

Care Corner

Feel like you should: Safe

CS-411 Copper Team Prototype
Demonstration Presentation
Spring 2021

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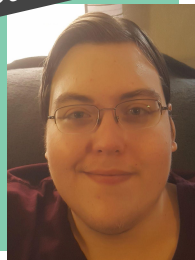
Android Team

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Android Team

Gustin Prudner



AWS Team

BACKGROUND

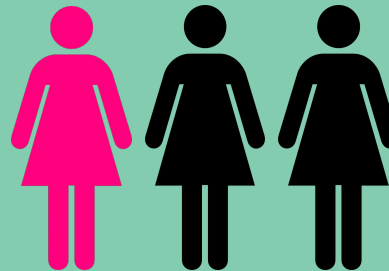
61% of women regularly take steps to avoid being sexually assaulted ^[20]



7 out of 10 women say they always have their phone prepared when walking alone ^[20]



Only **1/5** of rapes and attempted rapes are reported ^[17]



1 in 3 women have been a victim of rape or attempted Rape ^[17]

THE PROBLEM

Too often, people feel unsafe in situations when they are alone and live with a constant fear of being attacked. If an attack does happen, confusion about what to do following the attack is likely to follow.

PROBLEM CHARACTERISTICS

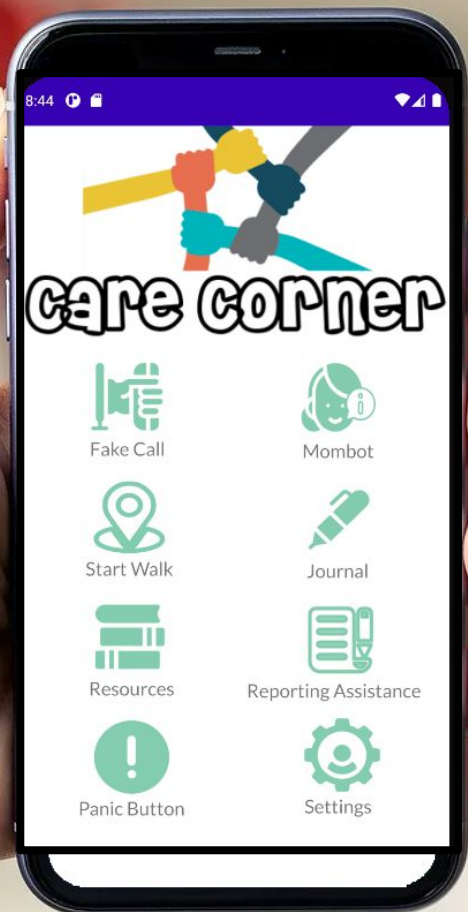
In the moment of an attack, the victim's resources are limited to calling 911.



Many victims are confused about how to and what the right way to report is.^[22]

People are not aware of the actions they could take to aid in the fight against sexual assault.^[23]

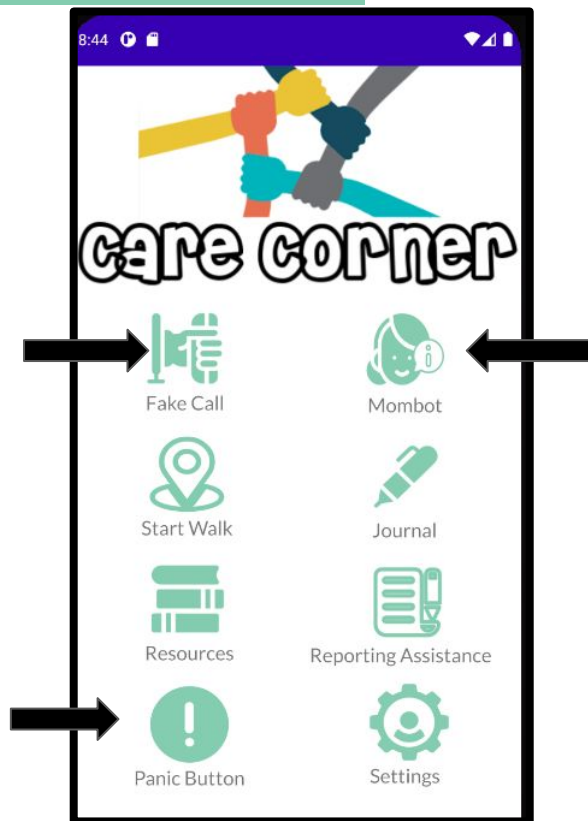




THE SOLUTION

Care Corner is a mobile application that will provide safety features for responding to potentially unsafe situations, aid in the fight against sexual assault, and assist victims of assault in determining how to find resources and report the crime.

SOLUTION CHARACTERISTICS: SAFETY FEATURES



Panic Button

When the Panic Button is triggered it will send an alert to your trusted contacts as well as begin recording video and audio.

Mombot

Mombot will analyze your words for keywords and return helpful feedback with relevant information to be cautious of.



Fake Phone Call

User will receive a fake phone call to 'chat' with while walking alone or an fake emergency to get out of an uncomfortable situation.

SOLUTION CHARACTERISTICS: RECOVERY



Journal

Users are provided a private Journal to assist in their recovery

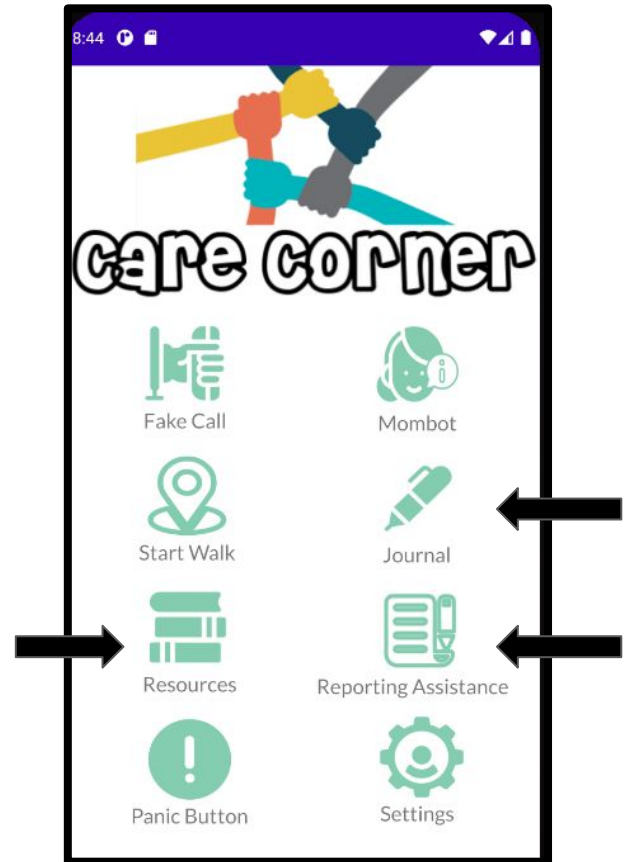
Resources

Provides current hotlines, help sites, and other resources to help users.



Reporting Assistance

Users can access their Incidents created after deactivating the Panic Button



Customer & Users

Case Study:

Women attending Old Dominion University

Product Customers:

All genders, members of the LGBTQ+ community

College-age women experience a high amount of abuse: astoundingly 26% of all undergraduate women experience some form of sexual violence.



RWP VS PROTOTYPE FEATURES

| | Real-World | Prototype | Current | |
|--|------------------|------------------|------------------|---|
| ArmedSafe Walk | | | | |
| Notify contacts via MMS | Fully Functional | Fully Functional | Fully Functional | |
| Send location/destination to contacts | Fully Functional | Fully Functional | Fully Functional | |
| Audio Recording & Storage on Server | Fully Functional | Fully Functional | Fully Functional | |
| Video Recording & Storage on Server | Fully Functional | Fully Functional | Eliminated | Complex, camera on the emulator difficulty. |
| GPS data Recording & Storage on Server | Fully Functional | Fully Functional | Fully Functional | |

REAL WORLD PRODUCT VS PROTOTYPE FEATURES

| | Real-World | Prototype | Current | |
|--------------------------------------|------------------|------------------|----------------------|---------------------------------------|
| Panic Button | | | | |
| Send Location | Fully Functional | Fully Functional | Fully Functional | |
| Send preset message | Fully Functional | Fully Functional | Fully Functional | |
| Start recording audio | Fully Functional | Fully Functional | Fully Functional | |
| Timestamp location and time of panic | Fully Functional | Fully Functional | Fully Functional | |
| Journal | | | | |
| Can record in/ view Journal | Fully Functional | Fully Functional | Fully Functional | |
| Password(PIN) Protected | Fully Functional | Fully Functional | Partially Functional | Functional but not merged into master |

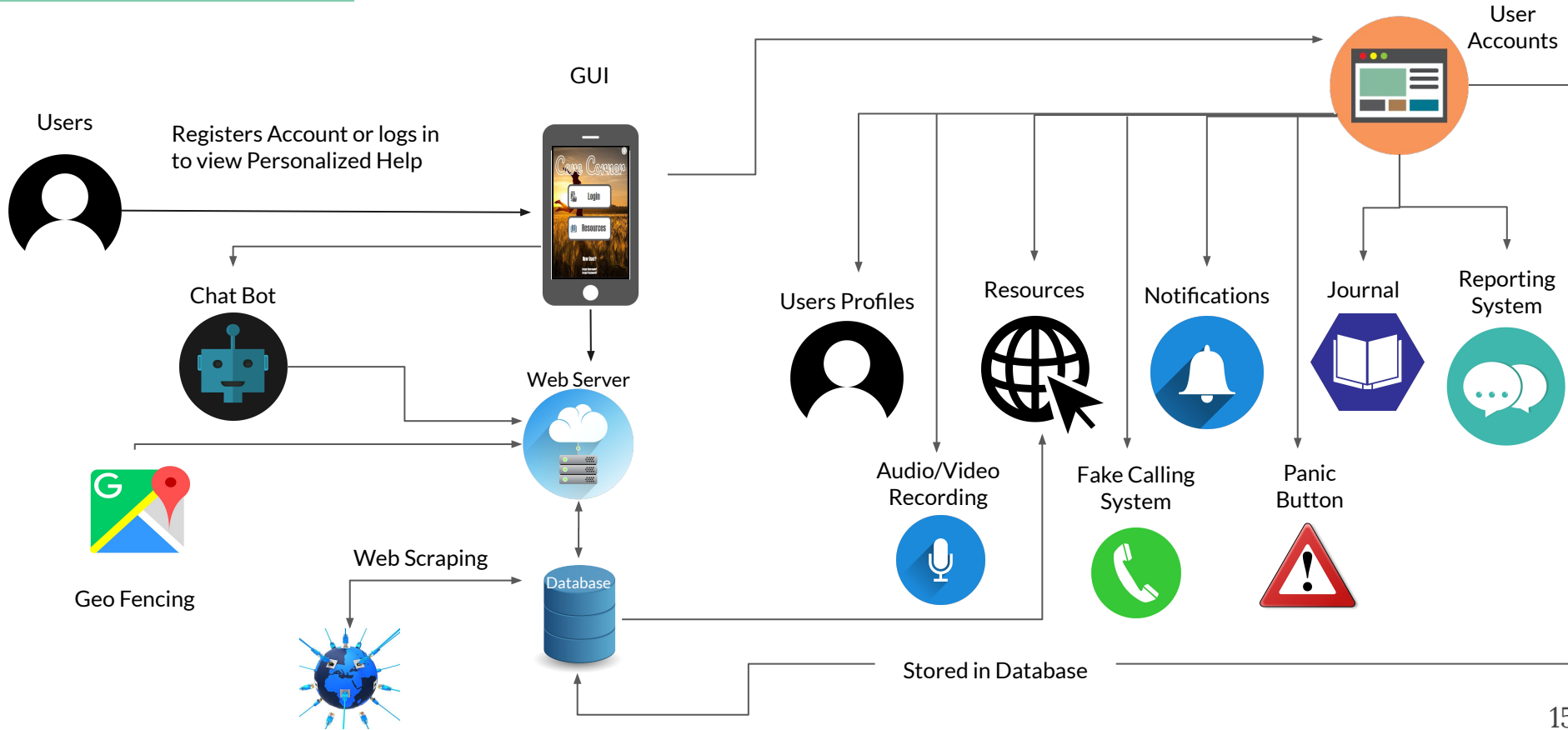
REAL WORLD PRODUCT VS PROTOTYPE FEATURES

| | Real-World | Prototype | Current | |
|---|------------------|----------------------|----------------------|--------------------------------------|
| Fake Phone Call | | | | |
| Start recording audio | Fully Functional | Fully Functional | Fully Functional | |
| Start recording video | Fully Functional | Fully Functional | Fully Functional | |
| Activate Panic | Fully Functional | Fully Functional | Fully Functional | |
| Include fake voice | Fully Functional | Fully Functional | Fully Functional | |
| Pre-program what name the call appears to come from | Fully Functional | Eliminated | Eliminated | |
| Mombot | | | | |
| Write plans and receive advice in response | Fully Functional | Partially Functional | Partially Functional | Simpler, keyword based |
| Verbalize plans, verbalized advice in response | Fully Functional | Partially Functional | Partially Functional | User can use built-in speak-to-text, |

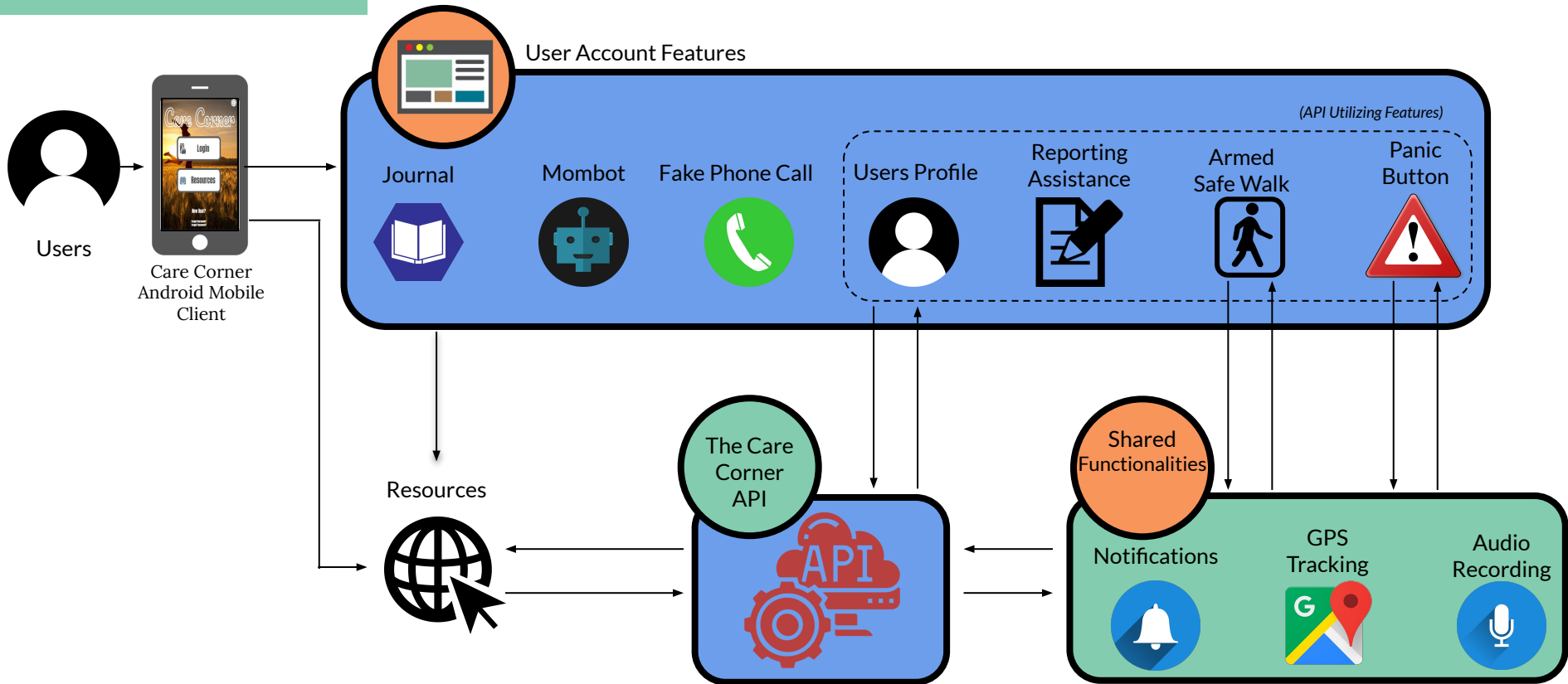
REAL WORLD PRODUCT VS PROTOTYPE FEATURES

| | Real-World | Prototype | Current | |
|--------------------------------|------------------|----------------------|----------------------|--|
| Reporting Assistance | | | | |
| View incidents | Fully Functional | Fully Functional | Fully Functional | |
| Resources | | | | |
| Educational Readings | Fully Functional | Partially Functional | Partially Functional | A few simple hardcoded sources |
| Geofenced Resources | Fully Functional | Partially Functional | Partially Functional | |
| Websites | Fully Functional | Partially Functional | Partially Functional | |
| Authentication | | | | |
| User account creation | Fully Functional | Partially Functional | Partially Functional | Emergency Contacts are prepopulated with ability to edit/update. |
| User Credential Authentication | Fully Functional | Partially Functional | Partially Functional | Prepopulated database |

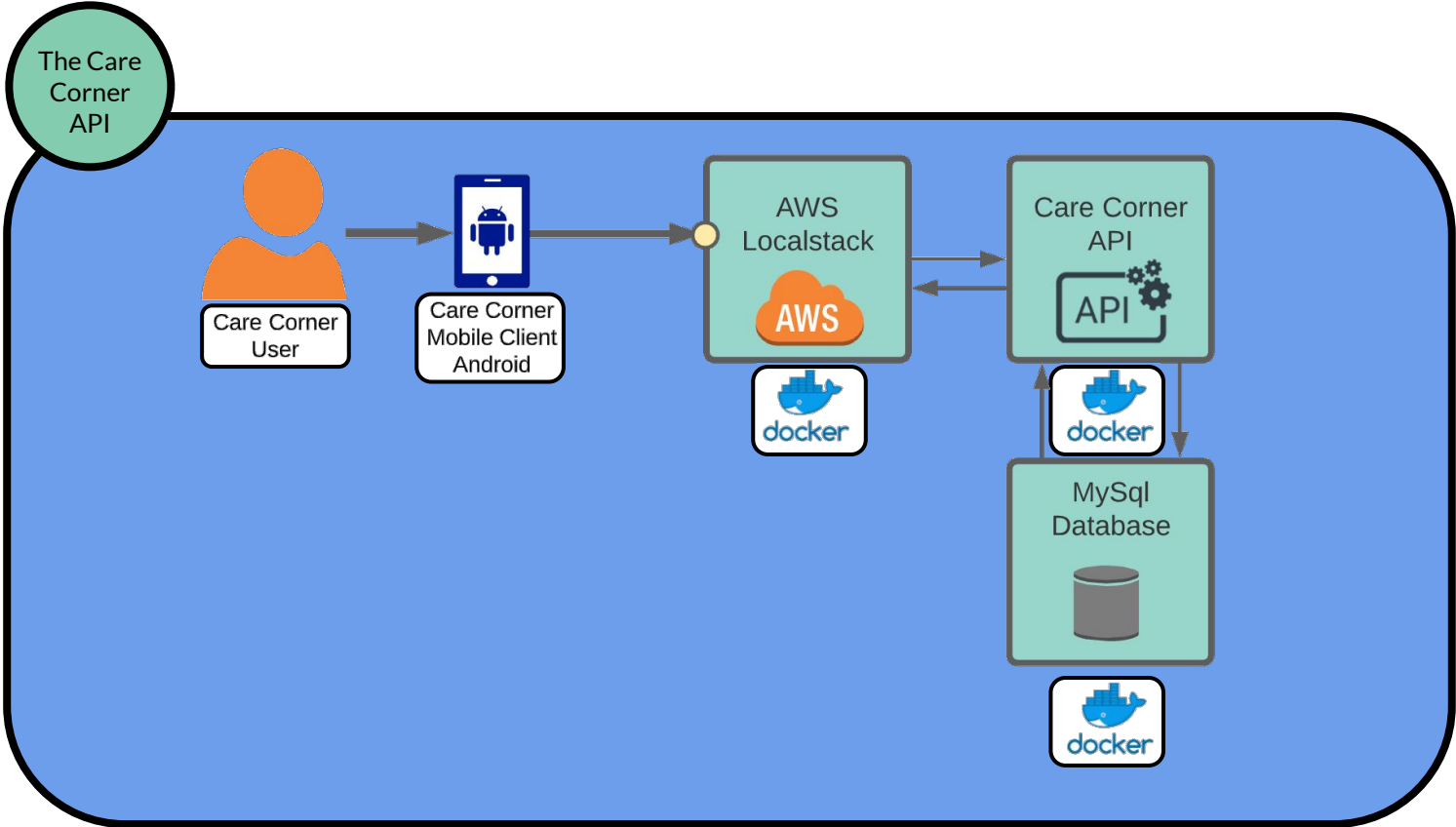
RWP MAJOR FUNCTIONAL COMPONENT DIAGRAM (MFCD)



PROTOTYPE MAJOR FUNCTIONAL COMPONENT DIAGRAM (MFCD)



CARE CORNER API DIAGRAM



DATABASE



DEVELOPMENT TOOLS

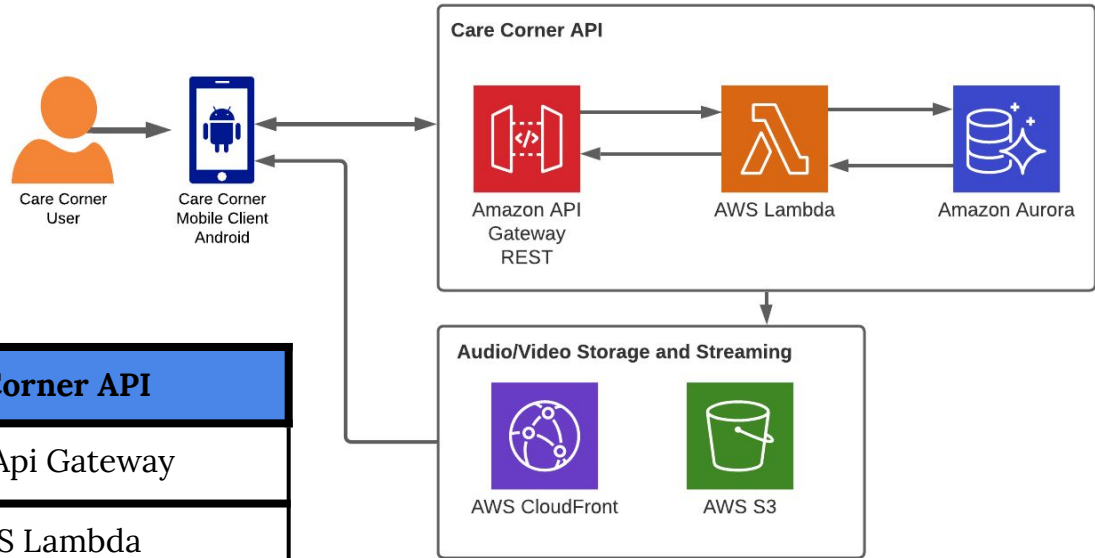
Software Requirements

| Component | Care Corner Mobile |
|-------------------|----------------------------|
| Language | Java |
| Operating System | Android |
| IDE | Android Studio |
| UI/UX | Android Studio |
| Build Manager | Gradle |
| Testing Framework | JUnit / Robolectric |

| Component | Care Corner Api |
|-----------------------|-----------------------------|
| Language | Java |
| Api Protocol | REST |
| Web Server | Serverless Framework |
| Database | MySQL |
| AWS Local Environment | Localstack |

| Collaboration | Tool |
|--------------------|----------------------------|
| Version Control | GitLab |
| Project Management | Trello |
| Team Chat | Discord |
| Activity Feed | Zapier Integrations |

DEVELOPMENT TOOLS:Infrastructure Requirements



| Component | Care Corner API |
|--------------------------|-----------------|
| Api Management | AWS Api Gateway |
| Serverless Service | AWS Lambda |
| Audio/Video Data Storage | AWS S3 |
| Content Delivery Network | AWS Cloudfront |
| Database Service | AWS Aurora |

| Component | Care Corner Mobile |
|--------------|--------------------|
| Mobile Phone | Android compatible |

Challenges We Faced

- Lack of Android Development Knowledge/Experience
 - RecyclerView
 - Layout Files
 - Robolectric
 - Collaborate Development
 - Git
- Database Usage
 - Most of the team never developed a program that used a database
- API Usage
 - Never used Twilio or Google Maps API before.
- COVID-19 indirectly and directly affecting team.
- Collaboration between team members living in different time zones

Development Model (Scrum)

FAKE PHONE CALL
in list Epics

LABELS START DATE
Fake Phone Call + Feb 7 at 8:00 AM

DUE DATE
Mar 18 at 7:59 PM **COMPLETE**

Description
Add a more detailed description...

Epic status: 83% done

Attachments
FPC.png
Added Feb 10 at 8:17 PM - Comment - Delete - Edit

User Stories

- Set up FPC Landing Screen
- Setup Fake Call Screen/Functionality
- Set Functionality for End Call Button
- Save Last FPC settings
- Set up Audio Recording
- Setup (multiple) fake conversations

+ Add an item

Epics

Stories

Copper Team Board

Epics

- NEW USER SETUP WELCOME
USER AUTHENTICATION
Feb 21 - Apr 4
- NEW USER SETUP WELCOME
NEW USER SETUP
Feb 21 - Apr 4
- NEW USER SETUP WELCOME
NEW USER SETUP
Feb 21 - Apr 4
- SMS FUNCTIONALITY
SMS FUNCTIONALITY
Feb 21 - May 2
- FILE TRANSFER
FILE TRANSFER
Mar 7 - Mar 21
- FILE STREAMING
FILE STREAMING
Mar 7 - May 16
- FILE STREAMING
FILE STREAMING
Feb 21 - Apr 4

To Do (Sprint 2)

- NEW USER SETUP WELCOME
Set up Onboarding Screen
Feb 21 - Apr 4
- NEW USER SETUP WELCOME
NEW USER SETUP
Feb 21 - Apr 4
- AWS SERVER
Set Lambda Function for New User
Feb 21 - Apr 4
- AWS SERVER
Set Lambda Accessor Functions
Feb 21 - Apr 4
- AWS SERVER
Store Audio Test Files
Feb 21 - Apr 4

Doing

- DESIGN ARCHITECTURE
Create Mobile Styleguide
Feb 22
- JOURNAL
Password Protect Journal
Feb 11 - Mar 19
- FAKE PHONE CALL
Audio Recording
Feb 7 - Mar 18

Code Review 0/3

Testing

- DOCKERIZE CARE CORNER API
DOCKERIZE CARE CORNER API
Mar 22
- DATABASE
Set Up Local Aurora Dev
Feb 7 - Mar 21
- FAKE PHONE CALL
Fake Call Screen/Functionality
Feb 7 - Feb 25
- JOURNAL
Journal Editor
Feb 7 - Mar 19
- FAKE PHONE CALL
FAKE PHONE CALL
Feb 7 - Mar 19

Done

- SET UP LOCAL LAMBDA DEV
SET UP LOCAL LAMBDA DEV
Mar 22
- SET UP LOCAL API GATEWAY DEV
SET UP LOCAL API GATEWAY DEV
Mar 22
- FAKE PHONE CALL
FAKE PHONE CALL
Feb 7 - Mar 19
- JOURNAL
Journal Editor
Feb 7 - Mar 19
- FAKE PHONE CALL
FAKE PHONE CALL
Feb 7 - Mar 19

Development Model (Stories)

Audio Recording

in list [Doing](#)

MEMBERS

LABELS

START DATE



Fake Phone Call



Feb 7 at 8:00 AM

DUE DATE



Mar 18 at 7:59 PM

COMPLETE

Description

Edit

As a user, I want _ in order to _

This is the implementation of the ability for you phone to record audio. These will be used in the FPC, as well as the Panic Button and the Safe Walk. So, this should be packaged keeping in mind it needs to be called by multiple functions

-once a recording is stopped, the recording should auto-save locally

-The Idea behind the "store_last" and "delete_last" methods are that within the flow of the feature that is using call recording (FPC, Safe Walk, etc) should be a user prompt that ask if the user wants to save the recording. If the user responds with a:

YES - the flow would call the "store_last" method, which should call the appropriate (and currently non-existent) methods to store on our servers

NO - the flow would call the "delete_last" method, which will delete the latest saved audio file (aka, the one we just saved)

SUGGESTED



Join

ADD TO CARD

Members

Labels

Checklist

Due date

Attachment

Location

POWER-UPS

BigPicture

Google Drive

+ Add Power-Ups

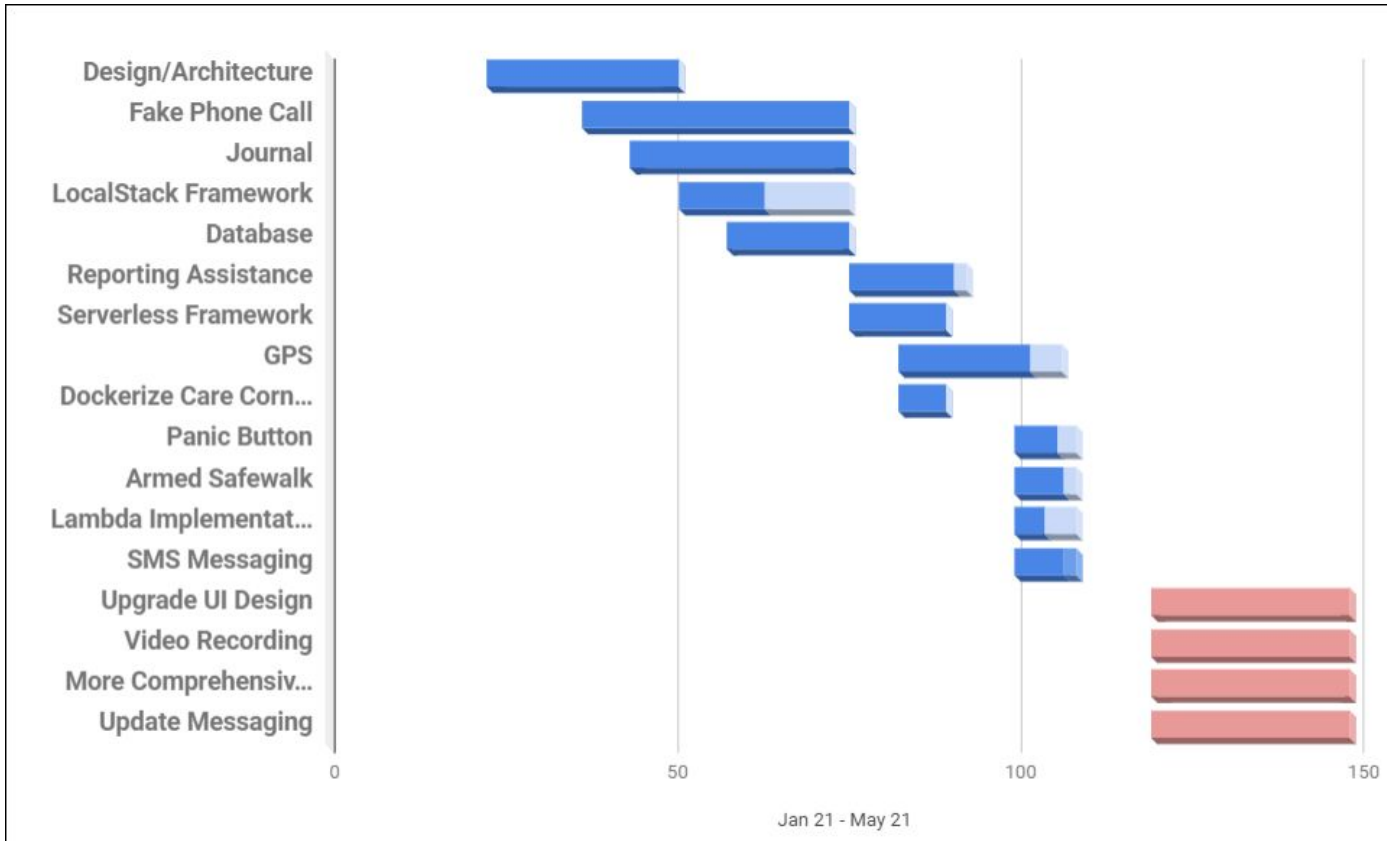
Acceptance Criteria

11%

- Method::** start recording
- Method::** stop recording
- Method::** save recording
- Method::** Delete last Recording
- Method::** Upload last recording (call stub)
- Method::** store recording in specific location
- Method::** delete recording
- Peer Code Review
- Unit-Testing

Add an item

DEVELOPMENT MODEL (Sprint Tracking)



CUSTOMER RISK

Risks

- **C1 -Inadvertent Panic activation.**
- **C2 - Safe Walk and Fake Phone call complexity: User is required to preset both functions.**
- **C3 -User lost internet while on Safe Walk.**

| | | Impact | | | | |
|------------|------------|------------|-----------|-----------|-----------|--------------|
| | | Negligible | Minor | Major | Hazardous | Catastrophic |
| Likelihood | Frequent | | | | | |
| | Probable | | C2 | | | |
| | Occasional | | | | | |
| | Remote | | C1 | | | |
| | Improbable | | | C3 | | |

Mitigation

- **C1** - Delay timer that countdown for five seconds is implemented in prototype, this gives the user an opportunity to cancel the activation.
- **C2** - Prototype offers preset which user can customize.
- **C3** -audio recording saved locally, GSP updates and MMS reporting continues.

TECHNICAL RISK

Risks

- **T1 - Automatic coordination and distribution of MMS updates during SafeWalk and Panic situations**
- **T2 - Audio recording management**
- **T3 - Mombot performance**
- **T4 - Data integrity**

| | | Impact | | | | |
|------------|------------|------------|-----------|-------------------|-----------|--------------|
| | | Negligible | Minor | Major | Hazardous | Catastrophic |
| Likelihood | Frequent | | | | | |
| | Probable | | | | | |
| | Occasional | | | T2, T3, T4 | | |
| | Remote | | | | | |
| | Improbable | | T1 | | | |

Mitigation

- **T1** - Twilio features is employed to ensure fail safe communication
- **T2** -AWS cloud services is employed to ensure fail safe storage
- **T3** -Mombot was trained for keyword recognition
- **T4** - Took advantage of AWS security and integrity

SECURITY RISK

Risks

- S1 - Data security
- S2 - Unauthorized access

| | | Impact | | | | |
|------------|------------|------------|-------|-------|-----------|--------------|
| | | Negligible | Minor | Major | Hazardous | Catastrophic |
| Likelihood | Frequent | | | | | |
| | Probable | | | | | |
| | Occasional | | | | | |
| | Remote | | | | S1, S2 | |
| | Improbable | | | | | |

Mitigation

- S1 - AWS DB offer a robust security which is employed in the prototype
- S2 - Two factor authentication couple with AWS security feature

Appendix: Traceability Matrix

| Traceability Matrix | | Test Cases | | | | | | | | | | | | | | | | |
|--|----------------------|------------|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|---|---|
| | | 4.1.1 | 4.1.2 | 4.2 | 4.2.1 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 4.10 | 4.11 | 4.12 | 4.13 | | |
| R e q u i r e m e n t s | Account Creation | 3.1.1.1.* | █ | | | | | | | | | | | | | | █ | |
| | Login | 3.1.1.2.* | | █ | | | | | | | | | | | | | | █ |
| | Panic Button | 3.1.2.* | | | █ | | | | | | | █ | █ | █ | | | | |
| | Incident Creation | 3.1.2.5 | | | | █ | | | | | | █ | █ | | | | | |
| | Armed Safe Walk | 3.1.3.* | | | | | █ | | | | | █ | █ | | | | █ | |
| | Fake Phone Call | 3.1.4.* | | | | | | █ | | | | █ | | | | | | █ |
| | Journal | 3.1.5.* | | | | | | | █ | | | | | | | | | █ |
| | Mombot | 3.1.6.* | | | | | | | | █ | | | | | | | | █ |
| | Reporting Assistance | 3.1.7.* | | | | | | | | | █ | | | | | | | █ |
| | Resources | 3.1.8.* | | | | | | | | | | █ | | | | | | █ |
| | Audio Recording | 3.1.9.* | | | | | | | | | | | █ | | | | | |
| | GPS | 3.1.10.* | | | | | | | | | | | | █ | | | | |
| | Notifications | 3.1.11.* | | | | | | | | | | | | | █ | | | |
| | Main Menu Screen | 3.1.12.* | | | | | | | | | | | | | | █ | | |
| Welcome Screen | 3.1.13.* | | | | | | | | | | | | | | | | █ | |

Appendix: With another month...

- Expand on Incident creation
- Expand Mombot to talk-to-text
- Add more conversations to Fake Phone Call
- Add filters to resources

STORIES-USERS

As I user, I want to:

Armed Safe Walk

- Notify selected members of my circle of my walk, so that I feel more secure.
- Have the option of personalizing my message when notifying others of my walk, so that it is not just the generic message.
- Have the option to disclose my location when notifying others of my walk, so that I feel more secure.
- Have the option to disclose my destination when notifying others of my walk, so that I feel more secure.
- Be able to instantly begin recording video on my walk, so that I would have evidence if something were to happen.
- Be able to instantly begin recording audio on my walk, so that I would have evidence if something were to happen.
- Be able to instantly begin recording my location on my walk, so that I would have evidence if something were to happen.

Panic Button

- Have quick access to a panic button to call for help, so that I can press it quickly if I feel unsafe.
- Send my location to my selected contacts when I use the panic button, so that they are notified of my location.
- Send a pre-set message to my selected contacts when I use the panic button, so that they are notified that I am in an unsafe situation.
- Start video & audio recording when I activate the panic button, so that I can use it later on if needed.
- Have my location and time of panic button activation timestamped, so that I can use it later if needed.

STORIES-USERS

As I user, I want to:

Fake Phone Call

- Pre-program what name I would like to appear to “call” me so that it appears as a regular phone call
- Click to “answer” the phone call, so that it appears as a regular phone call
- Activate the microphone and record the audio of my fake phone call so that I can use it later if needed.
- Activate the camera and record the video of my fake phone call so that I can use it later as evidence if needed.
- Say a certain phrase to activate the panic button feature so that I can alert someone if I am attacked.
- Press a button to also be able to activate the panic button feature so that I can alert someone if I am attacked.
- Have multiple fake conversations to choose from so that I can use the feature for different situations.

Resources & Education

- Read professional blogs, so that I can educate myself on sexual assault
- Be given the phone number of the national sexual assault hotline, so that I can call them if I need to
- Be given the phone number of the national suicide prevention hotline, so that I can call them if I need to
- Find shelters based on my location, so that I can get directions to one if I need to
- Find nonprofits based on my location, so that I can get directions to one if I need to
- Find counselors based on my location, so that I can get directions to one if I need to
- Find campus police if I am on a college campus, so that I can get directions to one if I need to
- Find police stations based on my location, so that I can get directions to one if I need to
- Visit official government websites, so that I can see their positions on sexual assault
- Visit trusted nonprofit websites, so that I can see what services they provide for my need.
- The location based help to change as my location changes, so that I can use the app no matter where I am located.

STORIES-USERS

As I user, I want to:

Mombot & Reporting

- Get helpful tips so that I can help protect myself when I go out.
- Get information for reporting sexual assault to multiple reporting agencies so that I know how & where to report my crime.
- Have speech-to-text recognition so that I don't have to use my hands.
- Learn the difference between how to report to different types of places, so that I am transparent in who/where I will be reporting
- Speak into the app to tell them where I am going and have the app redirect me to tips for that location, so that I can get tips relevant to the location I am going to.
- Have the mombot run through a checklist of things to do before I go out, so that way I don't forget to do the safety precautions.

Journal & Depression/PTSD

- Reach out to a counselor in a time of crisis so that I can get immediate help.
- Have a private journal so that I can work through my thoughts in a safe place.
- Have a private journal that is password protected so that I can ensure that my privacy is protected.
- Have resources available for dealing with PTSD and depression so that I can use them if I need to.
- Share selected journal entries with selected contacts so that I can communicate my thoughts in a less direct way.

STORIES-GUEST

As I guest, I want to:

Resources & Education

- Access the resources section without logging in, so that I can find resources near me quick without having to make an account.
- Access the reporting section without logging in, so that I can learn how to report to the agency that I may decide to report to.

RESOURCES

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