

IMATTER MOBILE HEALTH APP

Team ReBoot.

Design Review I

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Clients: Dr. Emery Eaves and Dr. Eck Doerry

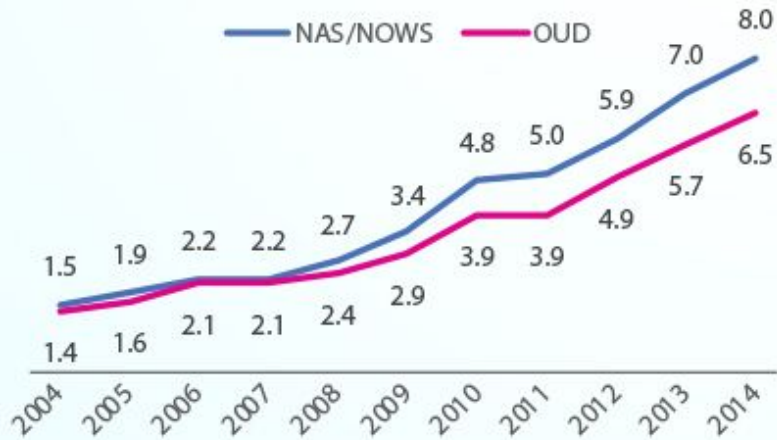
Mentor and Co-Client: Dr. Eck Doerry



ReBoot.

OPIOID ADDICTION EPIDEMIC

**NAS/NOWS and Maternal
Opioid Use Disorder on the Rise**
Rates per 1,000 Hospital Births



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



DR. EMERY EAVES

MAJOR OBSTACLES:



Appointments

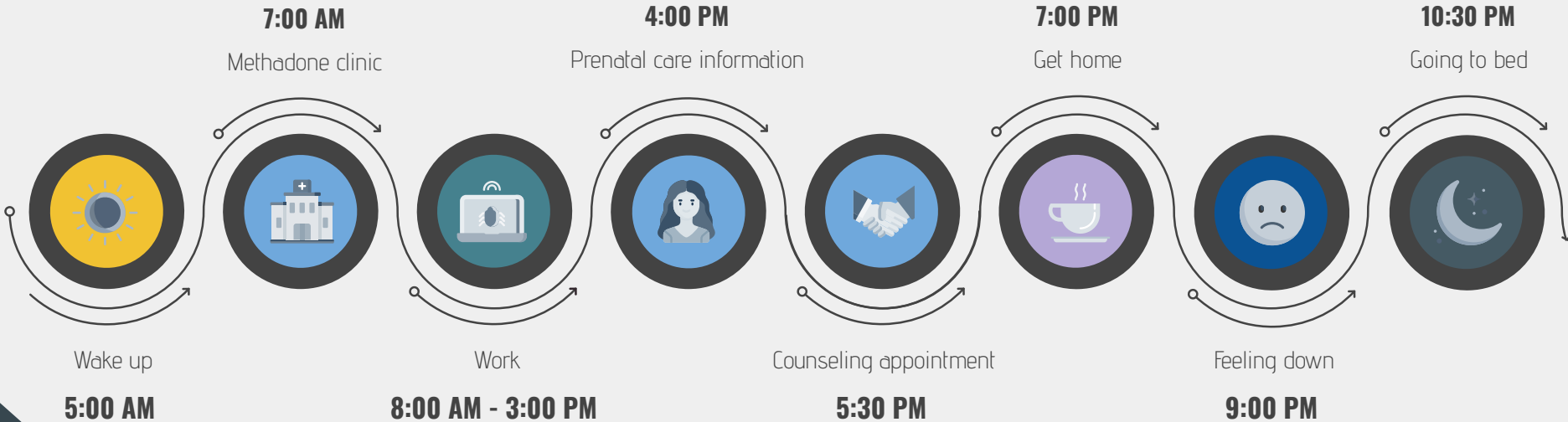


Lack of social support



Stigma

SUSAN'S DAY: THE CHALLENGES OF TRADITIONAL RECOVERY



Problems:

- 3 appointments a day
- Alone at night without support

OVERALL SYSTEM



Mobile App



Web App



Server



Firestore Database

SOLUTION OVERVIEW



Safe, Secure, Anonymous



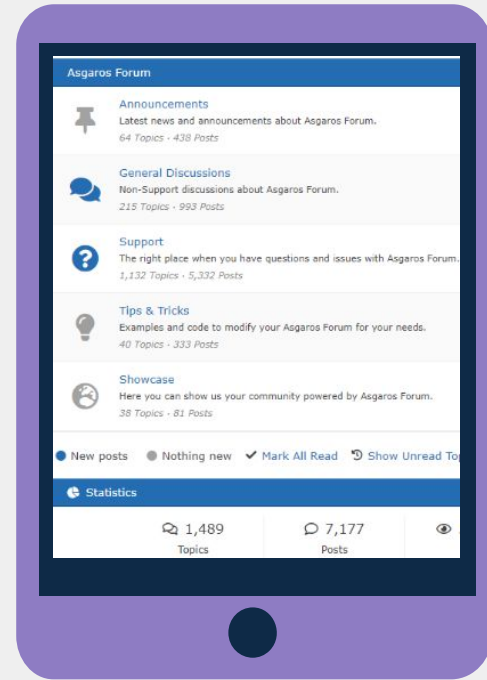
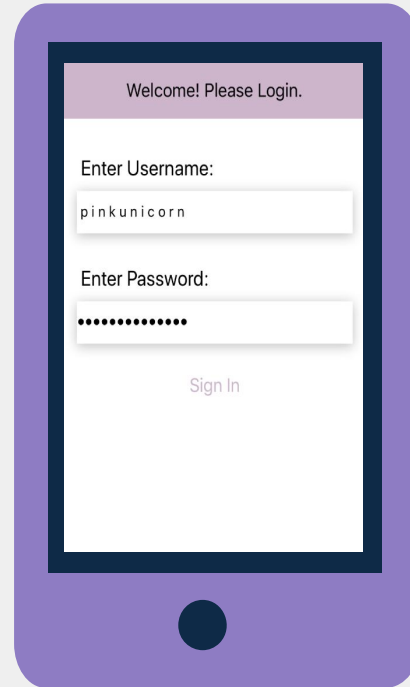
Active Learning



Receiving Support



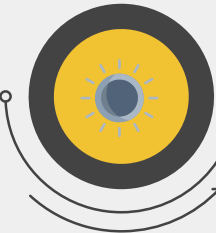
Mobile: Anytime, Anywhere



SUSAN'S DAY WITH IMATTER

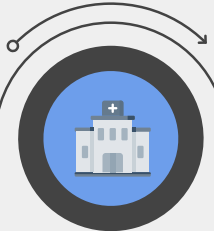
6:00 AM

Methadone clinic



Wake up

5:00 AM



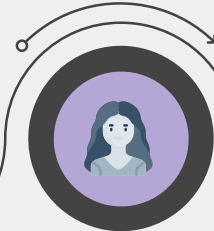
8:00 AM - 3:00 PM



Work

12:00 PM

During lunch break, prenatal care information: in-app resource center

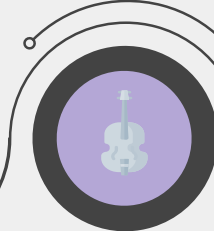


Get Home

4:00 PM

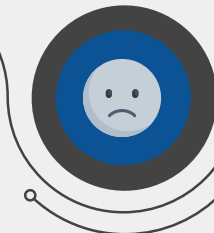
5:30 PM

Enjoy a hobby



Feeling down - gets on app forum

7:00 PM

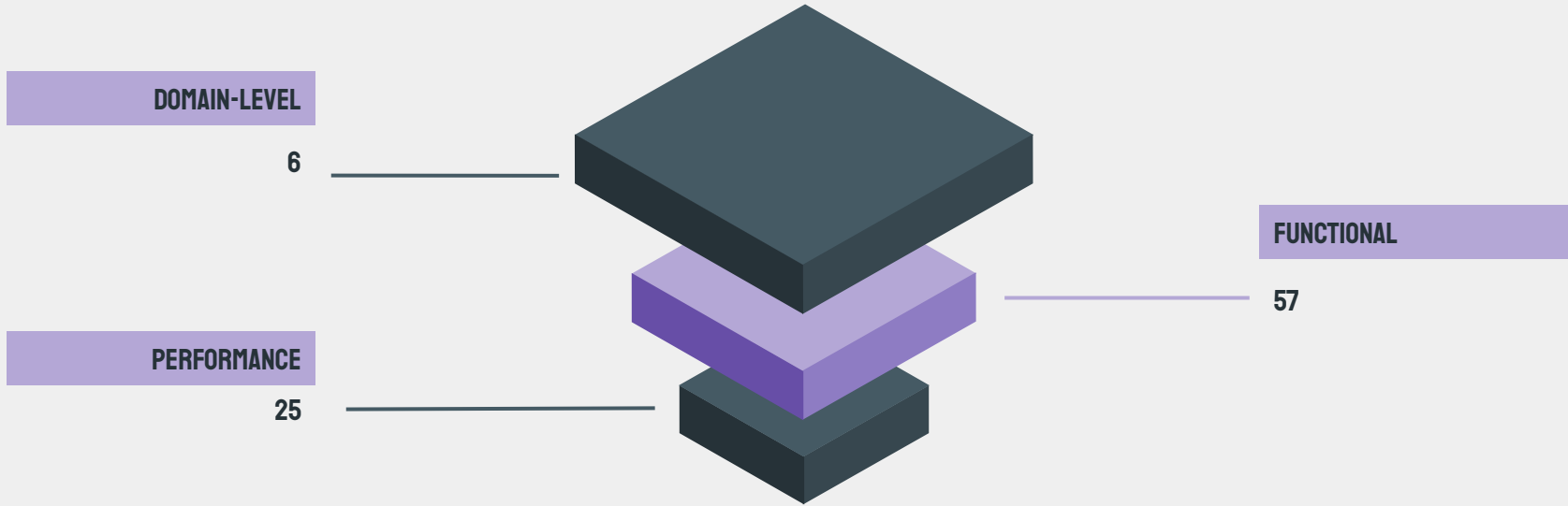


8:30 PM

Going to bed



REQUIREMENTS: OVERVIEW



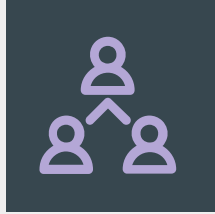
REQUIREMENTS ACQUIRED BY:

- Client Meetings
- Use Cases
- Iterative Refinements

DOMAIN- LEVEL REQUIREMENTS OVERVIEW



1. Support Accounts



2. Different Capabilities for Different Account Types



3. Information Desk



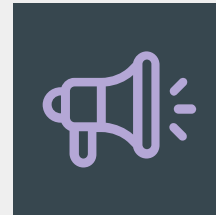
4. Way to Message with Other Users in Group



5. Interactive Components to Aid Recovery



6. Reward System



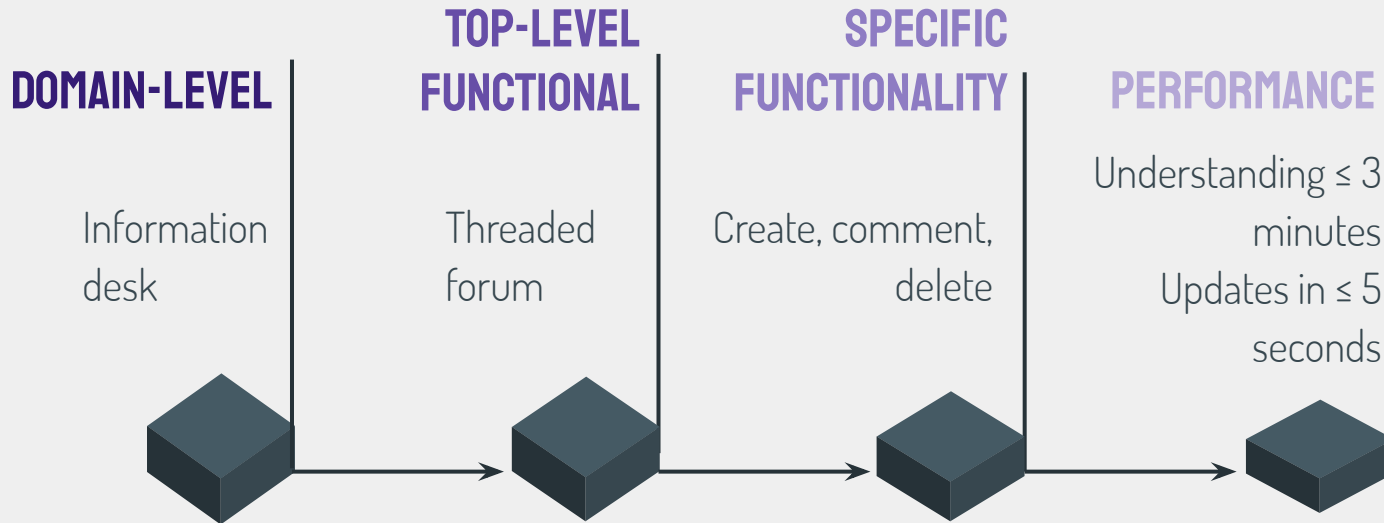
7. Reminders



8. Research Analytics

User: Susan is signed up for the application wants to ask for advice on why she is feeling so sick and wants to ask a medical professional what this may mean.

Requirements:



USE CASE

FUNCTIONAL REQUIREMENTS



SECURE ACCOUNTS

Code to signup, only pseudonyms



LEVELS OF PRIVILEGE

User, administrator, and medical professional accounts



CALENDAR

Add appointments or medication consumption times



COHORT MESSAGE SYSTEM

Ask questions, give advice, and give support to group members



THREADED FORUM

Ask a medical professional in a threaded forum



LEARNING CENTER

Take learning modules to earn points



WIDGETS

Widgets for mood surveys, baby development facts, and resources



REWARD TRACKER

Earn points by interacting with certain components to redeem for gift cards



NOTIFICATIONS

Receive notifications for calendar events, forum events, and new content



RESEARCH ANALYTICS TOOL

View graphs to see how users are interacting with app

CALENDAR FUNCTIONAL REQUIREMENT BROKEN DOWN

Domain Requirement 5 | Functional Requirement 3 - Calendar



- Users will have a built-in interactive calendar in the application that will display user-added events.
- Users can add events to the calendar, including:
 - Medication (consumption times)
 - Appointments (doctor's, methadone clinic, etc.)
- Events on the calendar will trigger push notifications for reminding user of when the event is happening

PERFORMANCE REQUIREMENTS

Calendar Breakdown:

DR5.PR4.0 Calendar

- Adding events to calendar should take ≤ 5 seconds
- Understanding of how to interact with calendar should take ≤ 2 minutes for most users.



Performance Speed



User Learning Speed



iOS

ENVIRONMENTAL CONSTRAINTS



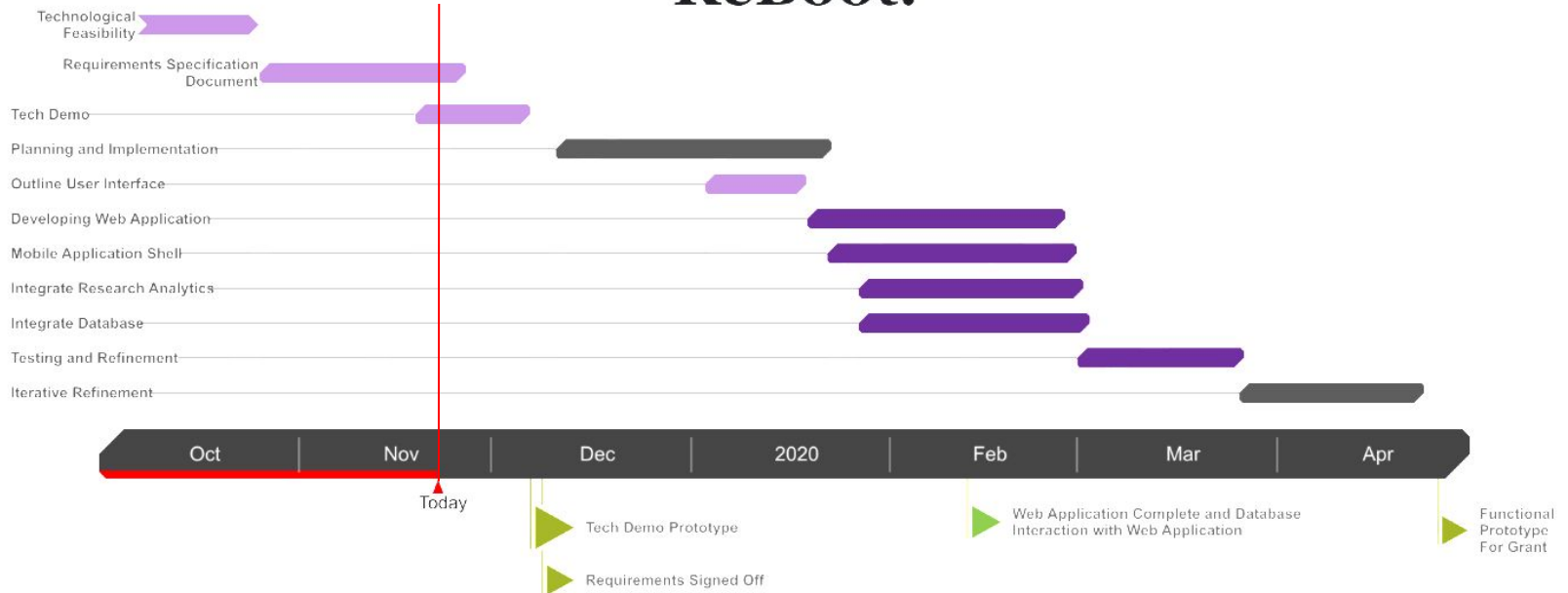
Android

RISKS AND FEASIBILITY








RISK	SEVERITY	LIKELIHOOD
Negative social dynamics form	High	Low
User loses unique code before entering it	Medium	Low
Analytic tool is not integrated properly	High	Low

OUR SCHEDULE

ReBoot.



PLANS FOR TECH DEMO:

-  Login page
-  Play video
-  Send notification
-  Integrate database
-  Integrate forum tool
-  Connect mobile app and web app
-  Basic research analytic created

CONCLUSION

Solution:

Mobile application with:

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



Problem:

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



Mobile Application:

Safe environment, social forum, information and support