

# IMATTER: MOBILE HEALTH APP

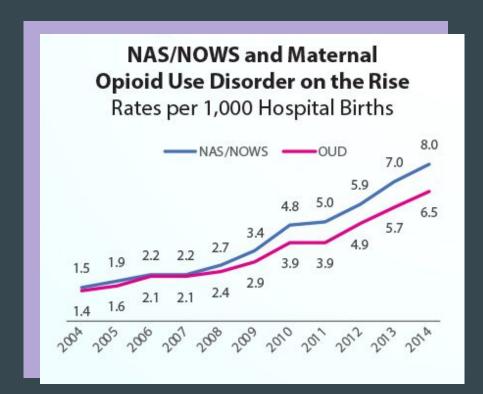
Team ReBoot.

Design Review 2

**Members**: Bianca Altman, Jennie Dallas, Victoria Leafgren, Isai Martinez, Cindy Valentin

**Clients**: Dr. Emery Eaves and Dr. Eck Doerry **Mentor**: Dr. Eck Doerry

### **OPIOID ADDICTION EPIDEMIC**



2+ Million Americans
Struggle with Opioid Use Disorder (OUD)

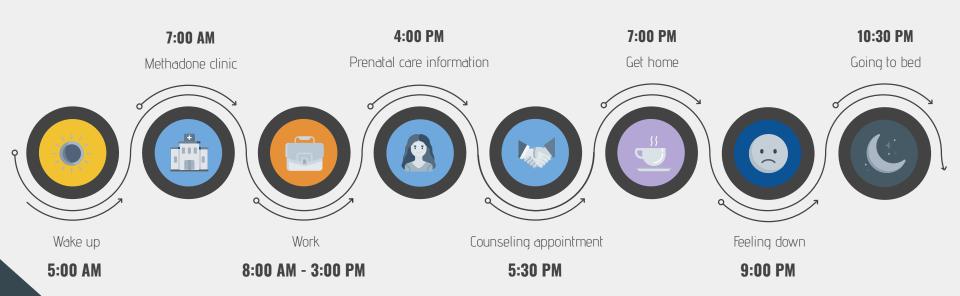
\$78.5 Billion
In annual costs for healthcare and more

6.5 per 1,000 women
Opioid Use Disorder at delivery

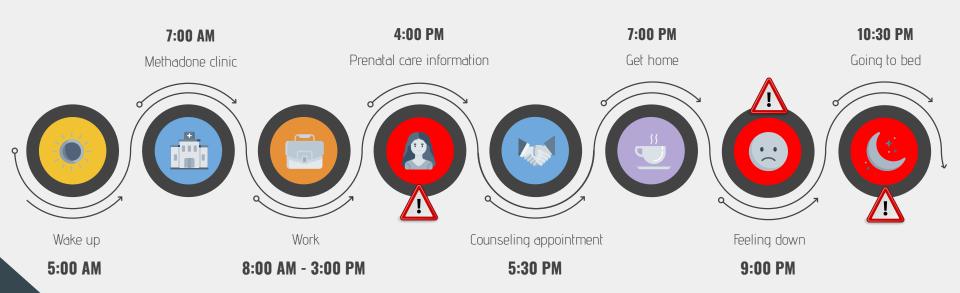
56% relapse rate

For women 6 months postpartum

### SUSAN'S DAY: THE CHALLENGES OF TRADITIONAL RECOVERY



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#### Outcomes:

- 1) Many women relapse
- 2) Women in rural areas struggle with staying in program



DR. EMERY EAVES

- Medical Anthropologist

Researches Opioid Use
 Disorder among pregnant
 women

# SOLUTION OVERVIEW



Safe, Secure, Anonymous



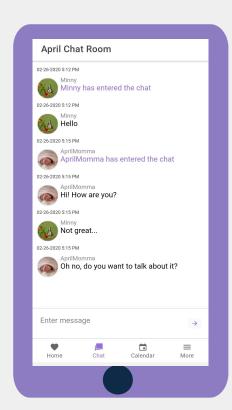
Active Learning



Receiving Support

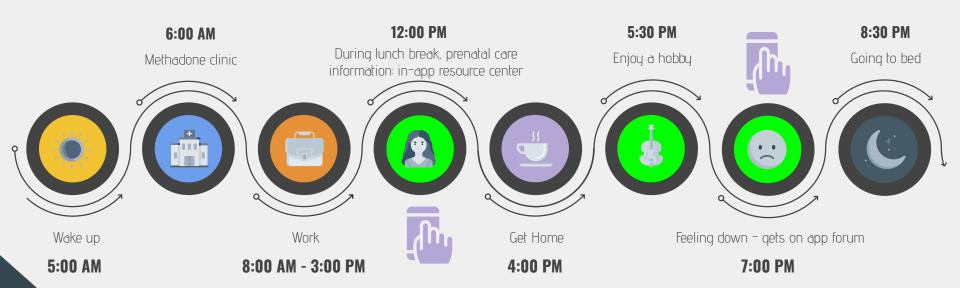


Mobile: Anytime, Anywhere





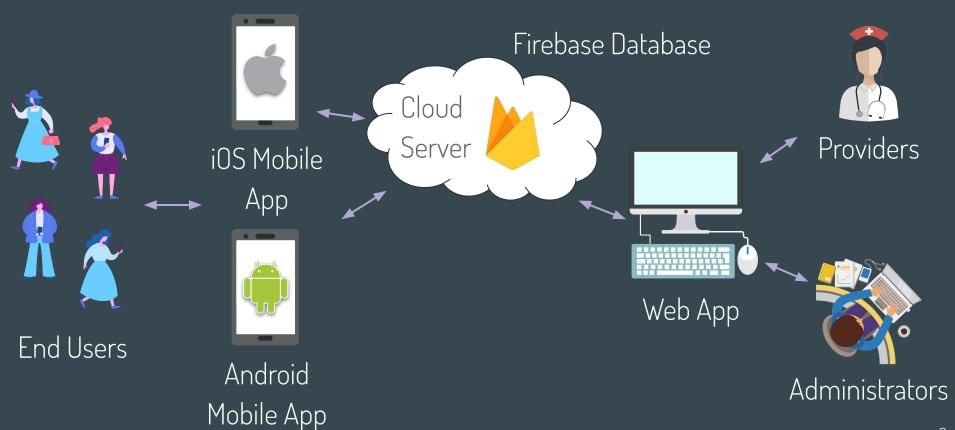
### SUSAN'S DAY WITH IMATTER



#### What iMATter solved:

- Susan now has time for herself
- Being alone at night is now a night spent with the support of a cohort

### **OVERALL IMPLEMENTATION**



### **KE**Y REQUIREMENTS

### - 24/7 Access to Key Medical Information

Info desk forum, resources finder

### - Engaging Social Environments

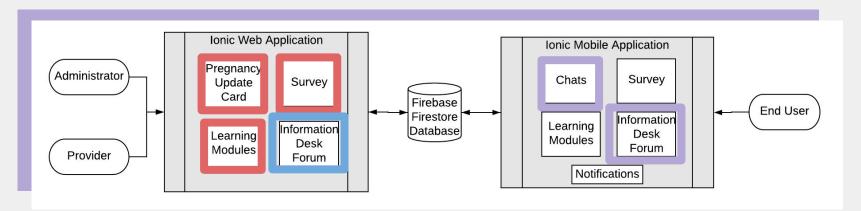
Cohort chat room, educational quizzes, info desk forum

### - Tailored to Pregnancy eJourney (pregnancy calendar)

### Personal Planning Tools - Calendar

- Medication reminders
- appointment reminders

### ARCHITECTURE OVERVIEW



# ADMINISTRATOR (WEB APP)

- Manage User Viewable Content
  - Learning Modules
  - Pregnancy Updates
  - Surveys

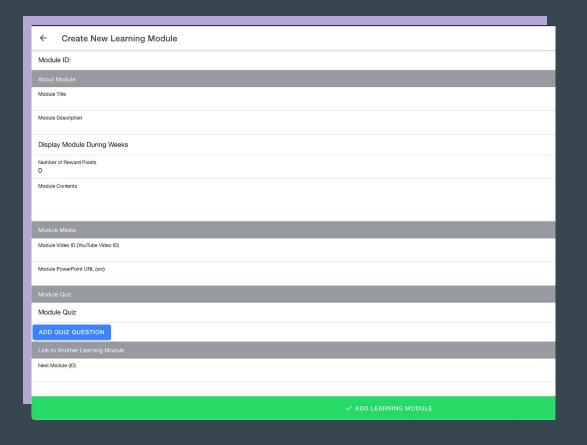
# PROVIDER (WEB APP)

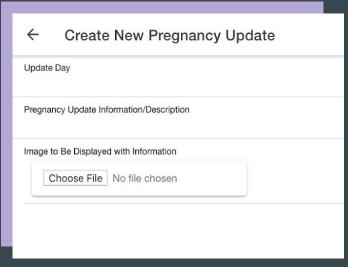
- Interact with Information Desk
  - Post comments on User posted questions

# USER (MOBILE APP)

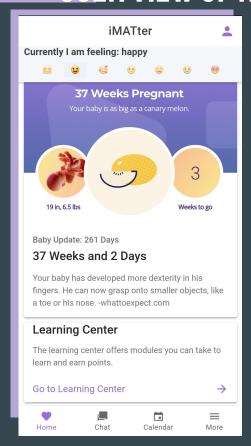
- Social Interactions
  - Cohort Chatroom
  - Send messages

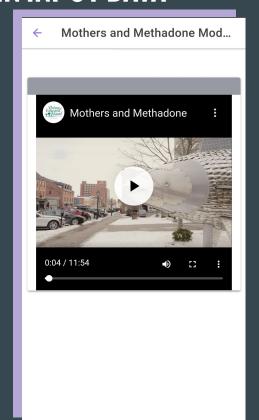
### ADMIN WEB APP - CREATING AND UPLOADING DATA

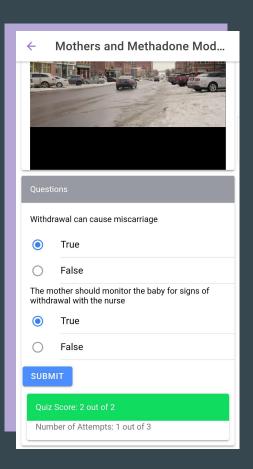




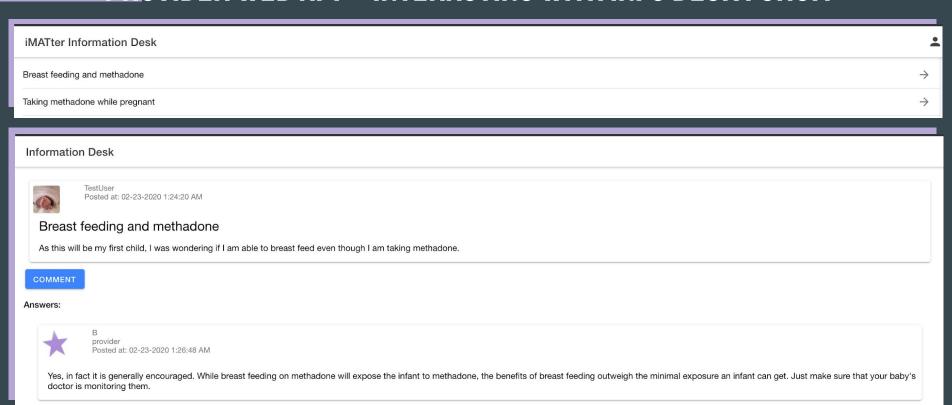
### **USER VIEW OF ADMIN INPUT DATA**



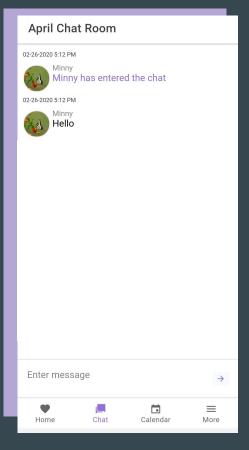


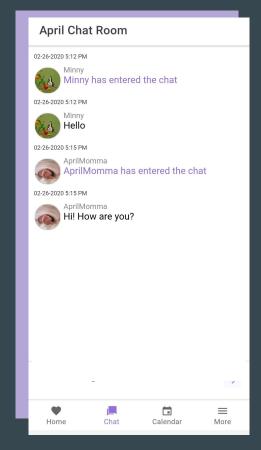


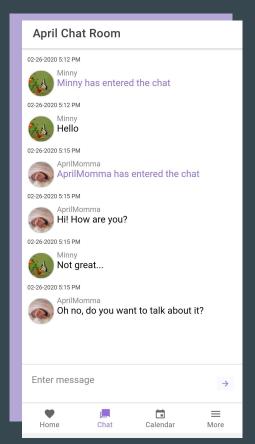
### PROVIDER WEB APP - INTERACTING WITH INFO DESK FORUM



### **USER MOBILE APP - COHORT CHAT ROOM**







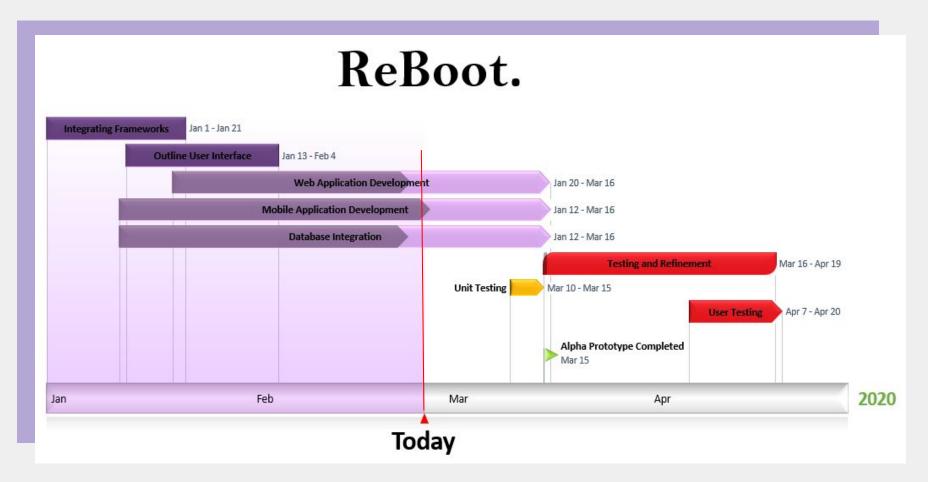
### **CHALLENGES AND RESOLUTIONS**

Previous Challenges - Now Solved

Current Challenges - In Progress

CHALLENGE	SOLUTION	CHALLENGE	SOLUTION / IDEA
Synchronized information on platforms	Firebase's Firestore database allowed for easy management of data and information	Using user's location for resources	Using Google Maps API or a similar mapping service is what we need to accomplish this
Uploading and playing videos on the app	Used YouTube API to manage video controls on the mobile app	Timed events triggering when user not in app	Best option is to use a server service like AWS, to use timed functions when needed
Survey implementation	Client decided she wanted Qualtrics, a survey service already in use by our client		
			15

### **OUR SCHEDULE**



## **CONCLUSION**

#### Solution:

Mobile application with:

- Forum

- Learning Center
- Interactive Components
- Notifications
- Information Desk
- Research Analytics





#### **Problem:**

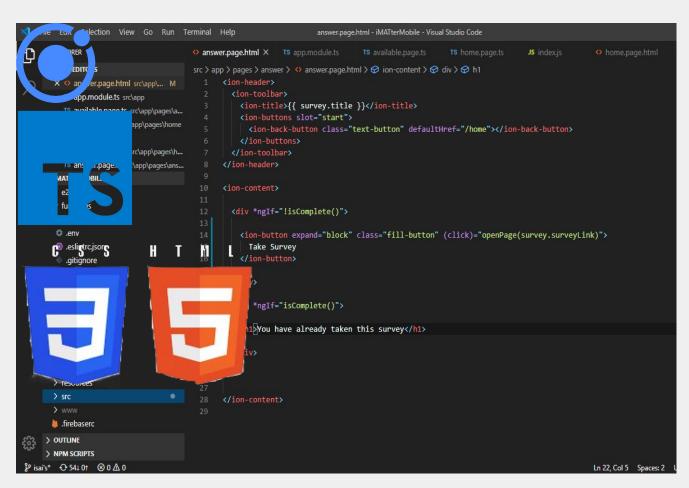
Pregnant women with opioid addictions have a hard time with recovery programs



#### **Mobile Application:**

Safe environment, social forum, information and support

### ARCHITECTURE AND IMPLEMENTATION



- Ionic Framework
- Typescript/Javascript
- CSS & HTML