
Care Corner

Connect yourself with people who care.

Feasibility Presentation

CS 410 Fall 2020

Team Copper

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Meet the Team



Olayinka Adegun



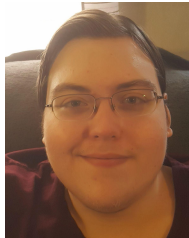
Casey Carpenter



Kyle Grissom



Thorrell Turner



Ernest Webb



Tremain Young



The Facts



Suicide

- Globally, there is a suicide every 40 seconds.¹⁰
- In 2018, 10.7 million American adults seriously thought about suicide, 3.3 million made a plan, and 1.4 million attempted suicide.¹¹

Drug Addiction

- Almost 21 million Americans have at least one addiction, yet only 10% of them receive treatment.¹³
- Drug overdose deaths have more than tripled since 1990.¹³

Sexual Assault & Domestic Violence

- In a national study of college women who had experienced rape or attempted rape, only 5% reported the incident to law enforcement, citing that they did not want others to know, feared hostility from the police, feared reprisal from the assailant, or did not know how to report.¹⁶
- 1 in 3 women have been a victim of either an attempted or completed rape in her lifetime.¹⁷
- About 25% of women experience intimate partner violence over their lifetimes, however, it is thought that 50% of domestic violence assaults go unreported.¹⁸

Several studies have found an association between greater availability of mental health care and reduced rates of suicide.¹²



How Important is Time: The Houston Study

- Interviewed 153 survivors of nearly-lethal suicide attempts, aged 13-34.
- Asked, “*How much time passed between the time you decided to complete suicide and when you actually attempted suicide?*”
- 24% said less than 5 minutes
- 24% said 5-19 minutes
- 23% said 20 minutes to 1 hour
- 16% said 2-8 hours
- 13% said 1 or more days.¹⁴

Time is critical. Help needs to be immediate and easily accessible.

What does this all mean?

- Time is limited
- These issues affect everyone
- Too many people never reach out for help

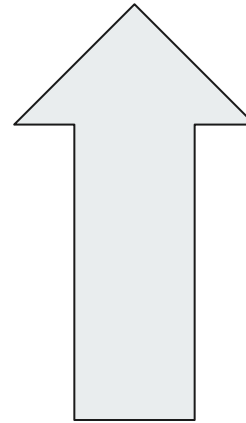
SEXUAL ASSAULT: survivor stats



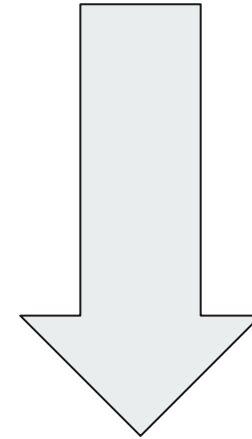
Females ages 16-19 are **4x more likely** than the general population to be victims of rape, attempted rape or sexual assault.



Source: Rape, Abuse & Incest National Network



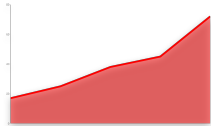
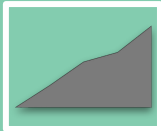
Availability of mental health care



Rates of suicide



Drug overdose deaths
have more than
tripled since **1990**. [13]





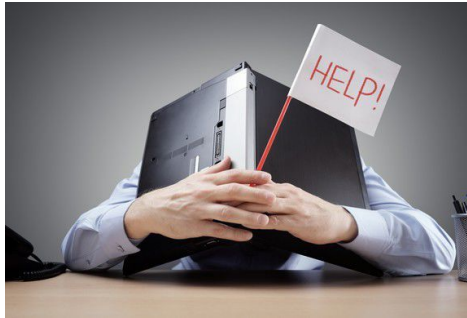
Problem Statement

Users who are going through a traumatic situation have to search and find the resources they need to help them, often taking a lot of time and confusion deciding what resources are right for their situation which can lead to unneeded frustration or giving up.



Problem Characteristics

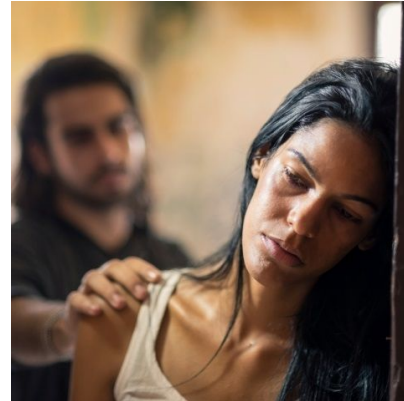
- The process of finding a support service and establishing a connection can take a long time.
- Those who have been through a traumatic event may not be in the right state-of-mind to actively research what type of help is best for their situation.
- Different searches have to be made in order to find national and local help.



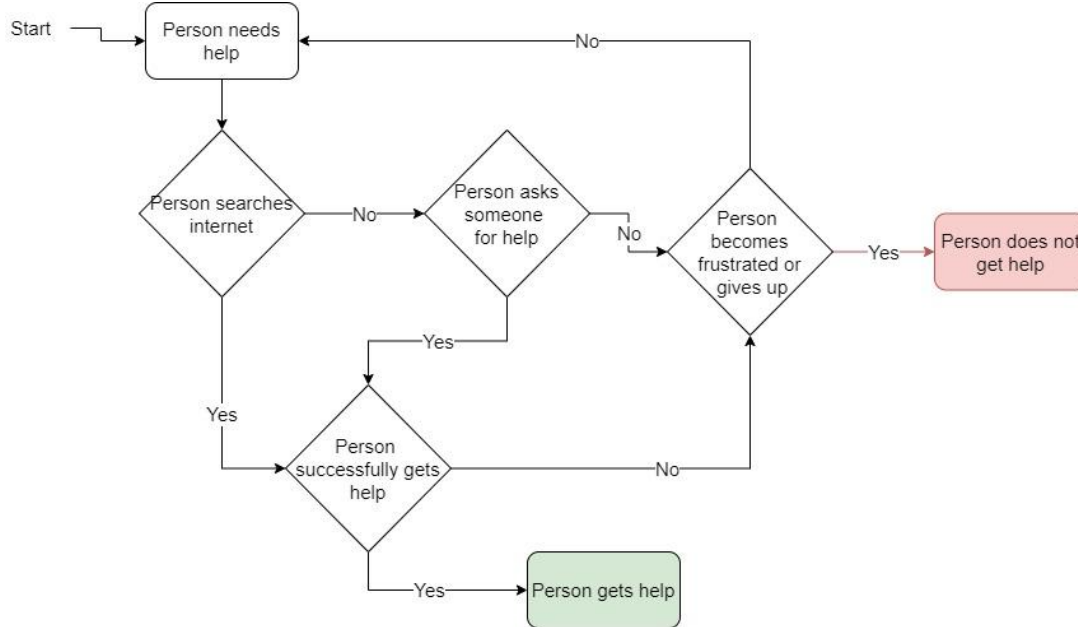
What/Who is affected

This app is targeted towards victims of:

- Sexual Abuse
- Domestic Violence
- LGBTQ+ Abuse
- Suicide
- Substance Abuse
- Teen Dating Abuse
- Friends/Family who know someone dealing with the above



Current Process Flow



- Help could be for self or for loved one
- Can lead to a cycle of not finding help, only exiting when person gets frustrated and gives up.

Solution Statement

Our solution is a mobile application, readily available on an user's device, with the capabilities to quickly direct the user to the resources they may need. These resources will be support hotlines, websites, and shelters or aid nearby.

To make accessing the information easier for users there will be speech recognition or SMS chat to bring the users to the resources they need, or the can use the simple UI to manually select/find the resources needed.

This is necessary for saving users crucial time and making accessibility to help quicker and easier for users.

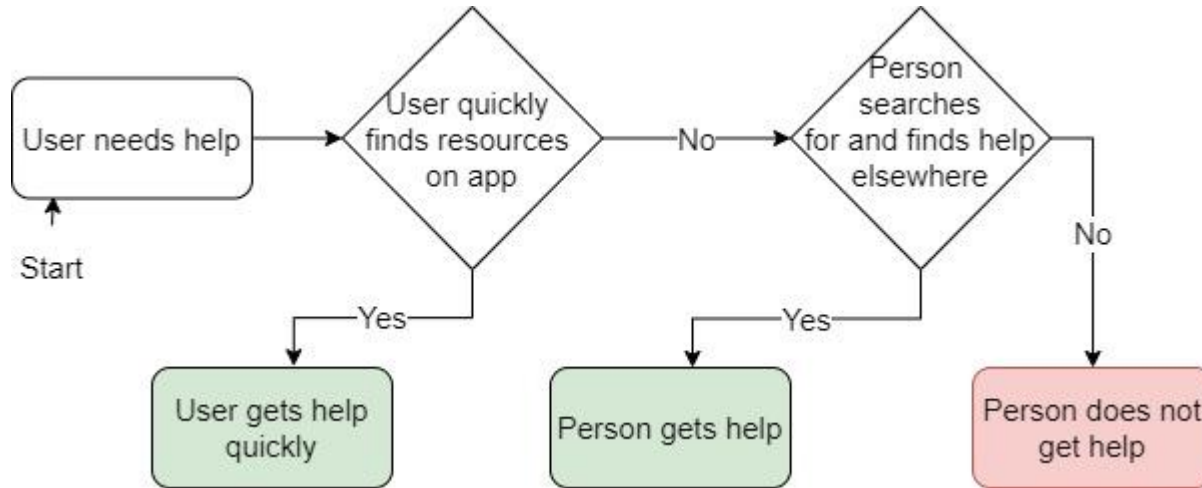


Solution Characteristics

- Quick Navigation
 - a. Topics in the app are organized by category
 - b. Speech recognition feature
 - c. SMS chat box
- Location-Based Aid
 - a. Clickable addresses to nearby locations that provide help (redirects to Google Maps)
- Anonymous
 - a. Name of the app and design will be particular as to not give away contents of the app to protect users



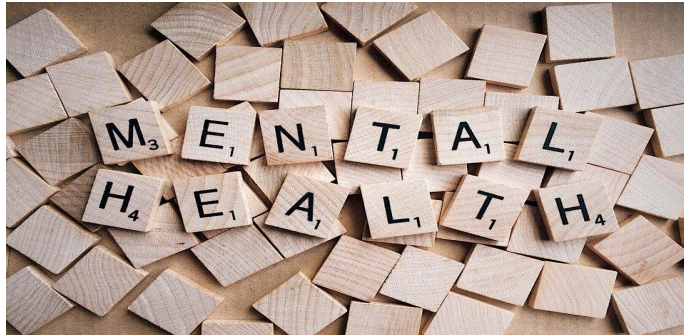
Solution Process Flow



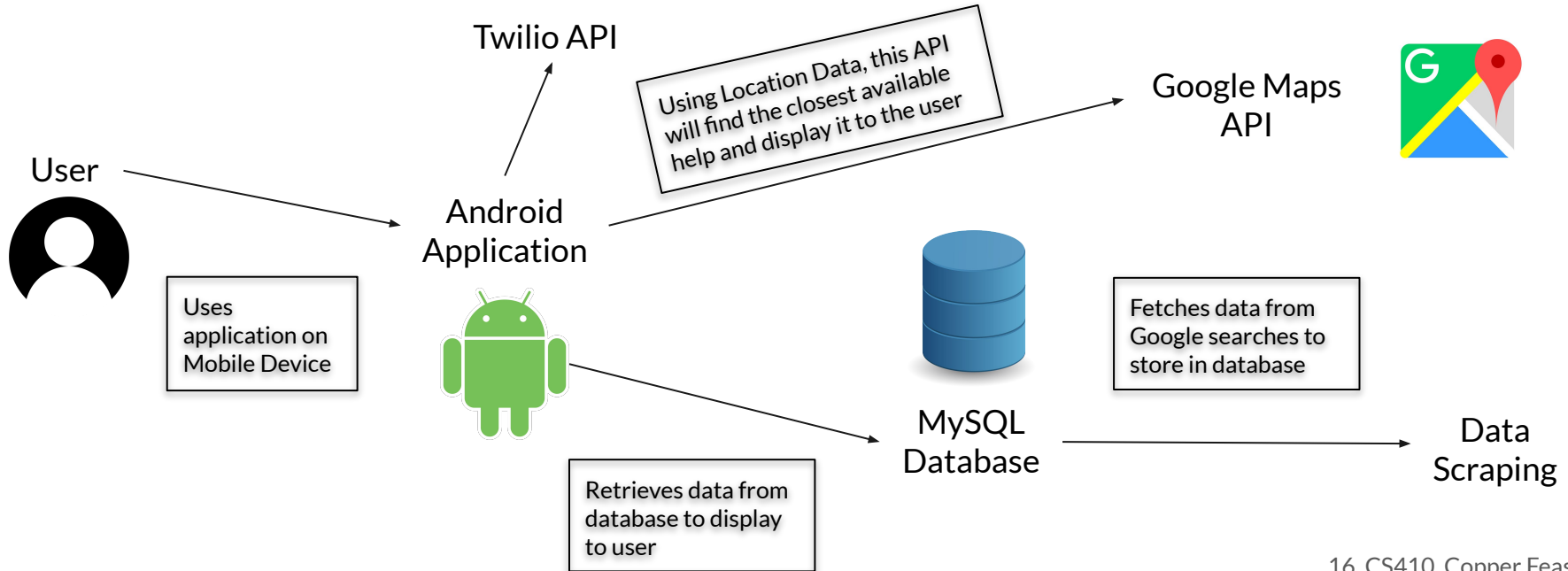
- User may not be able to quickly find the resources on the app if the app is not user friendly or if we do not offer the help they are searching for.
- Transition from User to Person is to highlight the app is no longer in use.

What Our Solution Will Not Do

- Not hosting a hotline, simply connecting the users to the resources that are out there for them.
- This application is not a device to be used in the case of physical life-threatening emergencies, but rather for specific mental health emergencies.
- This application will provide resources for many situations as well as a few resources that are all inclusive, but inevitably there will be some cases that are not accounted for.



Major Functional Component Diagram





Component(or Feature or?) Details

- SMS will be used to bring the user directly to the information they are seeking by using their text. This will be done by <>.
- Speech Recognition will be used to bring the user directly to the information they are seeking by using their words. This will be done by <>.
- Geofencing will be used to locate nearby shelters and safe places. This will be done by <>.

I am considering removing a lot of this information and making it more into speaker notes then only leaving the bold parts on the slide, what do you guys think? Obviously <> is the part that still needs to be filled in.



Customer Risk Mitigation

Probability

Impact

	Rare	Unlikely	Possible	Likely	Almost Certain
Very High	T2	T1			
High	C2				
Medium				C1	
Low					
Very Low					

Customer Risks:

- C1 - Not enabling location data on phone and being unable to access certain features.
- C2 - No internet access available

Mitigation:

- C1 - The app will check if user has Location enabled and if not, will ask them to enable it with a pop-up box when using the app.
- C2 - Certain information on app will not require internet access to use

Technical Risk Mitigation

		Probability				
		Rare	Unlikely	Possible	Likely	Almost Certain
Impact	Very High	T2	T1			
	High	C2				
	Medium				C1	
	Low					
	Very Low					

Technical Risks:

- T1 - Database could be wiped in a cyber attack.
- T2 - Database information is maliciously edited in cyber attack.

Mitigation:

- T1 - Database is backed up on a regular basis.
- T2 - Database will be encrypted and access will be limited by IP Address

Market Assessment

Copper Team		 Care Corner	 Suicide Safety Plan	 Aspire News	 Seeking Shelter
Designed for	Victims	✓	✓	✓	✓
	Those Assisting Victims	✓	✗	✓	✓
GPS Locates Local:	Shelters	✓	✗	✗	✓
	Counselors/Clinics	✓	✓	✗	✗
	Phone/email contact	✓	✓	✗	✓
Non-local Counselor/Resources contact offered via	Phone	✓	✓	✓	✗
	SMS	✓	✗	✗	✗
	Email	✓	✗	✓	✗
	Websites	✓	✗	✓	✗

The benefits to the customer base will be the inclusion of an SMS system to guide the user in getting the help they need as well as offering everything the competition does, but all in one application.

Conclusion

Care Corner is a resource tool set to bridge the gap between trauma victims and their available resources.

- ❖ Key Characteristics
 - Reliable
 - Efficient
- ❖ Utilizes
 - Speech recognition
 - SMS chatbox





Questions?



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SEXUAL ASSAULT: survivor stats



As of 1998 an estimated
17.7 MILLION
women in the US had
been victims of attempted
or completed rape.

→ **90%** of adult
rape victims are
FEMALE



Only **344** out of every **1000** sexual assaults are reported to the police.
That means about **2 in 3** go unreported.

Females ages 16-19 are
4x more likely
than the general
population to be victims
of rape, attempted rape
or sexual assault.



EVERY
98
SECONDS
an American is
SEXUALLY ASSAULTED

Source: Rape, Abuse & Incest National Network

The National Domestic Violence
HOTLINE


1.800.799.SAFE (7233) • 1.800.787.3224 (TTY)

EMPOWER



the Scared
the Silent
the Abused

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5. Staff, Psyche Central. “Common Hotline Phone Numbers.” Psych Central, 6 Mar. 2019, psychcentral.com/lib/common-hotline-phone-numbers/.
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8. Jain, A. (2019, April 09). Database Hacking & Its Prevention. Retrieved October 07, 2020, from <https://theycybersecurityplace.com/database-hacking-its-prevention/>
9. ...

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- Title (**Fix**)
 - TOC (**Fix once presentation is complete**)
 - The Team (**Good**)
 - Background (**Done**)
 - Problem Statement (**Fix/Create**)
 - Problem Characteristics (**Fix/Create**)
 - Who is affected (**Create**)
 - Current Process Flow (**Good/Look over**)
 - Solution Statement (**Done**)
 - Solution Characteristics (**Done**)
 - Solution Process Flow (**Good/Look over**)
 - Major Functional Component Diagram (**Done**)
 - What our solution will not do (**Done**)
 - Risks: Matrix (**Done**)
 - Risks: Mitigation (**Done**)
 - Market Assessment (**Done**)
 - Conclusion (**Create**)
 - References (**Good once pictures are removed**)

TO DO!!!