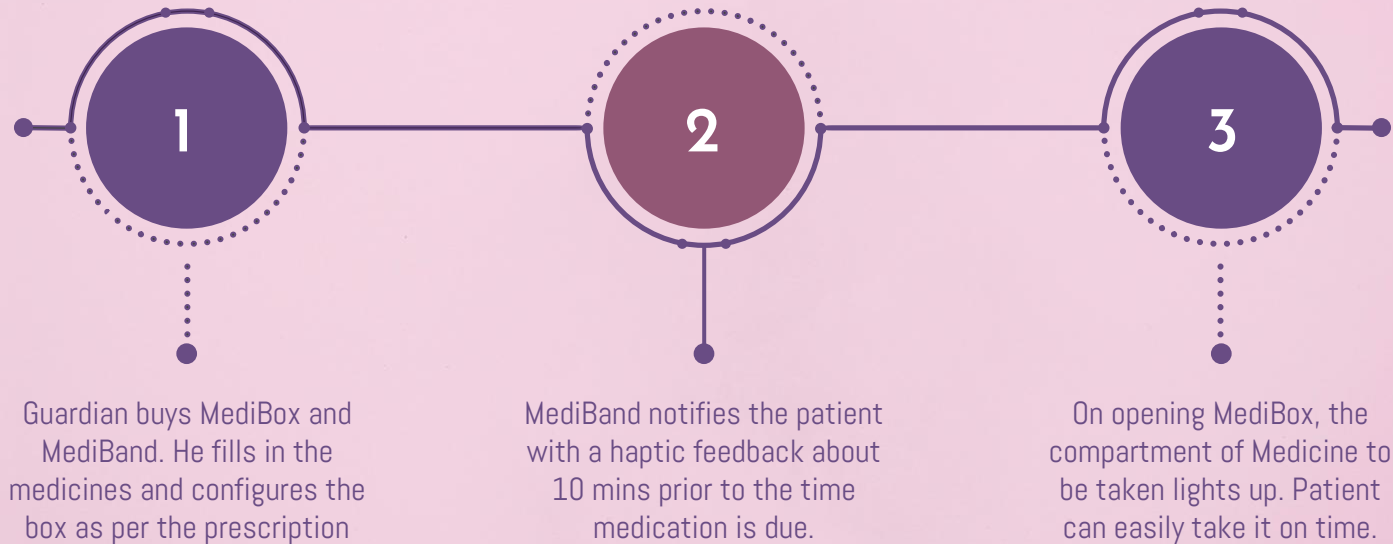
## MediBand

Smart band to be worn by the patient that nudges them to take the medicine at the right time



# SYSTEM DESIGN FLOW

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# DESIGN CONSIDERATIONS

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If the medicine isn't taken out of the MediBox 30 minutes past the scheduled time, the guardian is notified



The MediBand and MediBox are very minimal, designed to ensure that the patient has to deal with very simplistic interface.



When the medication put in the box is about to finish up, the guardian is notified through the support app.



# IN CLASS LEARNINGS

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1. An approach and importance of including disabled people in the systems that we develop
2. Better terminology to call people who have disabilities
3. The value of a process which takes into consideration what actions our intended user will take when interacting with our system.
4. The most important thing that we learned in this class is that the new systems that we design for our users should enable them to interface smoothly with the existing systems rather and not hinder their interaction with the existing systems

# THANKS

