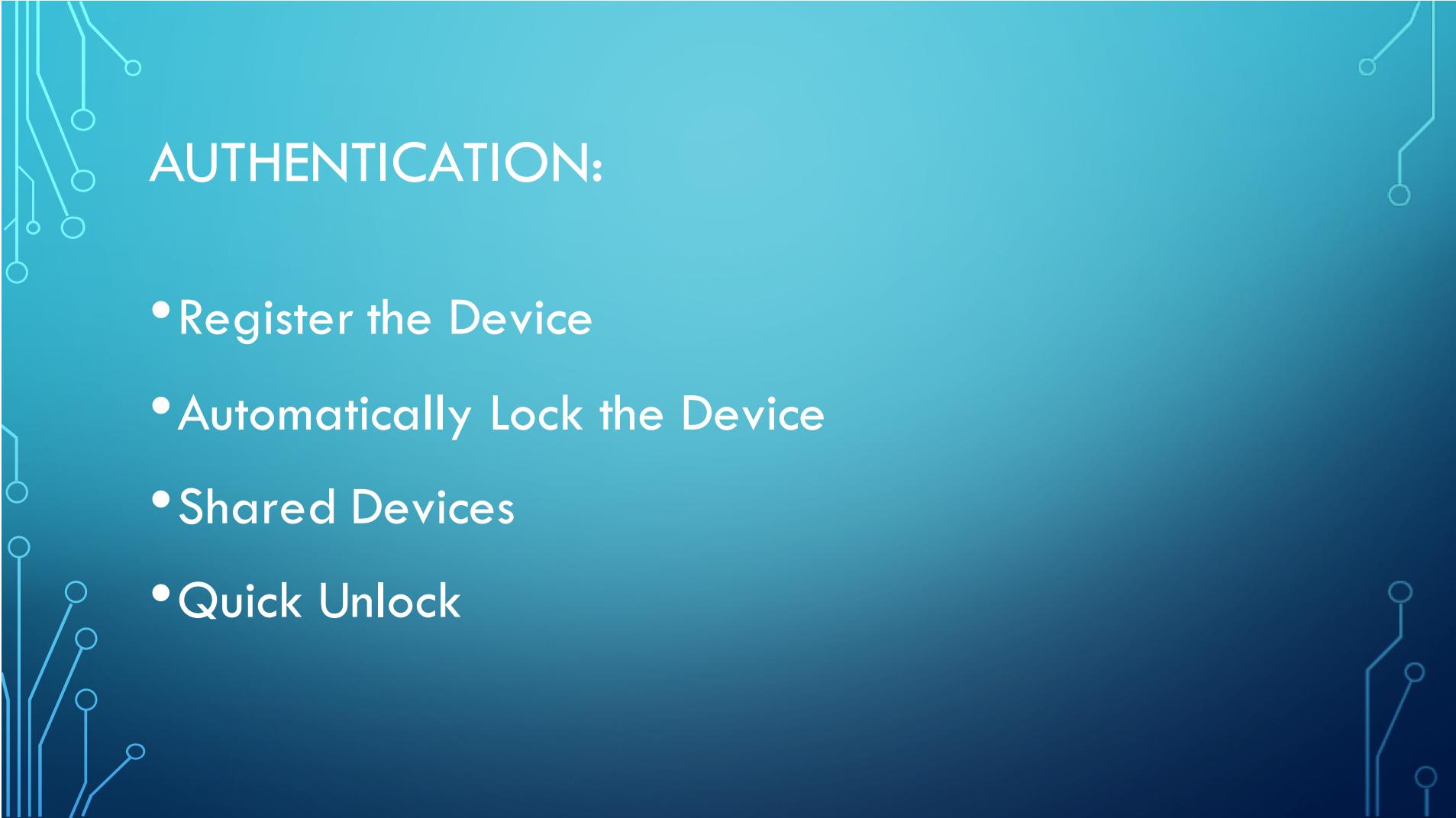




# PHASE III: AUTHENTICATION

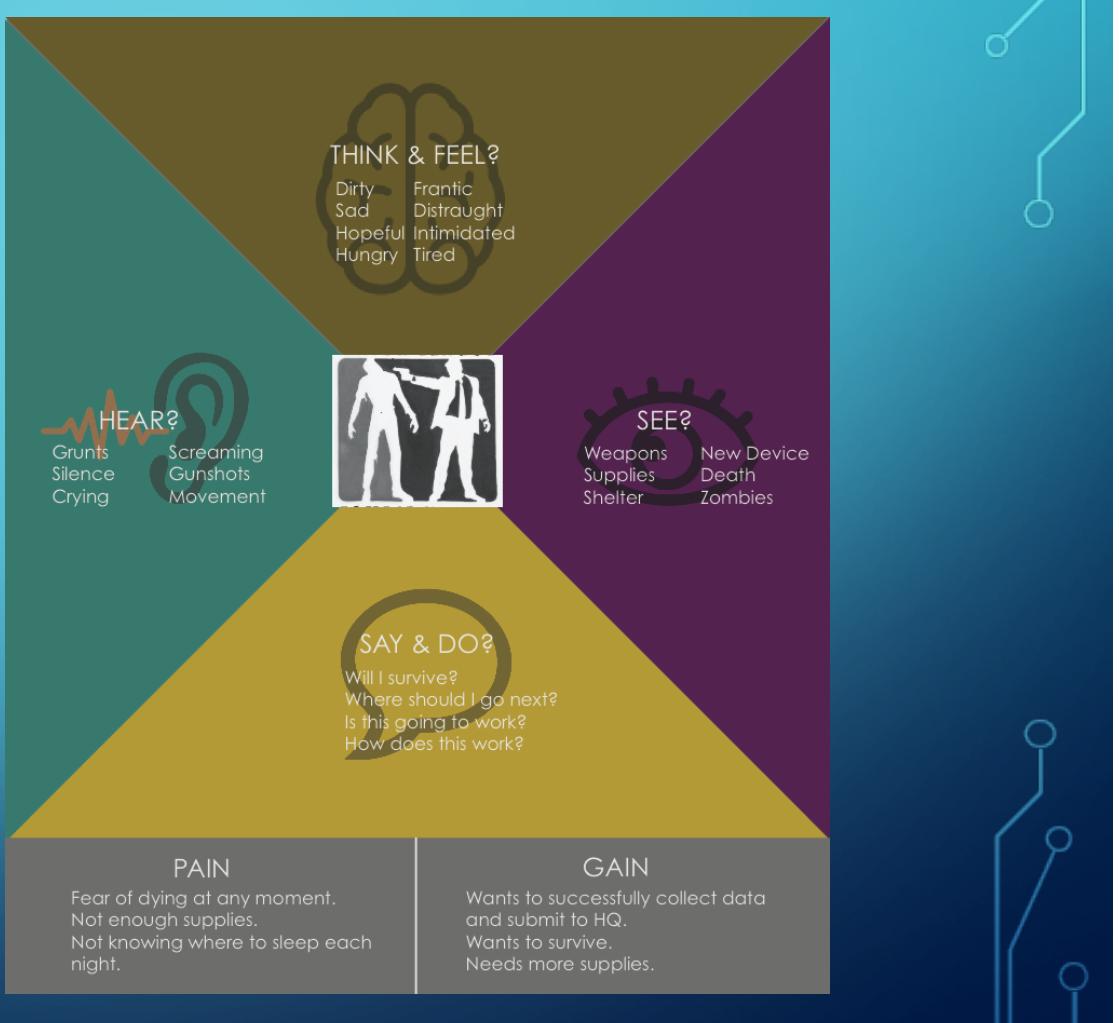
TEAM ANACONDA



## AUTHENTICATION:

- Register the Device
- Automatically Lock the Device
- Shared Devices
- Quick Unlock

# RESEARCH & PROTOTYPING: EMPATHY MAP





## RESEARCH & PROTOTYPING

- CDC's top priority is the collection of data and device recovery, Field Agent survival and safety is secondary
- 4 defined tasks:
  - Register the device
    - Need a protocol for authenticating the device and ensuring Field Agent is registered with CDC
  - Automatically lock the device
    - To ensure data security, the device should lock if Agent dies or is separated from the device
  - Shared devices between Field Agents
    - Need a process for switching users is necessary, Fitbits are unique to each Agent
  - Quick unlock
    - Device needs to be secure and able to be accessed by Field Agent when in potentially high pressure situations with a quick login process

## OPTIONS EVALUATED FOR FIELD AGENT LOGIN

	Ease of Use In High Pressure Situations	Ease of Use While Running	Use In the Dark or While Hiding	Hard To Replicate	No Password To Remember	Use Without Looking At Device
Heart Rate Sensing via Fitbit	✓	✓	✓		✓	✓
Proximity to Fitbit	✓	✓	✓		✓	✓
Fingerprint Scanning	✓	✓	✓	✓	✓	✓
Body Heat Sensing via Fitbit	✓	✓	✓		✓	✓
Retinal Scanning				✓	✓	
Voice Recognition				✓	✓	✓
Typed Password			✓			

## Login Option Scenarios



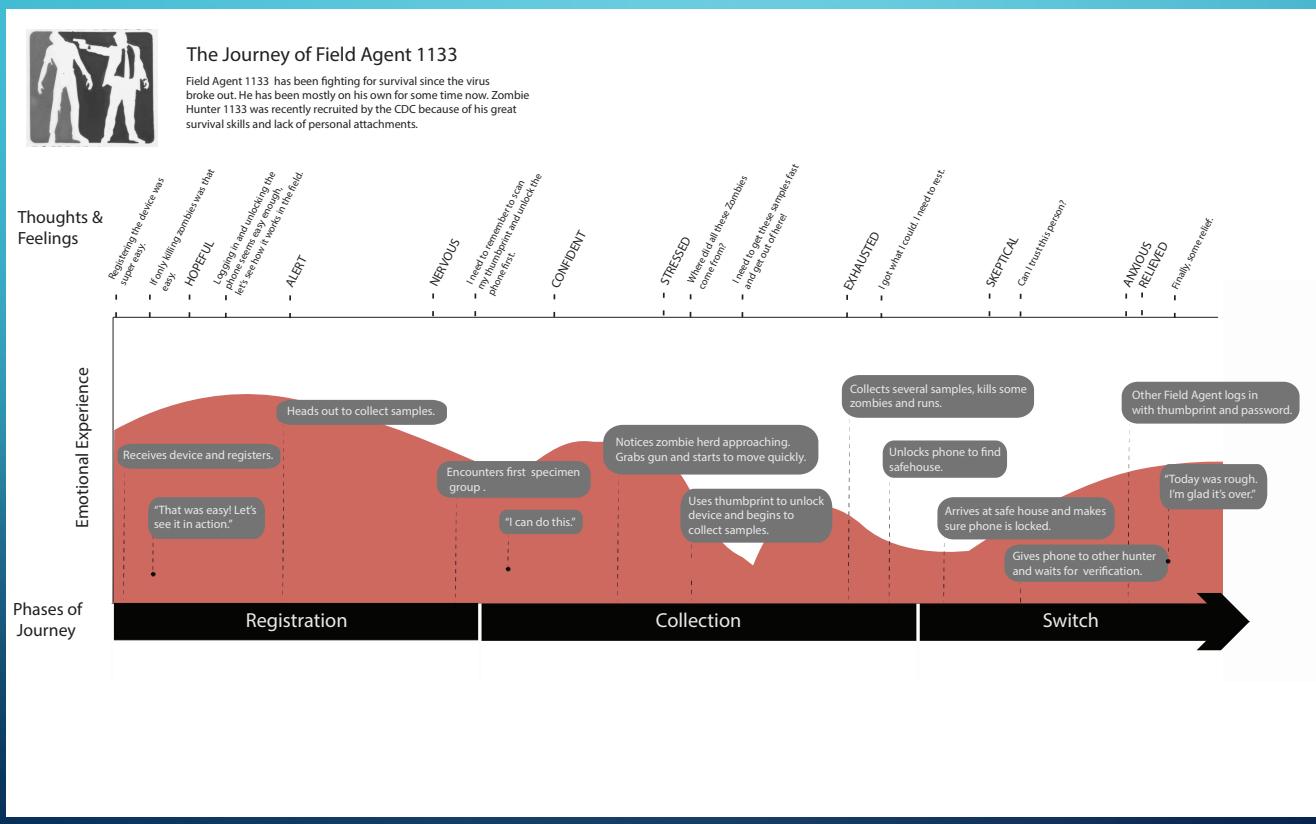
Registration

In Field Use

High Pressure



# RESEARCH & PROTOTYPING: CUSTOMER JOURNEY MAP



# USER TESTING

## METHOD

To track the success rate of logins by Field Agents, 5 devices were distributed and used by 20 Agents.

A threshold of 50% success rate for initial login attempts was used. We determined the low threshold based on ease of re-login after a failed attempt.



70%

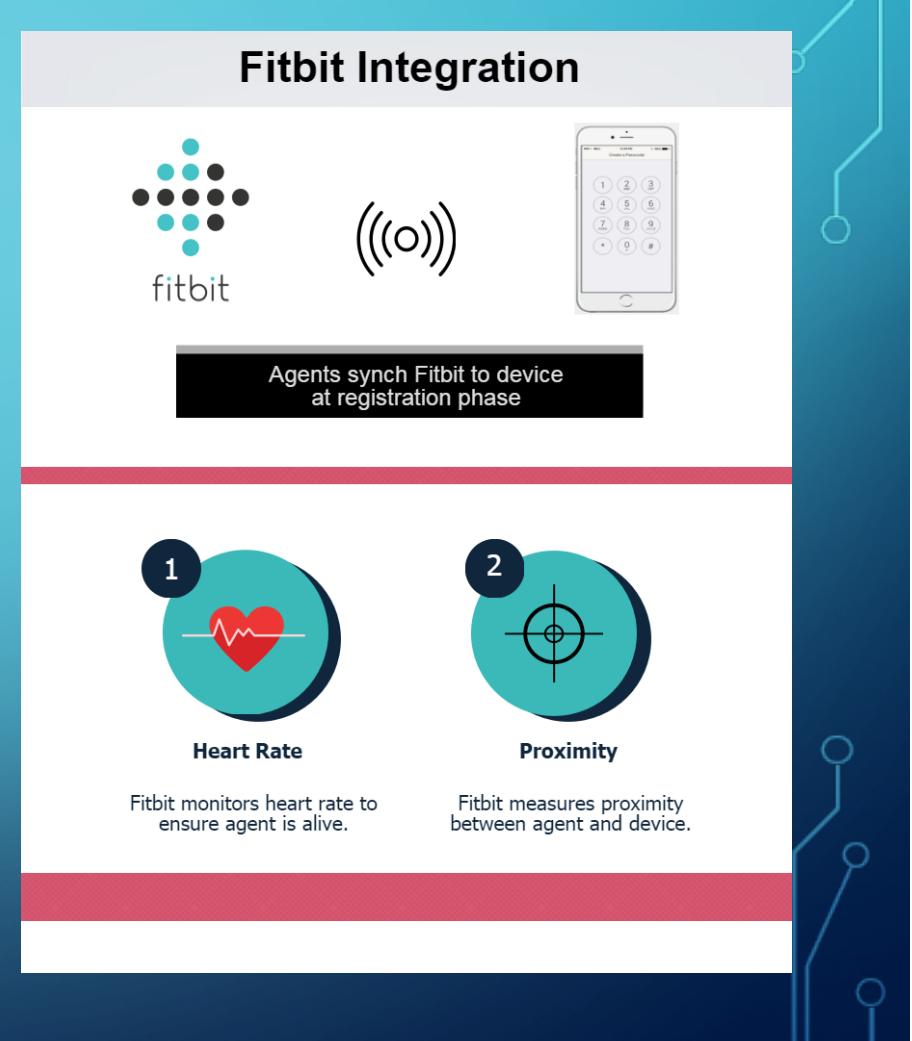
Successful  
login rate on  
the first  
attempt

98%

Overall login  
rate after 3  
attempts

## NEW AGENT REGISTRATION PROCESS

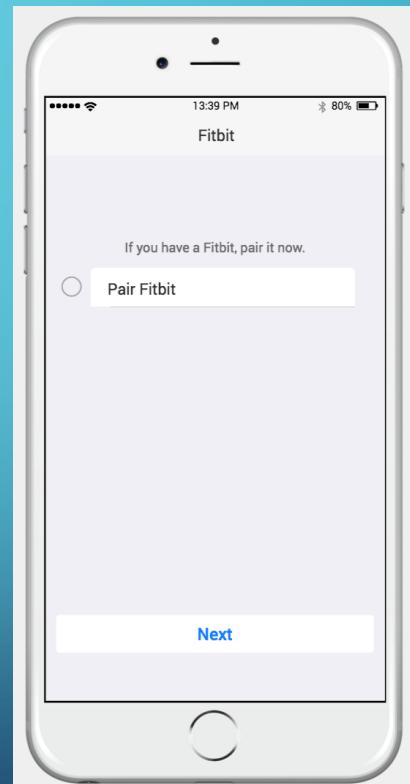
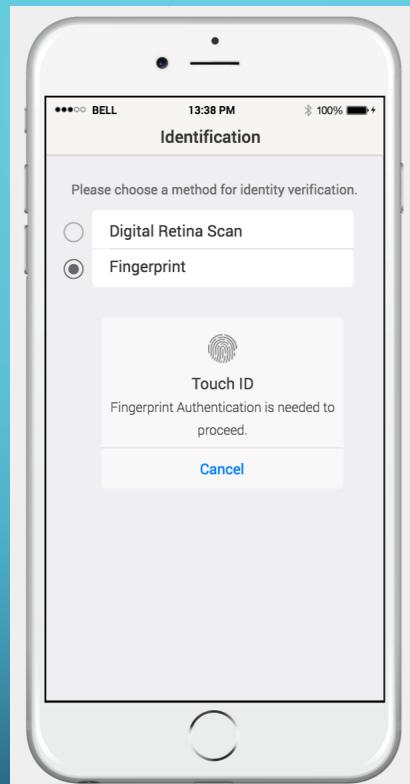
- Objective - ID verification with CDC database
  - Digital retinal scan
  - Fingerprint scan
- Password setting
- Fitbit sync



WIREFRAMES

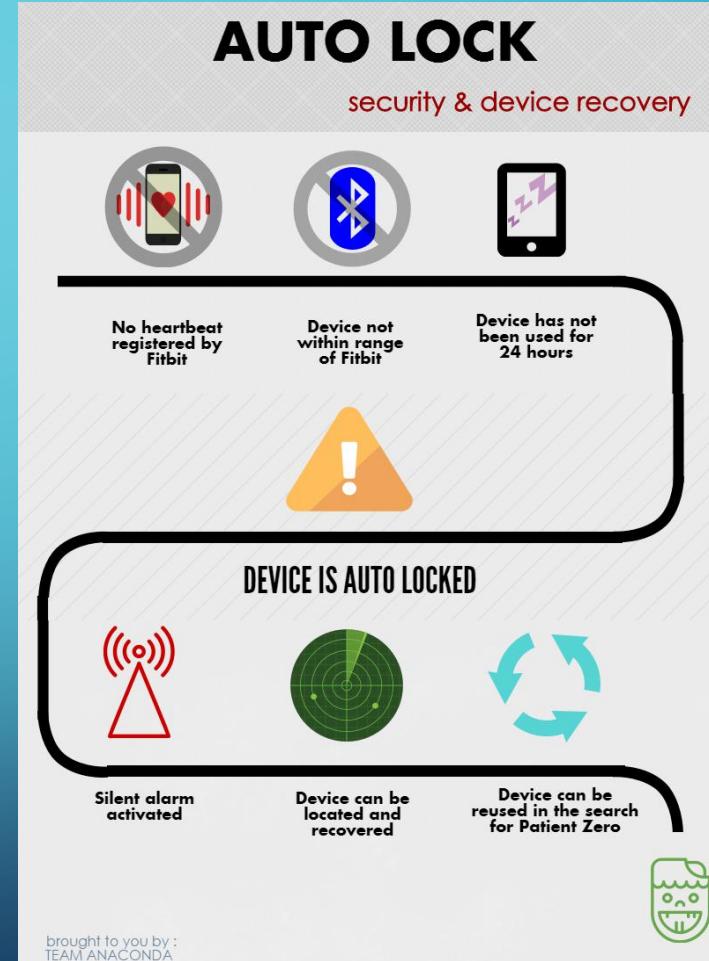
Demo





## AUTO LOCK PROCESS

- Objective - lock the device in the event of:
  - Agent death
  - Abandonment of device
- Device recovery



WIREFRAMES

Demo

