Support System

Sirihaasa Nallamothu

Video: https://youtu.be/F6WlCVCMaVE

Introduction

Every 92 seconds, a woman is sexually assaulted.

Women everywhere face harassment, sexual abuse, domestic violence, threats, and discrimination no matter where they go. Whether it be a work environment or even at home, a woman can be subject to any of these horrid items. When I found out about this I was shocked that these statistics were true, and I knew that I had to help. This year, I chose the topic **'A Safer World'**, and decided to focus on the subtopic **'A Safer World For Womankind'**. There are many types of technologies out there to protect women. I have noticed that most of these technologies are often impractical in a dangerous situation. The safety apps I looked at were frequently for a particular city and do not benefit women outside of that city. Many of these apps do not offer all the safety and protection an independent woman needs. These apps only provide temporary protection and do not cover the wide berth of problems a woman may face. For example, many of these apps do not include instant access to domestic violence, rape, or sexual assault hotlines. These apps only incorporate access to an emergency contact. Not only do women everywhere need immediate access to an emergency contact, to call them, text them, send their current location with longitude and latitude, or even to take pictures if they are in a dangerous situation, they also need access to suicide hotlines, and abuse hotlines. A woman also needs support from others who are going through the same thing. We need an easy way of self-defense. We need an accurate system to rely on every day, both for emotional, and physical support. In essence, they need a **Support System**. The app I designed [**Support System]** has an abundance of advantages in everyday scenarios and even in dangerous scenarios. I aim to offer the best protection and support to any girl or woman out there. **Support System** has 3 emergency screens. The first emergency screen is the general emergency screen. This screen can be used by anybody, even people who do not have an account with **Support System**. The general emergency screen benefits the user the most when they have an account. The screen can be used to access to a support hotline for suicide, depression, or rape, report sexual violence/assault, call or text an emergency contact (Only if you have an account), and even to text 9-1-1. This screen can also be used to send your location and a picture of your surroundings to an emergency contact. The second emergency screen is for those who have an account with **Support System**. This screen is a natural disaster screen. The Natural disaster screen can be used if there is a first aid need, a hailstorm, winter storm, dust storm, a Red Cross need, and more. This screen is essential for any natural disaster needs a person may have. The last emergency screen that is featured in this app is the Personal Emergency screen. This screen is exclusively for women with **Support System** Accounts. The Personal Emergency screen can be used to send automated and customized texts to an emergency contact. The user can customize texts for different personal emergencies. Not only does **Support System**, offer 3 emergency screens, this app also features a profile screen, a community screen (where you can connect with others), an inspirational quotes screen, and a Girl Power Screen.

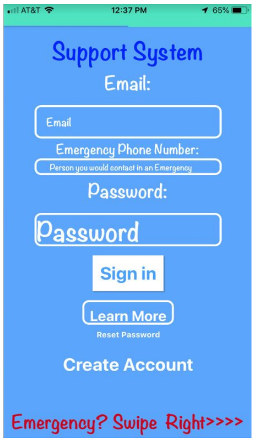
My app aims to improve the everyday lives of women and girls. After all, women everywhere need a **Support System**.

Technology Summary

I built **Support System** through a coding platform called Thunkable. **Support System** works on both IOS and Android devices.

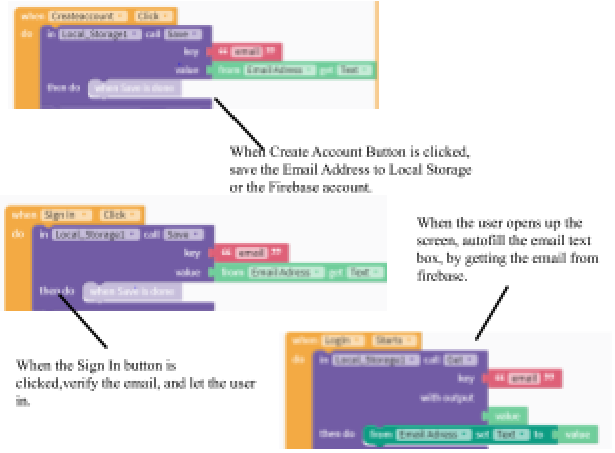
When the user first opens up the **Support System** App, they are greeted with the Sign In screen.[To see a more detailed diagram of the sign in screen please refer to the appendix][1]

It is best for a user to have a **Support System** Account if they want all of the features on the app to work.



The Sign In screen stores the User's Email, Password and Emergency Phone number, in a database, and authentication application called Firebase.[For more information on how the authentication works please refer to the appendix][2]

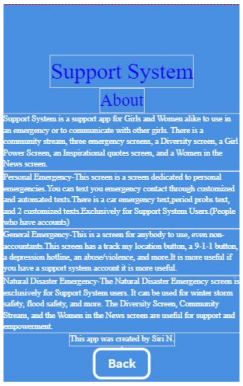
The code for the sign in screen is lengthy. The code below is an example of how the Email gets saved to the Firebase account.If the user clicks create account,an account is created and created in Firebase. The 'Learn More' screen leads to the screen below.[To see the full code and explanation please refer to the appendix][3]


when Createaccount Click
do in Local_Storage1 call Save
key "email"
value from Email Adress get Text
then do when Save is done
when Sign In Click
do in Local_Storage1 call Save
key "email"
value from Email Adress get Text
then do when Save is done
when Login Starts
do in Local_Storage1 call Get
key "email"
with output
value
then do from Email Adress set Text to value

When Create Account Button is clicked, save the Email Address to Local Storage or the Firebase account.

When the user opens up the screen, autofill the email text box, by getting the email from firebase.

When the Sign In button is clicked,verify the email, and let the user in.



Support System

About

Support System is a support app for Girls and Women alike to use in an emergency or to communicate with other girls. There is a community stream, three emergency screens, a Diversity screen, a Girl Power Screen, an Inspirational quotes screen, and a Women in the News screen.

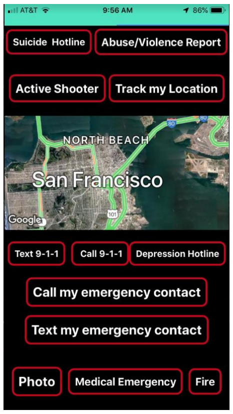
Personal Emergency-This screen is a screen dedicated to personal emergencies.You can text you emergency contact through customized and automated texts.There is a car emergency text,period probs text, and 2 customized texts.Exclusively for Support System Users.(People who have accounts)

General Emergency-This is a screen for anybody to use, even non-accountants.This screen has a track my location button, a 9-1-1 button, a depression hotline, an abuse/violence, and more.It is more useful if you have a support system account it is more useful.

Natural Disaster Emergency-The Natural Disaster Emergency screen is exclusively for Support System users. It can be used for winter storm safety, flood safety, and more. The Diversity Screen, Community Stream, and the Women in the News screen are useful for support and empowerment.

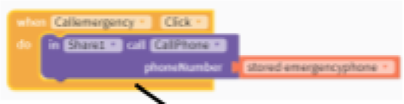
This app was created by Siri N.

If the user is in a dangerous situation or needs immediate access to help, she can just swipe right. Once the user swipes right, they are greeted by the General Emergency. Once the user clicks any of the help buttons it immediately acts. If the user clicks the 'Suicide Hotline button' then it directly calls the suicide hotline and leads the user to a separate webpage with more information about suicide and how to get help.[To see a detailed diagram of the general emergency screen, please refer to the appendix][4]



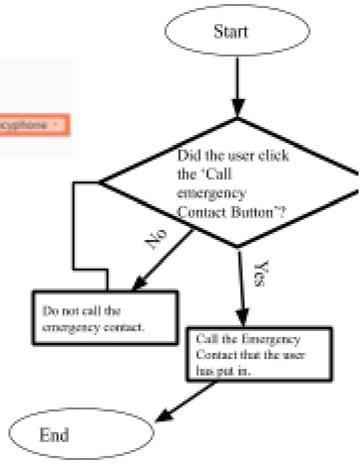
This screen requires a lot of programming to fully function. I used many flowcharts and algorithms to program the buttons. Below, is an example of the code I used to program the 'Track my location button' and the 'Call my emergency contact button'. [To see a detailed diagram of the code for the General Emergency Screen please refer to the appendix] [5]

Call Emergency Contact

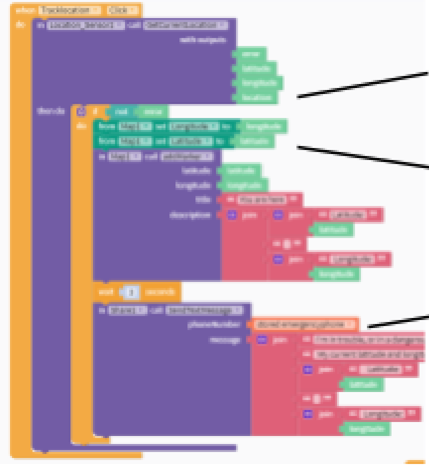


```
when Callemergency .Click
do  in Share1 call CallPhone
                  phoneNumber  stored emergencyphone
```

This is the code for the 'Call Emergency Contact Button'. When the button is clicked, the program opens up 'Share1' and calls the stored emergency contact number.


Start
Did the user click the 'Call emergency Contact Button'?
No
Yes
Do not call the emergency contact.
Call the Emergency Contact that the user has put in.
End

'Track my location' code



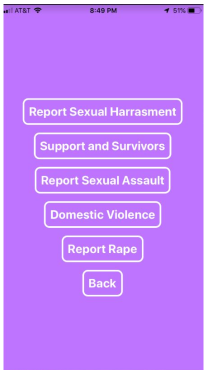
```
when TrackLocation .Click
do  in Location_Sensor1 call GetCurrentLocation
        with outputs
            error
            latitude
            longitude
            location
    then do  if not error
             do  [illegible]
```

When the 'Track location' button is clicked start the location sensor, with longitude and latitude.

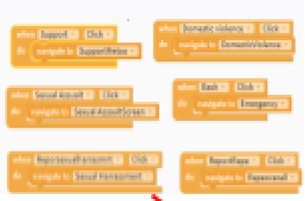
Start 'Map 1' or the map on the screen. Input the pin point were the user is and title it 'You are here'.

When the longitude and longitude is known, send it to the stored emergency contact.

When the user clicks the 'Abuse/Violence Report' button, they are immediately directed to a separate screen; The 'Abuse/Violence Screen'. This screen allows and prepares the user to seek help and receive support for sexual assault, violence, rape, and more. This screen allows users to be more informed on sexual violence, and access to support from other survivors.[For a more detailed diagram on the 'Abuse/Violence Screen' please refer to the appendix] [6]



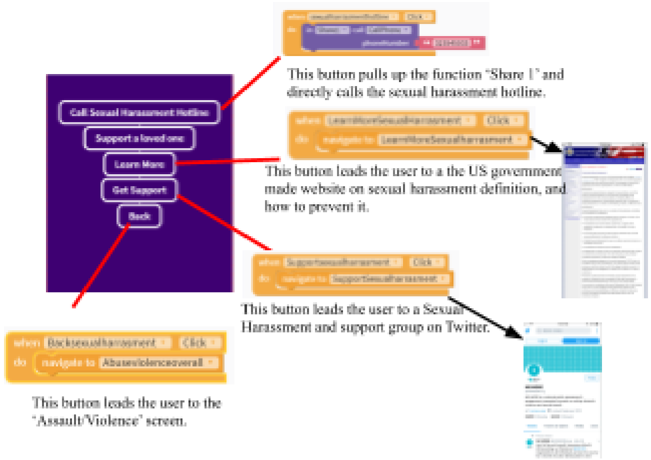
This screen used minimal coding to function, as many of these buttons lead to other screens. The explanation and examples of code in this screen are provided below.



```
when Support .Click
do  navigate to [illegible]

when Domestic violence .Click
do  navigate to DomesticViolence

when Sexual Assault .Click
do  navigate to SexualAssaultScreen

when Back .Click
do  navigate to Emergency

when [illegible] .Click
do  navigate to Sexual Harrassment

when ReportRape .Click
do  navigate to [illegible]
```

This screen mainly has 'navigate to the next screen' code. Once the button is pressed the app directs the user to the programmed screen.

When the ‘Report Sexual Harassment’ button is clicked, it goes to the Sexual Harassment Screen. This screen has many buttons that allow the user to call a harassment hotline, learn more about the topic, get support, or learn how to support a loved one.[An example of this screen and its code is provided below.] Similarly, when all of the buttons are clicked, they lead to separate screens. [For more information about the separate screens that the buttons lead too, please refer to the appendix.][7]


Call Sexual Harassment Hotline
Support a loved one
Learn More
Get Support
Back
when LearnMoreSexualHarassment Click
do navigate to LearnMoreSexualharrasment
when SupportsexualHarrasment Click
do navigate to SupportSexualHarrasment
when Backsexualharrasment Click
do navigate to Abuseviolenceoverall

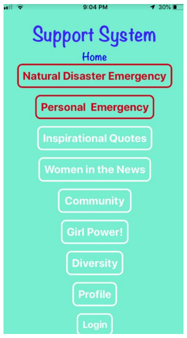
This button pulls up the function "Share 1" and directly calls the sexual harassment hotline.

This button leads the user to a the US government made website on sexual harassment definition, and how to prevent it.

This button leads the user to a Sexual Harassment and support group on Twitter.

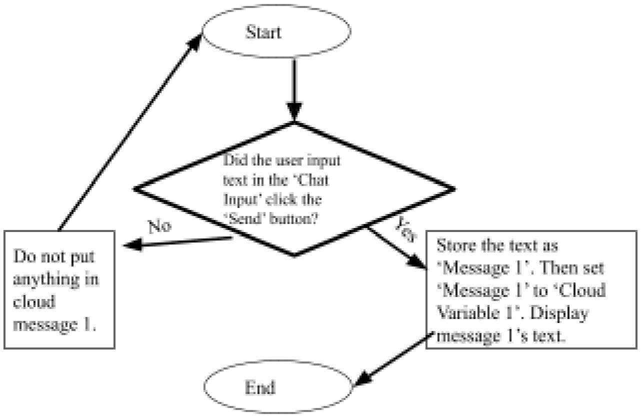
This button leads the user to the 'Assault/Violence' screen.

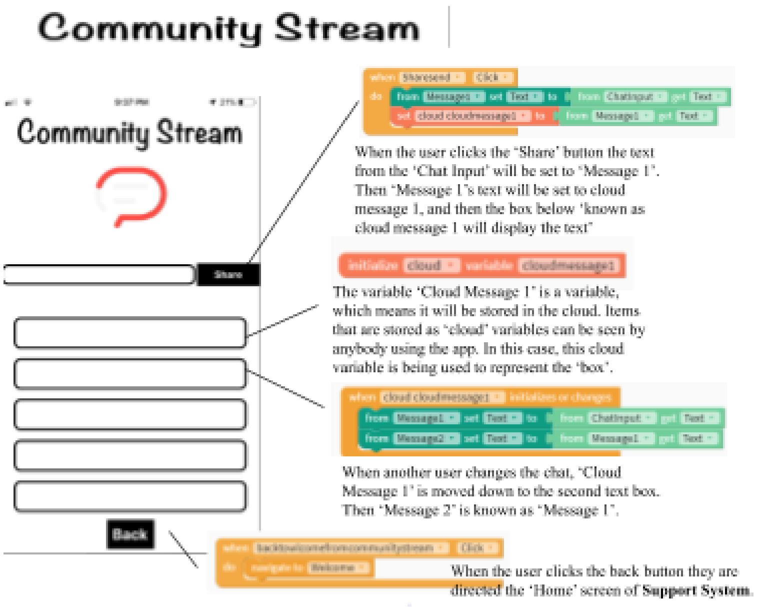
When the user clicks the ‘Sign In’ button on the login page, the app will only let the user in if they have the right credentials; the email, password, and emergency phone number. Once the user signs into the app, they are met with the ‘Home’ screen of **Support System**. This screen features a ‘Personal Emergency’ screen a ‘Natural Disaster Emergency’ screen, a ‘Community Stream’ screen and much more. This screen is very useful and is exclusively for **Support System** users. This screen required a lot of coding to fully function. Below I will explain every screen that these buttons lead to. [To see a more detailed diagram of the 'Home' screen please refer to the appendix][8]



Every single button on this screen leads to a separate and intricate screen. Below is an example, code, and explanation of the ‘Community Stream’, ‘Girl Power’ and ‘Profile’ screen. This screen required an abundance of coding and variables. Below I will explain the code. [To see a more detailed diagram, code, and explanation of every screen each of these buttons lead to, please see the appendix. The ‘Community Stream’ and ‘Profile’ screen will also be included.][9]

The ‘Community Stream’ screen allows the user to express her feelings on any topic they want, anonymously. Inappropriate posts are flagged and taken down.


Start
Did the user input text in the 'Chat Input' click the 'Send' button?
No
Yes
Do not put anything in cloud message 1.
Store the text as 'Message 1'. Then set 'Message 1' to 'Cloud Variable 1'. Display message 1's text.
End



```
when Sharesend . Click
do from Message1 set Text to from ChatInput get Text
   set cloud cloudmessage1 to from Message1 get Text
```

When the user clicks the 'Share' button the text from the 'Chat Input' will be set to 'Message 1'. Then 'Message 1''s text will be set to cloud message 1, and then the box below 'known as cloud message 1 will display the text'

```
initialize cloud variable cloudmessage1
```

The variable 'Cloud Message 1' is a variable, which means it will be stored in the cloud. Items that are stored as 'cloud' variables can be seen by anybody using the app. In this case, this cloud variable is being used to represent the 'box'.

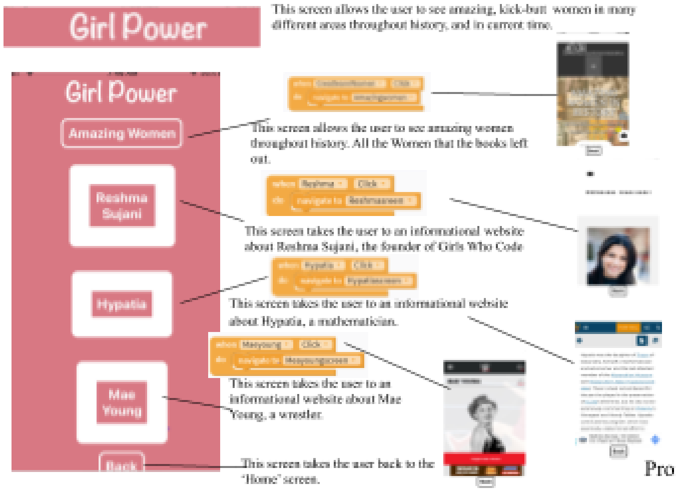
```
when cloud cloudmessage1 initializes or changes
   from Message1 set Text to from ChatInput get Text
   from Message2 set Text to from Message1 get Text
```

When another user changes the chat, 'Cloud Message 1' is moved down to the second text box. Then 'Message 2' is known as 'Message 1'.

```
when backtowelcomefromcommunitystream . Click
do navigate to Welcome
```

When the user clicks the back button they are directed the 'Home' screen of **Support System**.

This screen is the 'Girl Power' screen. This screen aims to teach girls, of all ages, about the amazing kick-butt women in history and encourages girls to be inspired by them. The women on this screen are amazing and interesting.



This screen allows the user to see amazing, kick-butt women in many different areas throughout history, and in current time.

```
when GoodtoomNomen . Click
do navigate to amazingwomen
```

This screen allows the user to see amazing women throughout history. All the Women that the books left out.

```
when Reshma . Click
do navigate to Reshmascreen
```

This screen takes the user to an informational website about Reshma Sujani, the founder of Girls Who Code

```
when Hypatia . Click
do navigate to Hypatiascreen
```

This screen takes the user to an informational website about Hypatia, a mathematician.

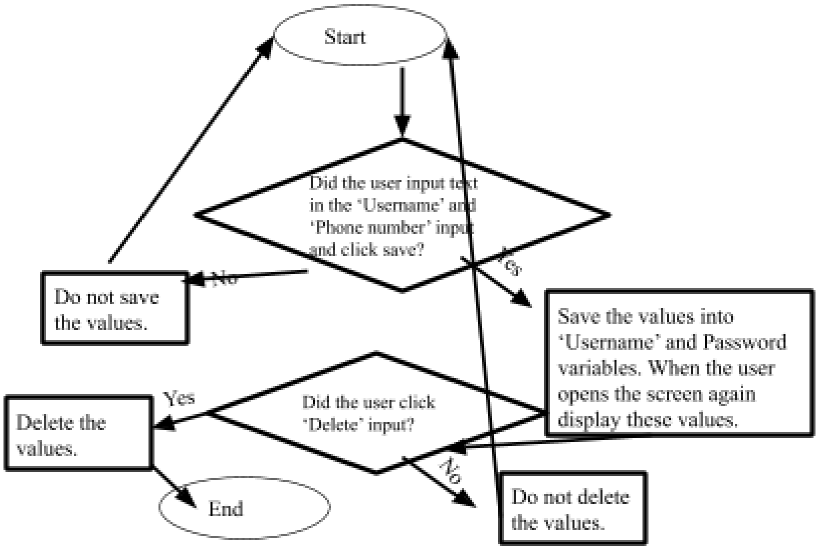
```
when Maeyoung . Click
do navigate to Maeyoungscreen
```

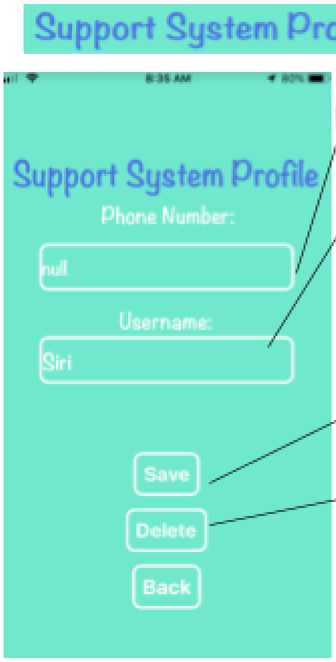
This screen takes the user to an informational website about Mae Young, a wrestler.

This screen takes the user back to the 'Home' screen.

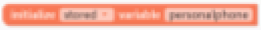
Profile screen

This screen is the 'Profile' screen. This screen allows the user to customize their username and allows them to input their phone number. They can save, delete, and go back to the home page with this screen.


Start
Did the user input text in the 'Username' and 'Phone number' input and click save?
No
Yes
Do not save the values.
Save the values into 'Username' and Password variables. When the user opens the screen again display these values.
Did the user click 'Delete' input?
Yes
No
Delete the values.
Do not delete the values.
End

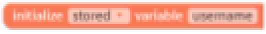


This screen allows the user to customize their username and input their own phone number.

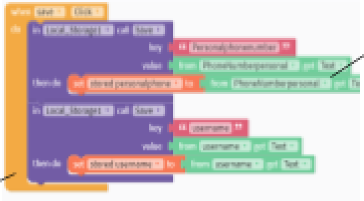


```
initialize stored variable personalphone
```

These variables are stored in the app, and they are the phone number and username.

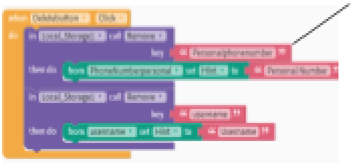


```
initialize stored variable username
```



```
when save . Click
do  in Local_Storage1 call Save
                key "Personalphonenumber"
              value from PhoneNumberpersonal get Text
    then do set stored personalphone to from PhoneNumberpersonal get Text
    in Local_Storage1 call Save
                key "username"
              value from username get Text
    then do set stored username to from username get Text
```

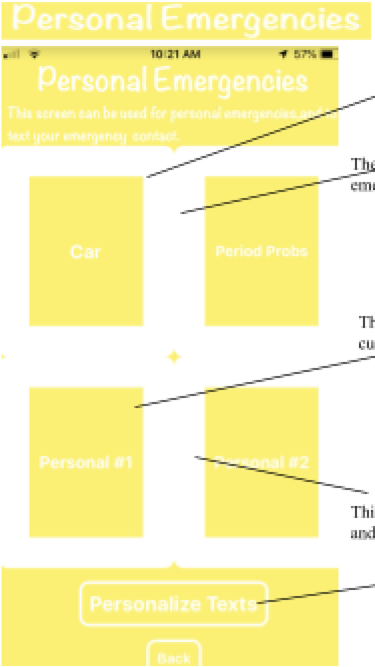
When the save button is clicked the input is saved in 'Local Storage', with certain keys to pull the value back up. When the user reopens the screen, they will see their data and valued.



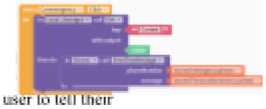
```
when Deletebutton . Click
do  in Local_Storage1 call Remove
                key "Personalphonenumber"
    then do from PhoneNumberpersonal set Hint to "Personal Number"
    in Local_Storage1 call Remove
                key "username"
    then do from username set Hint to "Username"
```

When the delete button is clicked, local storage deletes their info.

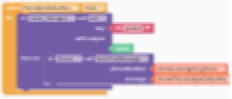
The 'Personal Emergency' screen is perhaps the most intricate and complicated screen on the 'Home' page. The 'Personal Emergency' screen allows the user to customize and personalize automated texts. There are 4 options for an automated text. The 'Car' text allows the user to send their emergency contact the exact car they are and their destination. The 'Period Probs' button allows the user to send their emergency contact private information about mishaps. There are 2 buttons that allow you to personalize your texts. If the user clicks the 'Personalize Texts' they are led to a separate screen where they can type in and save their texts. Below is the 'Personal Emergency screen' and the 'Personalize Texts' screen. The code is explained in intricate detail.



This is the 'Car' emergency text. This text can be personalized on a seperate screen. This text is directly sent to the emergency contact, and it is meant to tell the user about what car they are in.

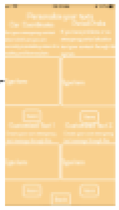


The 'Period Probs' button allows the user to tell their emergency contact about any personal problems they have.

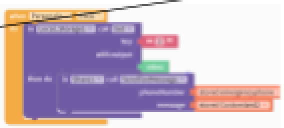


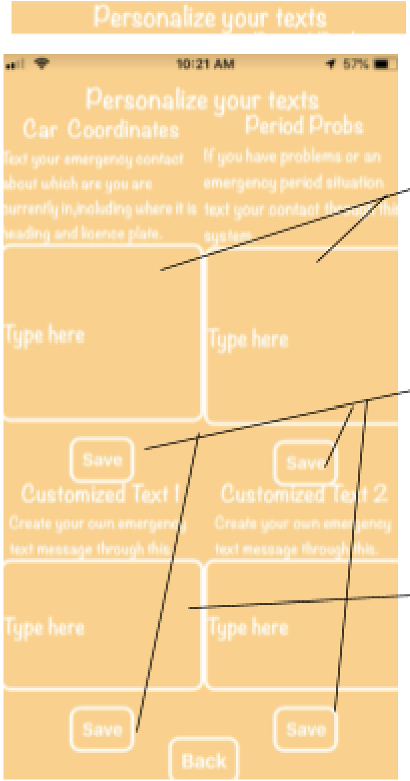
This is the 'Personal #1' text, the user can personalize and customize their text.

The Next Screen, to personalize your texts.



This is the 'Personal #2' text, the user can personalize and customize their text.





Personalize your texts

10:21 AM 57%

Personalize your texts

Car Coordinates

Text your emergency contact about which are you are currently in,including where it is heading and licence plate.

Period Probs

If you have problems or an emergency period situation text your contact through this system.

Type here

Type here

Save

Save

Customized Text 1

Create your own emergency text message through this.

Customized Text 2

Create your own emergency text message through this.

Type here

Type here

Save

Save

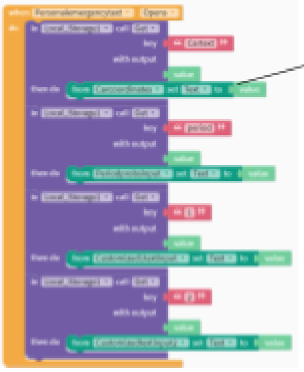
Back

This is a very important screen,where the user can personalize their texts. I will explain what each fun will explain the code on a seperate screen.

The user can input their personal text about car or 'Period Probs' coordinates in this box. It can be a fill in the blank text or more.

The user can save their text by clicking this button. It is automatically stored in the app, and saved as a local storage.

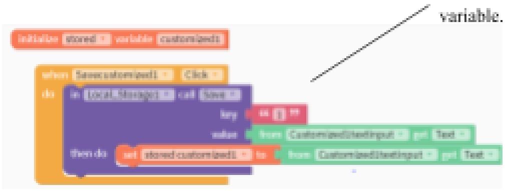
The user can input and customize their own personal text. Once save is clicked it is immediately sent to the button on the 'Send personal Texts screen'.



```
when Personalemergencytext . Opens
do  in Local_Storage1 . call Get
                         key  " [illegible] "
                  with output
                              value
    then do  from Carcoordinates . set Text . to  value
    in Local_Storage1 . call Get
                         key  " period "
                  with output
                              value
    then do  from [illegible] . set Text . to  value
    in Local_Storage1 . call Get
                         key  " 1 "
                  with output
                              value
    then do  from [illegible] . set Text . to  value
    in Local_Storage1 . call Get
                         key  " 2 "
                  with output
                              value
    then do  from [illegible] . set Text . to  value
```

This text allows the user to open up the 'Personal Emergency Customize' screen at any time and access their saved texts. The texts are saved in local storage.

This is a sample code for the variables. When the input is saved it is stored as a customized variable.



```
initialize stored . variable customized1

when Savecustomized1 . Click
do  in Local_Storage1 . call Save
                  key  " 1 "
                value  from Customized1textinput . get Text .
    then do  set stored customized1 . to  from Customized1textinput . get Text .
```

To see more about the personal emergency screen, and the other screens on the 'Home' page, please refer to the appendix.

This app was specifically designed [and fully functional]to meet all the needs of women everywhere. The 'Natural Disaster Emergency' screen, the 'General Emergency' screen, and the 'Personal Emergency' screen are all designed to help the needs of women everywhere. The quick and easy access to personal emergency contacts, natural disaster first aid, and law enforcement. This app also allows for easy access to help and support lines. Depression and Suicide hotlines will help the user. Not only does this app help women everywhere with their personal and general needs, but it also gives them support, inspiration, and hope. The 'Inspirational Quotes' screen and the 'Girl Power' screen are all screens that show girls that they can do anything! They are also great role models. The 'Diversity' screen also shows girls that diversity is accepted everywhere! I truly believe that this app accomplishes the purpose of giving women everywhere a support system. This app will prevent sexual harassment and rape. Every girl will have an amazing back-up plan. I hope that this app will one day change the statistics of sexual assault and rape on women for the better.

Future Updates

There are many future hopes, plans, ideas, and updates, I would love to make to this app.

One of the main updates that I would like to accomplish and complete is adding a special feature.

This special feature will allow the user to click a button called ‘Connect’. Once the user clicks the ‘Connect’ button, it will immediately connect them to anyone within a five-mile radius that is currently in a cellphone conversation. The cellphone conversation will be intercepted by an SOS message. This feature could potentially save lives.

I would also like to potentially add, another emergency screen, to benefit the user.

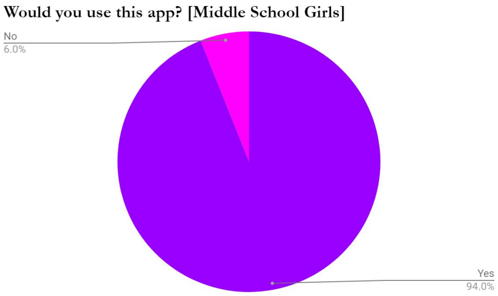
Lastly, a future update that I would love to make is; Improve the ‘CSS’ of my app’s design. I would love to make it a tad bit classier, and user-friendly.

Lastly, I would enjoy uploading this Android and IOS user-friendly app to the Google Play store, and the IOS App store. I would love this.

Results

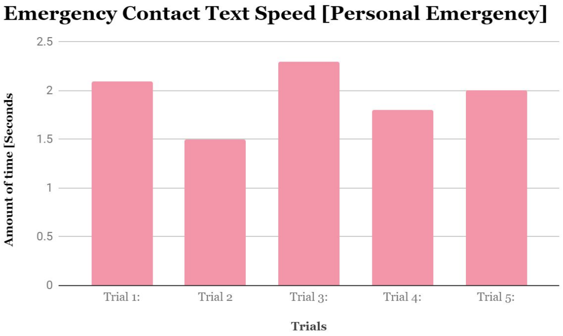
Support System has a lot of data that quantitatively and qualitatively reflects the functions of the apps, along with the public response to the app.

After explaining the purpose of my app, **Support System**, to 50 girls at my middle school, grades 6-8, 47 out of 50 girls[47/50] explicitly stated that they would use **Support System** if it was an app on the Google Play or App Store. Many of those girls also stated that they would use it regularly, and on a daily basis. The high percentage of positive feedback I received on this topic, render's **Support System**, a popular and well-reviewed app to download. To see the data please refer to the pie chart below. [The pie chart can also be found in the appendix][10]

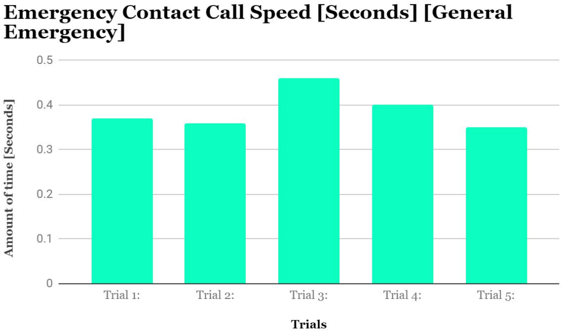


To see an accurate reflection on how quickly my app works in a dangerous situation [whether it be a text, call, photo, or location tracker, to an emergency contact]so, I decided to conduct some tests.

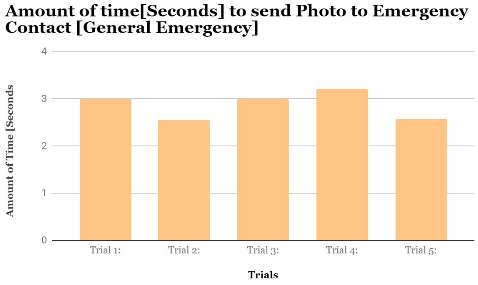
The test below is how fast **Support System** can send automated and customized texts to emergency contact from the 'Personal Emergency' screen. The amount of time is measured in seconds. From the data, it takes an average of 1.94 seconds to send a text the emergency contact through the 'General Emergency' screen. This is remarkably fast.[The bar graph can also be found in the appendix][11]



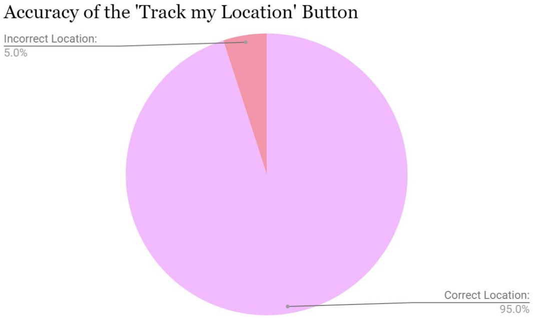
I also tested how long it would take **Support System** to call the user's Emergency Contact from the 'General Emergency' screen. The results were incredibly fast. The average time it takes to send an Emergency call was approximately 0.39 seconds. [The Bar graph can also be seen in the appendix][12]



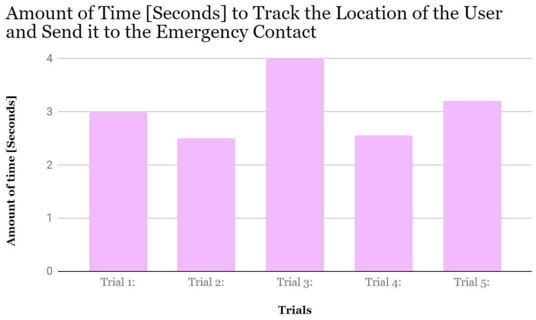
I wanted to see quantitatively how long it would take to send a photo of the user's surroundings to their emergency contact. I tested this 5 times. The average time, in seconds, was 2.9 seconds, which extremely fast, something that this app keeps in high priorities. The user needs to be able to reach their emergency contact extremely quickly. [The bar graph can also be found in the appendix][13]

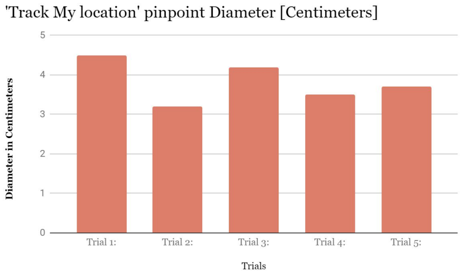


The location sensor, and tracking the location is remarkably accurate. The number of times, the location is correct lies around 95%. This is remarkably accurate.[This Pie chart is also available in the appendix][14]



The amount of time it takes to track and send the location of the user is truly fast. The average time it takes to track the user's location and send it to the Emergency contact is approximately 3.1 seconds. [The bar graph is also available in the appendix][15] The diameter of the pinpoint is also extremely accurate, meaning that the physical location of the user in a certain building is very accurate. [The diameter bar graph is also located in the appendix][16]

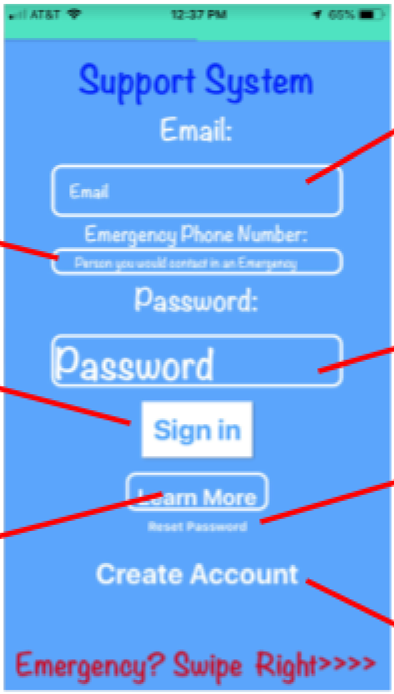




The data from the app positively reflects the progress, functionalities, and capabilities of Support System. This app is extremely useful and will positively impact, inspire and revolutionize the worlds of Girls and Women everywhere.

Appendix

1.The Support System Sign In User Interface [UI]



Email Address input

Emergency Phone Number Input [Person the user would contact in an emergency]

Password input

Sign In button [For users]

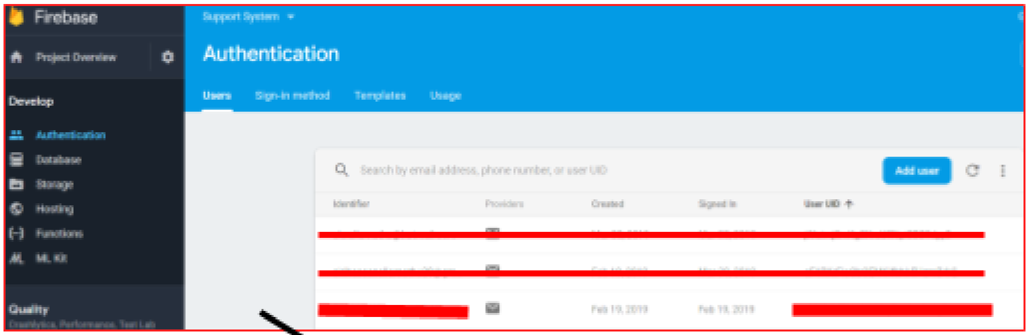
The Password Reset Button sends a reset password form to the user's account.

This button takes you to the 'Learn More' Screen.

Create Account button[When the user clicks this button, it sends an email, to their email address, asking to confirm their sign up.

Note: Once the user has created an account the email,emergency phone Number and password will autofill,for easy access.

2.Firebase API Authentication

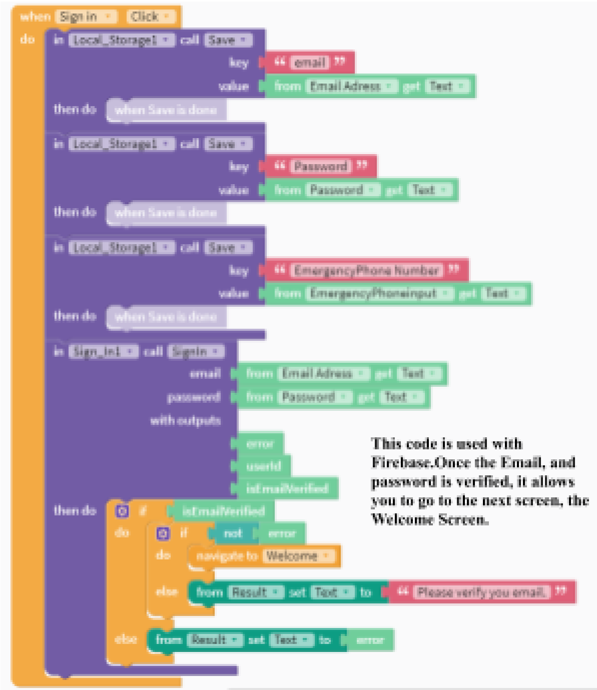


Identifier	Providers	Created	Signed In	User UID ↑
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	✉	Feb 19, 2019	Feb 19, 2019	[redacted]

The Firebase Authentication system is used to store the user's password and email. This is so the sign up is screen can work. The password cannot be seen.

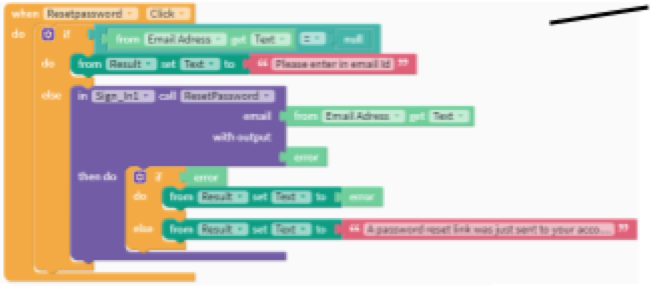
The emails are blotted out for privacy reasons

3. Sign In Screen Code



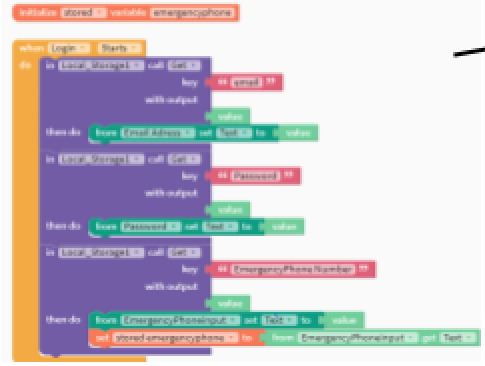
```
when Sign in . Click
do  in Local_Storage1 call Save
                     key  "email"
                   value  from Email Adress get Text
    then do  when Save is done
    in Local_Storage1 call Save
                     key  "Password"
                   value  from Password get Text
    then do  when Save is done
    in Local_Storage1 call Save
                     key  "EmergencyPhone Number"
                   value  from EmergencyPhoneinput get Text
    then do  when Save is done
    in Sign_In1 call SignIn
               email  from Email Adress get Text
            password  from Password get Text
        with outputs
                      error
                      userId
                      isEmailVerified
    then do  if  isEmailVerified
             do  if  not error
                 do  navigate to Welcome
                 else  from Result set Text to "Please verify you email."
             else  from Result set Text to error
```

This code is used with Firebase.Once the Email, and password is verified, it allows you to go to the next screen, the Welcome Screen.



```
when Resetpassword . Click
do  if  from Email Adress get Text = null
    do  from Result set Text to "Please enter in email Id"
    else  in Sign_In1 call ResetPassword
                      email  from Email Adress get Text
                with output
                             error
          then do  if  error
                   do  from Result set Text to error
                   else  from Result set Text to "A password reset link was just sent to your acco..."
```

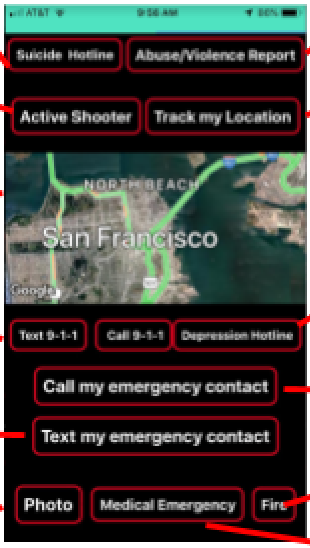
This is the code for the functioning reset password button. If the user clicks this button, a reset password forum through Firebase will be sent.



```
initialize stored variable emergencyphone

when Login . Starts
do  in Local_Storage1 call Get
                     key  "email"
             with output
                          value
    then do  from Email Adress set Text to value
    in Local_Storage1 call Get
                     key  "Password"
             with output
                          value
    then do  from Password set Text to value
    in Local_Storage1 call Get
                     key  "EmergencyPhone Number"
             with output
                          value
    then do  from EmergencyPhoneinput set Text to value
             set stored emergencyphone to from EmergencyPhoneinput get Text
```

This code allows the email password and emergency phone number to autofill, when the user opens up the screen.The Emergency phone number is stored through the variable, which is then set up to go to Firebase.

4.Emergency Screen Advanced



This button immediately directs the user to a suicide hotline. Once the call is finished, the user is directed to a suicide self help website.

The Active Shooter button can be used in case of an Active Shooter. This button immediately calls 911. It also texts your emergency contact, with an automated button.

This the window used to track one's location. The user can see where they are.

The Call 911 and text 911 buttons are both fully functional, and immediately direct the user to help.

This button is fully functional and texts the emergency contact that the user filled out when they were first making their account.

This button allows the user to take photos of their surroundings, and send it to their emergency contact.

This is the abuse/violence report. This button automatically leads you to an abuse/violence screen that allows the user to report sexual abuse, domestic violence, rape, harassment and more. The screen will be further explained in the summary.

The track my location button, not only tracks the user's location, it sends text with the user's exact longitude and latitude to the emergency contact. This feature works best if you have an account.

The Depression Hotline button immediately directs the user to a Depression Hotline.Once the call is finished, the user is directed to a depression information screen.

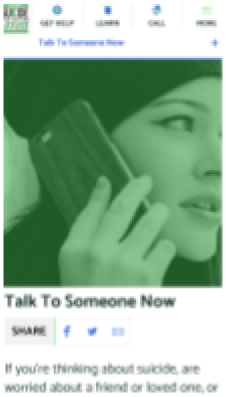
The Call my emergency contact allows the user to easily call their emergency contact.

The 'Fire' button immediately directs the user to a fire safety page, and allows them to call 9-1-1.

The medical emergency screen allows the user to call 9-1-1, and directs the to a Red Cross page.

Note:The General Emergency Screen works best for users that have a support system account. The photo,location, and call/text emergency contact, do not work without an account.

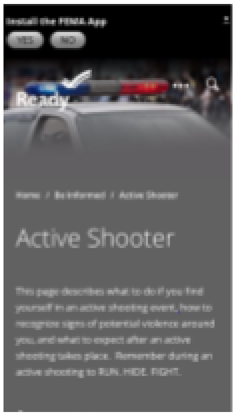
Suicide self help website



Talk To Someone Now

If you're thinking about suicide, are worried about a friend or loved one, or

Active Shooter Screen

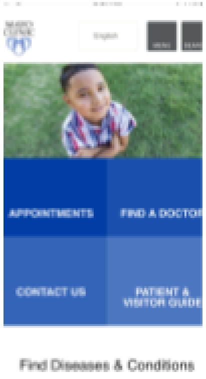


Home / Be Informed / Active Shooter

Active Shooter

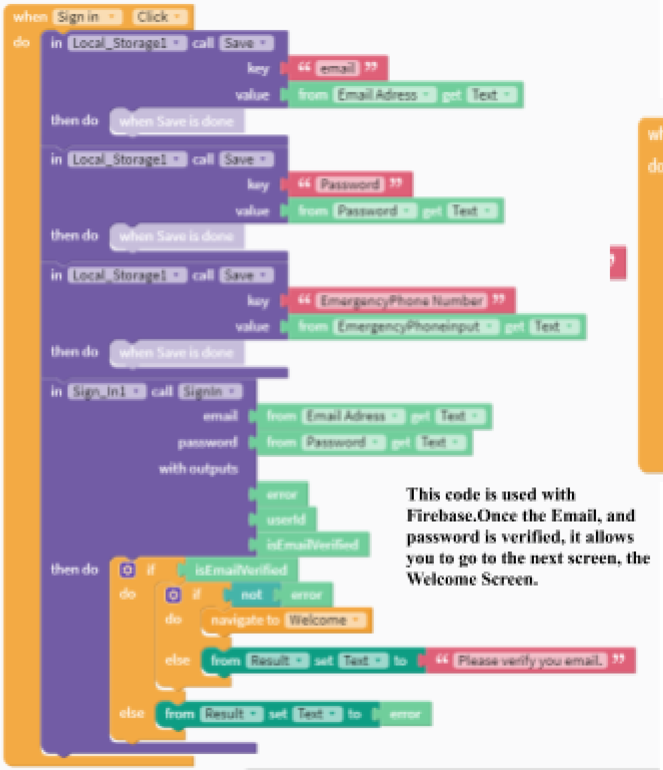
This page describes what to do if you find yourself in an active shooting event, how to recognize signs of potential violence around you, and what to expect after an active shooting takes place. Remember during an active shooting to RUN. HIDE. FIGHT.

Medical emergency screen



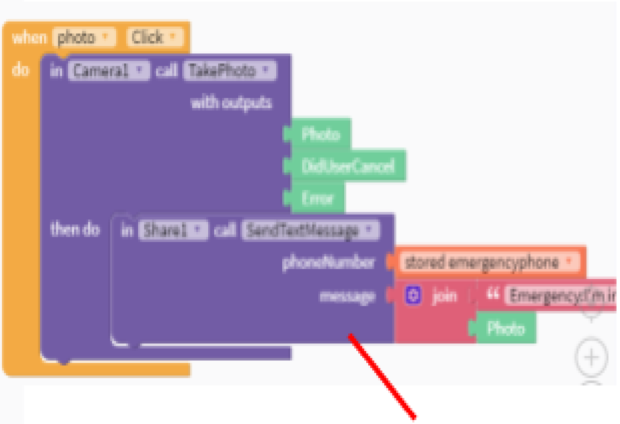
Find Diseases & Conditions

5.Emergency Screen Code



```
when Sign in . Click
do  in Local_Storage1 . call Save
                             key   "email"
                           value   from Email Adress . get Text
    then do  when Save is done
    in Local_Storage1 . call Save
                             key   "Password"
                           value   from Password . get Text
    then do  when Save is done
    in Local_Storage1 . call Save
                             key   "EmergencyPhone Number"
                           value   from EmergencyPhoneinput . get Text
    then do  when Save is done
    in Sign_In1 . call Signin
                       email   from Email Adress . get Text
                    password   from Password . get Text
                with outputs
                               error
                               userId
                               isEmailVerified
    then do  if  isEmailVerified
             do  if  not  error
                 do  navigate to Welcome
                 else  from Result . set Text . to  "Please verify you email."
             else  from Result . set Text . to  error
```

This code is used with Firebase.Once the Email, and password is verified, it allows you to go to the next screen, the Welcome Screen.



```
when photo . Click
do  in Camera1 . call TakePhoto
                 with outputs
                                Photo
                                DidUserCancel
                                Error
    then do  in Share1 . call SendTextMessage
                            phoneNumber   stored emergencyphone
                                message   join  "Emergency!I'm i
                                                Photo
```

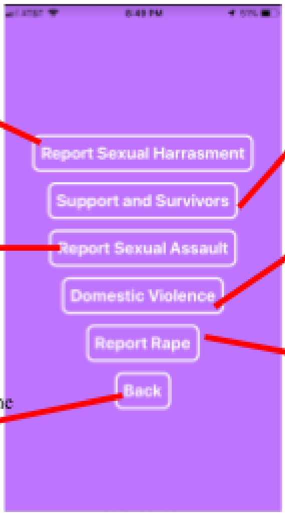
This is the ‘send photo’ button. This button allows the user to send a photo to an emergency contact, along with an emergency message. The photo is taken by the camera in the phone. Once the photo is retrieved it is sent by a text message.

6. Assault/ Violence Screen

The 'Report Sexual Harassment' button takes the user to a seperate screen where the user can;Call a harassment hotline,get adequate support, or learn more about this topic.More information on this screen will be given in the appendix.

The 'Report Sexual Assault' button takes the user to seperate screen where the user can; Call a Sexual Assault hotline, receive support from other survivors, learn how to support a loved one. More information on this screen will be available in the appendix.

The 'Back' button takes the user to the 'General Emergency' Screen.

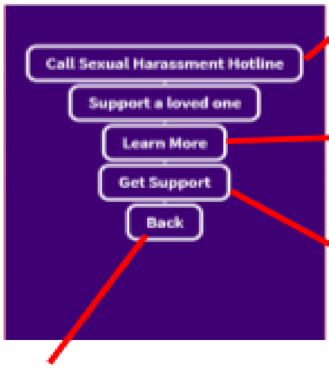


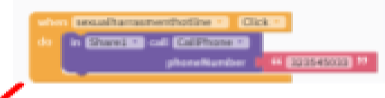
The 'Support and Survivors' button allows the user to go to a twitter page, that has inspirational stories of the #MeToo survivors.

The 'Domestic Violence' the user to seperate screen where the user can; Call a Domestic Violence hotline for immediate help, receive support from other survivors, and to learn how to support a loved one.

The 'Report Rape' button is the most important button of all. This button leads the user to a screen were they can; Call a Rape hotline, learn how to support a loved one, receive support, and learn self defense tactics. This screen is extremely useful.

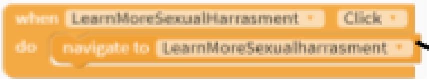
7.The 'Abuse/Violence' screen code,examples, and explanation



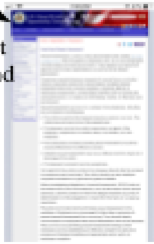


```
when sexualharasmenthotline Click
do  in Share1 call CallPhone
              phoneNumber "[illegible]"
```

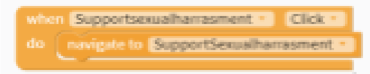
This button pulls up the function 'Share 1' and directly calls the sexual harassment hotline.



```
when LearnMoreSexualHarrasment Click
do  navigate to LearnMoreSexualharrasment
```

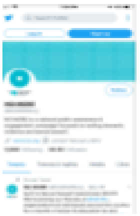


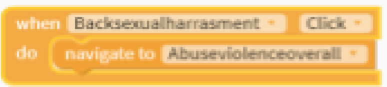
This button leads the user to a the US government made website on sexual harassment definition, and how to prevent it.



```
when Supportsexualharrasment Click
do  navigate to SupportSexualharrasment
```

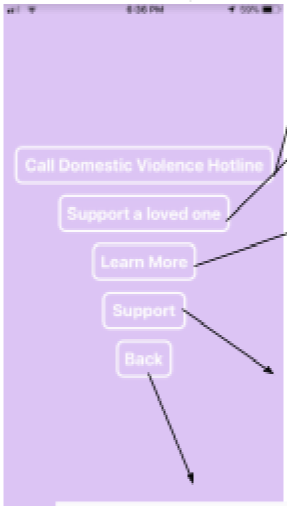
This button leads the user to a Sexual Harassment and support group on Twitter.

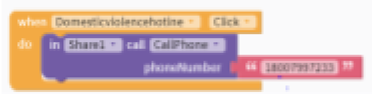




```
when Backsexualharrasment Click
do  navigate to Abuseviolenceoverall
```

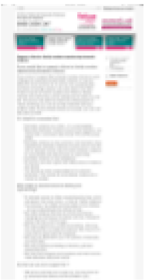
This button leads the user to the 'Assault/Violence' screen.

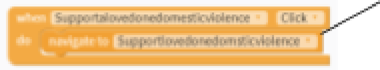




```
when Domesticviolencehotine Click
do  in Share1 call CallPhone
                phoneNumber "18007997233"
```

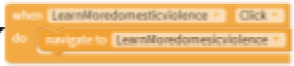
When the user clicks the ‘Call Domestic Violence Hotline’ she is immediately directed to a domestic violence hotline.





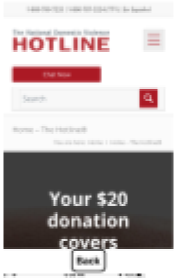
```
when Supportalovedonedomesticviolence Click
do  navigate to Supportlovedonedomsticviolence
```

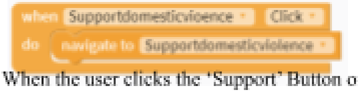
When the user clicks the ‘Support a Loved One’ button she is directed to a website with information on how to support a loved one who has gone through domestic violence.



```
when LearnMoredomesticviolence Click
do  navigate to LearnMoredomesicviolence
```

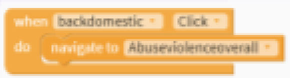
When the user clicks the ‘Learn More’ button is clicked, the user is taken to a website that informs the reader about Domestic Violence.





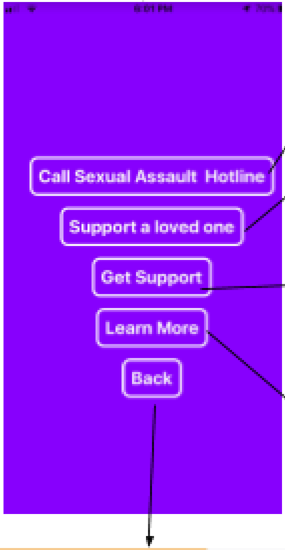
```
when Supportdomesticvioence Click
do  navigate to Supportdomesticviolence
```

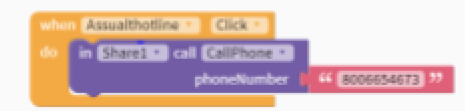
When the user clicks the ‘Support’ Button on the domestic violence screen, they are taken to a twitter page, that has thousands of survivors.



```
when backdomestic Click
do  navigate to Abuseviolenceoverall
```

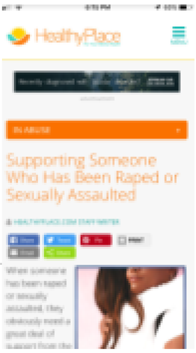
When the user clicks the ‘Back’ button they are taken to the ‘Abuse/Violence’ screen.

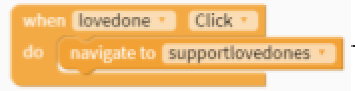




```
when Assualthotline Click
do  in Share1 call CallPhone
                phoneNumber "8006654673"
```

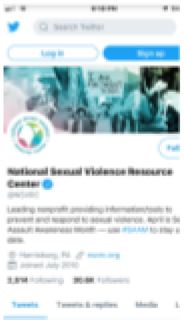
When the user clicks the ‘Call Sexual Assault Hotline’ she is immediately directed to a sexual assault hotline.

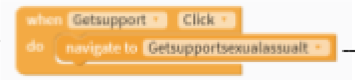

HealthyPlace
IN ABUSE
Supporting Someone Who Has Been Raped or Sexually Assaulted
HEALTHYPLACE.COM STAFF WRITER



```
when lovedone Click
do  navigate to supportlovedones
```

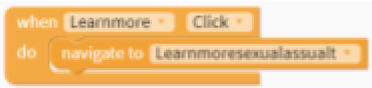
When the user clicks the ‘Support a Loved One’ button they are led to a website that allows the user to read information on this topic.





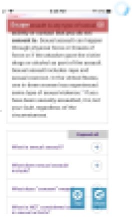
```
when Getsupport Click
do  navigate to Getsupportsexualassualt
```

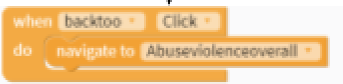
When the user clicks the ‘Get Support’ button, she is directed to a twitter website that has thousands of survivors.



```
when Learnmore Click
do  navigate to Learnmoresexualassualt
```

When the user clicks the ‘Learn More’ button, they are directed to a website that gives the user information on this topic.

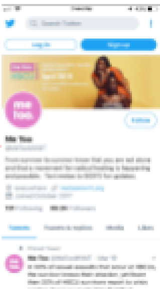


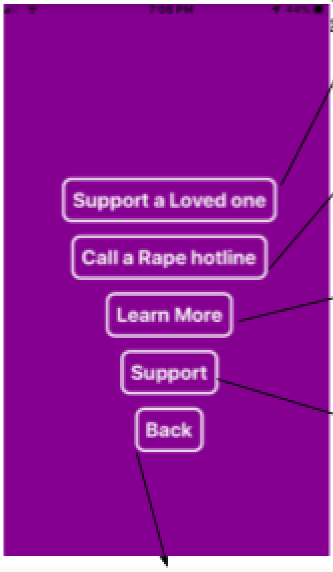


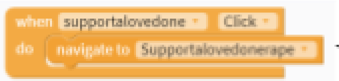
```
when backtoo Click
do  navigate to Abuseviolenceoverall
```

The user is taken back to the ‘Abuse/Violence’ screen.

When the ‘Support and Survivors’ button is clicked the user is directed to a ‘#metoo’ support screen.

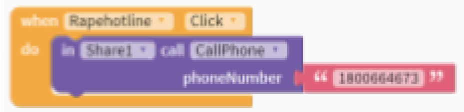






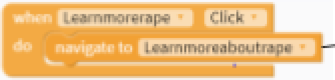
```
when supportalovedone . Click
do   navigate to Supportalovedonerape
```

When the user clicks the ‘Support a Loved One’ button she is immediately directed to a website that gives the user information on how to support a loved one who has gone through rape.



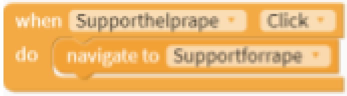
```
when Rapehotline . Click
do   in Share1 call CallPhone
                    phoneNumber " 1800664673 "
```

When the user clicks the ‘Call a Rape Hotline button’ they are immediately directed to a rape hotline.



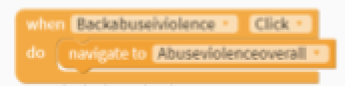
```
when Learnmorerape . Click
do   navigate to Learnmoreaboutrape
```

When the user clicks the ‘Learn More’ button, they are directed to a website that has information about rape.



```
when Supporthelprape . Click
do   navigate to Supportforrape
```

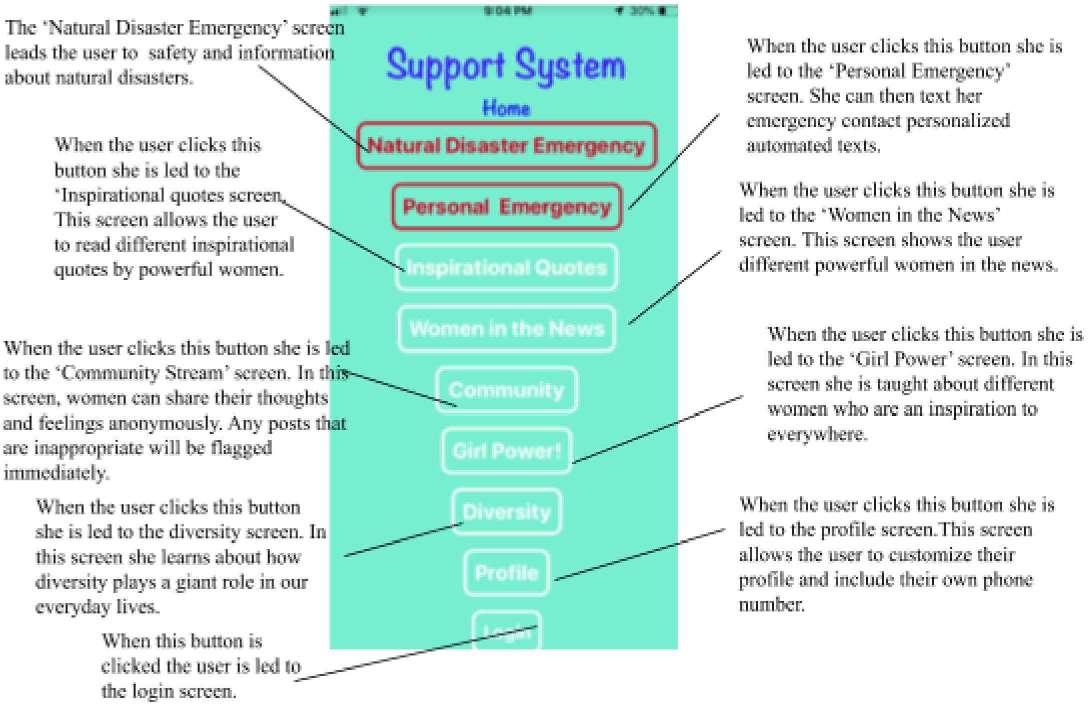
When the user clicks the ‘Support’ button they are immediately directed to a twitter page with thousands of rape survivors supporting each other.



```
when Backabuseivlolence . Click
do   navigate to Abuseviolenceoverall
```

The user is led to the home page.

8. Home page diagram



The 'Natural Disaster Emergency' screen leads the user to safety and information about natural disasters.

When the user clicks this button she is led to the 'Inspirational quotes screen. This screen allows the user to read different inspirational quotes by powerful women.

When the user clicks this button she is led to the 'Community Stream' screen. In this screen, women can share their thoughts and feelings anonymously. Any posts that are inappropriate will be flagged immediately.

When the user clicks this button she is led to the diversity screen. In this screen she learns about how diversity plays a giant role in our everyday lives.

When this button is clicked the user is led to the login screen.

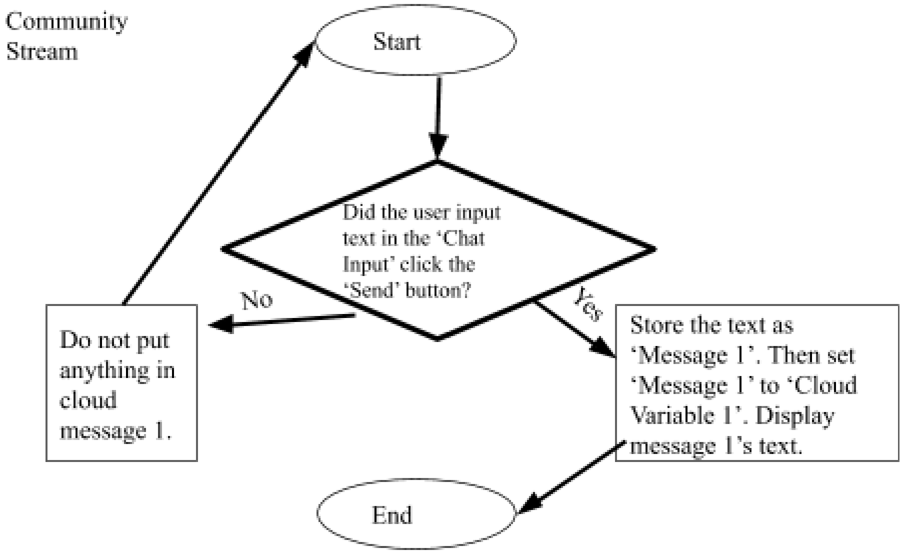
When the user clicks this button she is led to the 'Personal Emergency' screen. She can then text her emergency contact personalized automated texts.

When the user clicks this button she is led to the 'Women in the News' screen. This screen shows the user different powerful women in the news.

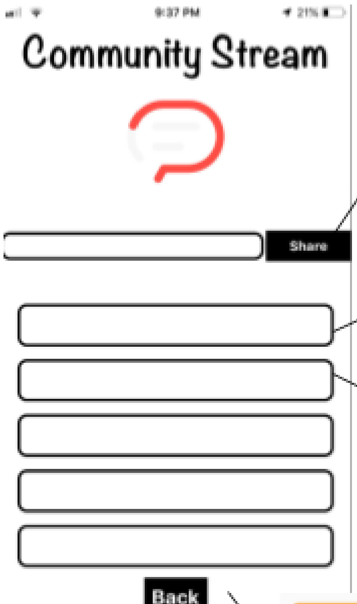
When the user clicks this button she is led to the 'Girl Power' screen. In this screen she is taught about different women who are an inspiration to everywhere.

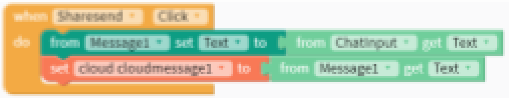
When the user clicks this button she is led to the profile screen.This screen allows the user to customize their profile and include their own phone number.

9. Home page overview and layout


Community Stream
Start
Did the user input text in the 'Chat Input' click the 'Send' button?
No
Yes
Do not put anything in cloud message 1.
Store the text as 'Message 1'. Then set 'Message 1' to 'Cloud Variable 1'. Display message 1's text.
End

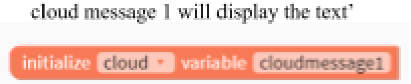
Community Stream





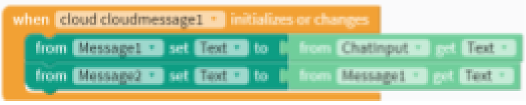
```
when Sharesend Click
do  from Message1 set Text to  from ChatInput get Text
    set cloud cloudmessage1 to  from Message1 get Text
```

When the user clicks the ‘Share’ button the text from the ‘Chat Input’ will be set to ‘Message 1’. Then ‘Message 1’s text will be set to cloud message 1, and then the box below ‘known as cloud message 1 will display the text’



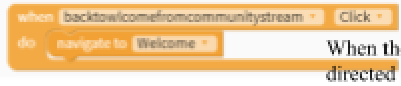
```
initialize cloud variable cloudmessage1
```

The variable ‘Cloud Message 1’ is a variable, which means it will be stored in the cloud. Items that are stored as ‘cloud’ variables can be seen by anybody using the app. In this case, this cloud variable is being used to represent the ‘box’.



```
when cloud cloudmessage1 initializes or changes
    from Message1 set Text to  from ChatInput get Text
    from Message2 set Text to  from Message1 get Text
```

When another user changes the chat, ‘Cloud Message 1’ is moved down to the second text box. Then ‘Message 2’ is known as ‘Message 1’.

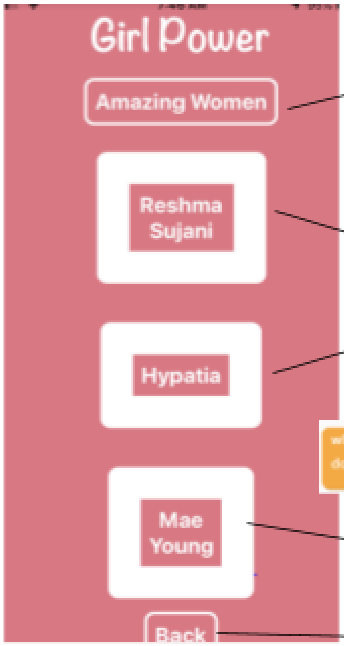


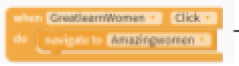
```
when backtowlcomefromcommunitystream Click
do  navigate to Welcome
```

When the user clicks the back button they are directed the ‘Home’ screen of **Support System**.

Girl Power

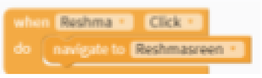
This screen allows the user to see amazing, kick-butt women in many different areas throughout history, and in current time.



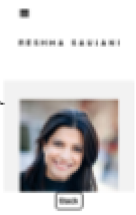


```
when GreatlearnWomen Click
do  navigate to Amazingwomen
```

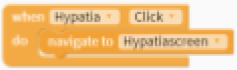
This screen allows the user to see amazing women throughout history. All the Women that the books left out.



```
when Reshma Click
do  navigate to Reshmasreen
```

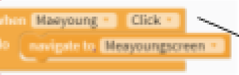


This screen takes the user to an informational website about Reshma Sujani, the founder of Girls Who Code



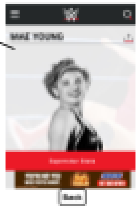
```
when Hypatia Click
do  navigate to Hypatiascreen
```

This screen takes the user to an informational website about Hypatia, a mathematician.



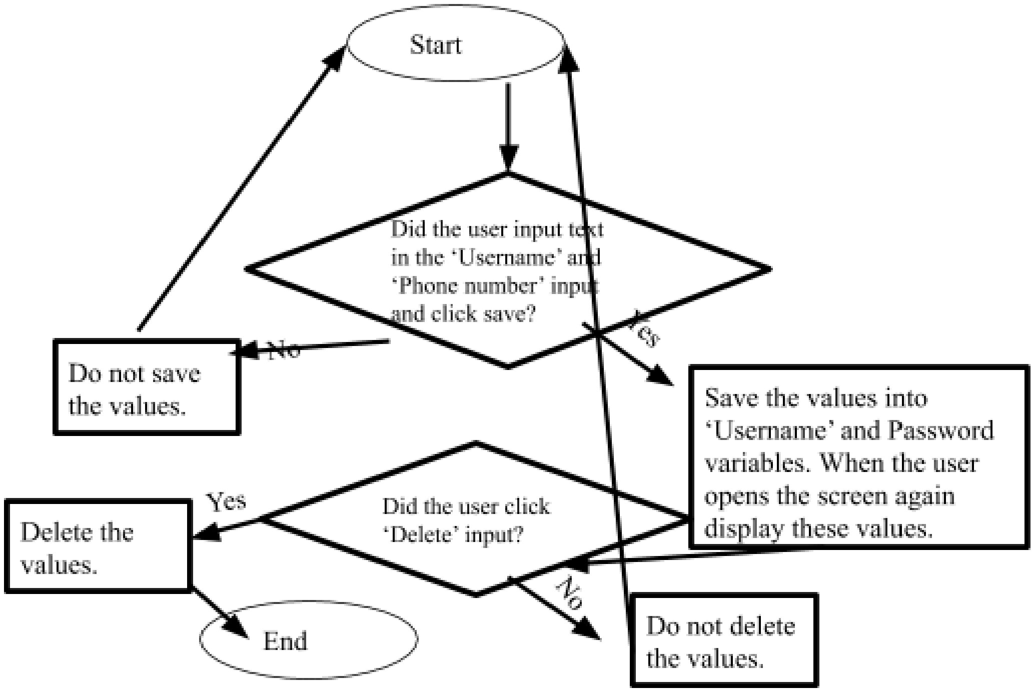
```
when Maeyoung Click
do  navigate to Meayoungscreen
```

This screen takes the user to an informational website about Mae Young, a wrestler.

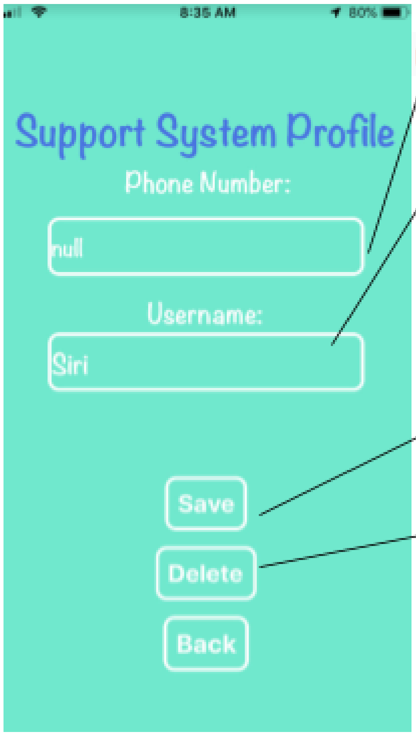


This screen takes the user back to the ‘Home’ screen.

Profile screen


Start
Did the user input text in the 'Username' and 'Phone number' input and click save?
No
Yes
Do not save the values.
Save the values into 'Username' and Password variables. When the user opens the screen again display these values.
Did the user click 'Delete' input?
Yes
No
Delete the values.
Do not delete the values.
End

This screen allows the user to customize their username and input their own phone number.

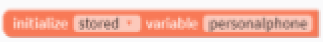


Phone Number:

null

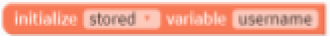
Username:

Siri

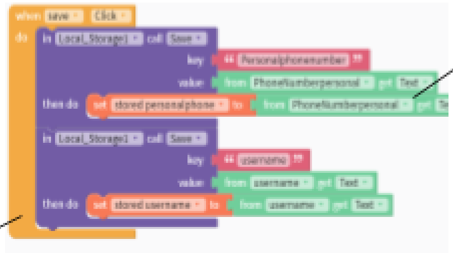


```
initialize stored variable personalphone
```

These variables are stored in the app, and they are the phone number and username.

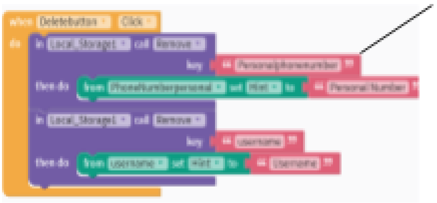


```
initialize stored variable username
```



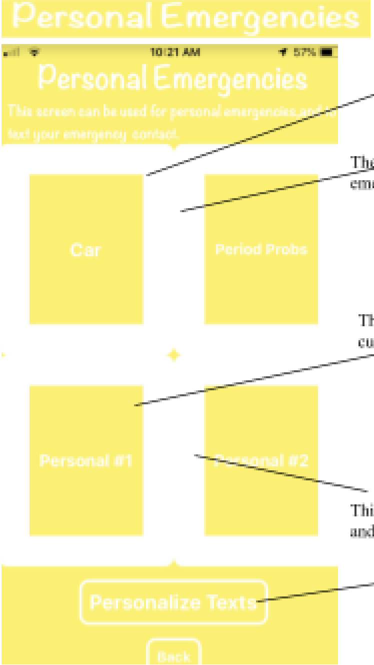
```
when save . Click
do  in Local_Storage1 . call Save
                          key  " Personalphonenumber "
                        value  from PhoneNumberpersonal . get Text
    then do  set stored personalphone to  from PhoneNumberpersonal . get Te
    in Local_Storage1 . call Save
                          key  " username "
                        value  from username . get Text
    then do  set stored username to  from username . get Text
```

When the save button is clicked the input is saved in 'Local Storage', with certain keys to pull the value back up. When the user reopens the screen, they will see their data and valued.

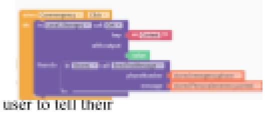


```
when Deletebutton . Click
do  in Local_Storage1 . call Remove
                          key  " Personalphonenumber "
    then do  from PhoneNumberpersonal . set Hint to  " Personal Number "
    in Local_Storage1 . call Remove
                          key  " username "
    then do  from username . set Hint to  " Username "
```

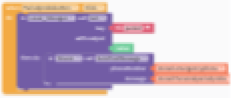
When the delete button is clicked, local storage deletes their info.



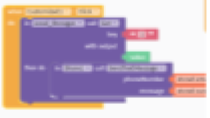
This is the 'Car' emergency text. This text can be personalized on a seperate screen. This text is directly sent to the emergency contact, and it is meant to tell the user about what car they are in.



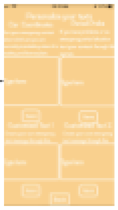
The 'Period Probs' button allows the user to tell their emergency contact about any personal problems they have.



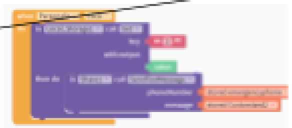
This is the 'Personal #1' text, the user can personalize and customize their text.

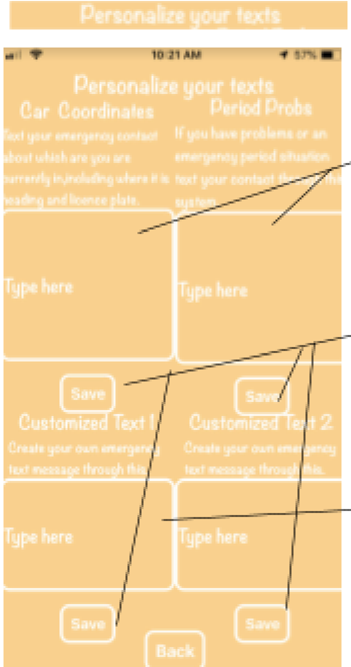


The Next Screen, to personalize your texts.



This is the 'Personal #2' text, the user can personalize and customize their text.



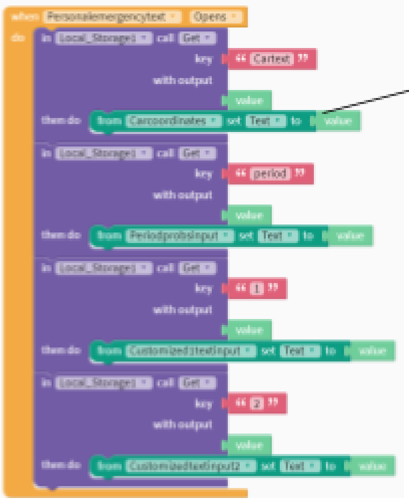

Personalize your texts
10:21 AM
57%
Personalize your texts
Car Coordinates
Period Probs
Text your emergency contact about which are you are currently in,including where it is heading and licence plate.
If you have problems or an emergency period situation text your contact through the system.
Type here
Type here
Save
Save
Customized Text 1
Customized Text 2
Create your own emergency text message through this.
Create your own emergency text message through this.
Type here
Type here
Save
Save
Back

This is a very important screen,where the user can personalize their texts. I will explain what each function is.I will explain the code on a seperate screen.

The user can input their personal text about car or 'Period Probs' coordinates in this box. It can be a fill in the blank text or more.

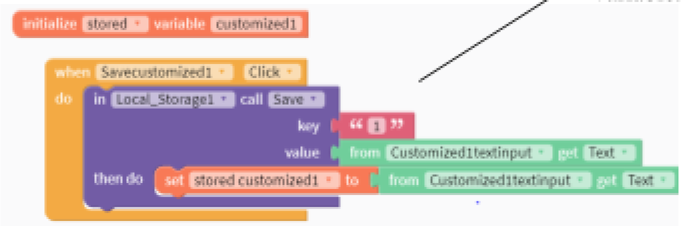
The user can save their text by clicking this button. It is automatically stored in the app, and saved as a local storage.

The user can input and customize their own personal text. Once save is clicked it is immediately sent to the button on the 'Send personal Texts screen'.



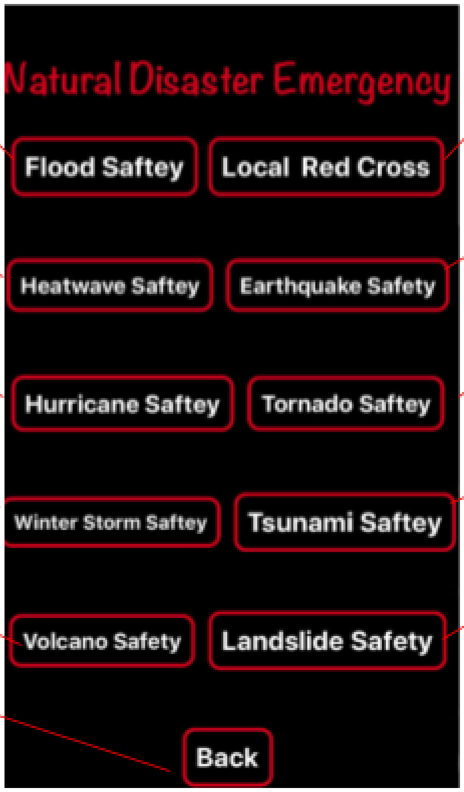
```
when Personalemergencytext Opens
do  in Local_Storage1 call Get
                      key "Cartext"
              with output
                      value
    then do  from Carcoordinates set Text to value
    in Local_Storage1 call Get
                      key "period"
              with output
                      value
    then do  from Periodprobsinput set Text to value
    in Local_Storage1 call Get
                      key "1"
              with output
                      value
    then do  from Customized1textinput set Text to value
    in Local_Storage1 call Get
                      key "2"
              with output
                      value
    then do  from Customizedtextinput2 set Text to value
```

This text allows the user to open up the 'Personal Emergency Customize' screen at any time and access their saved texts. The texts are saved in local storage.



```
initialize stored variable customized1

when Savecustomized1 Click
do  in Local_Storage1 call Save
                      key "1"
                    value from Customized1textinput get Text
    then do  set stored customized1 to from Customized1textinput get Text
```

This is a sample code for the variables. When the input is saved it is stored as a customized variable.



This button leads the user to a flood safety screen.

This button leads the user to a Heatwave safety website with plenty of information.

This button leads the user to a Hurricane Safety screen

This button leads the user to a Winter Storm Safety screen.

This button leads the user to a Volcano safety website.

This button leads the user back to a home screen.

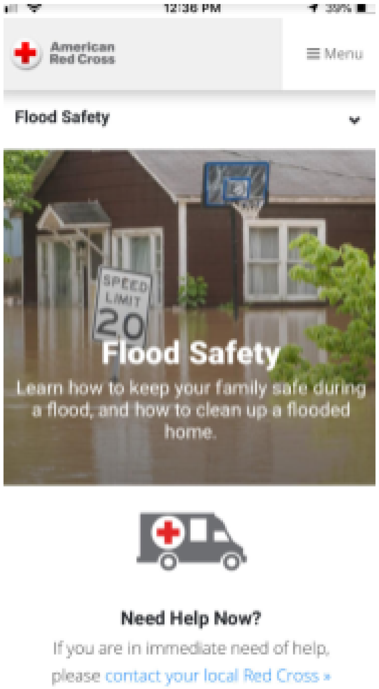
This button leads the user to a website that has information on where to find their Local Red Cross.

This button leads the user to an Earthquake safety website.

This button leads the user to a Tornado safety website.

This button leads the user to a Tsunami Safety screen.

This button leads the user to a Landslide Safety website.



Flood Safety

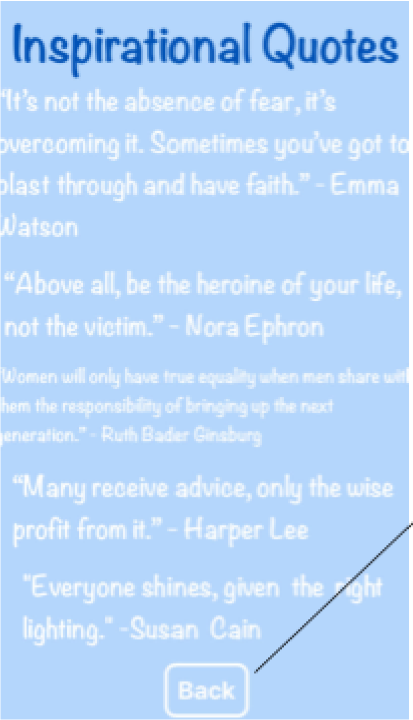
Flood Safety

Learn how to keep your family safe during a flood, and how to clean up a flooded home.

Need Help Now?

If you are in immediate need of help, please contact your local Red Cross »

Example of a Safety page



Inspirational Quotes

"It's not the absence of fear, it's overcoming it. Sometimes you've got to blast through and have faith." - Emma Watson

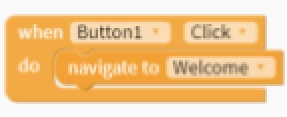
"Above all, be the heroine of your life, not the victim." - Nora Ephron

Women will only have true equality when men share with them the responsibility of bringing up the next generation." - Ruth Bader Ginsburg

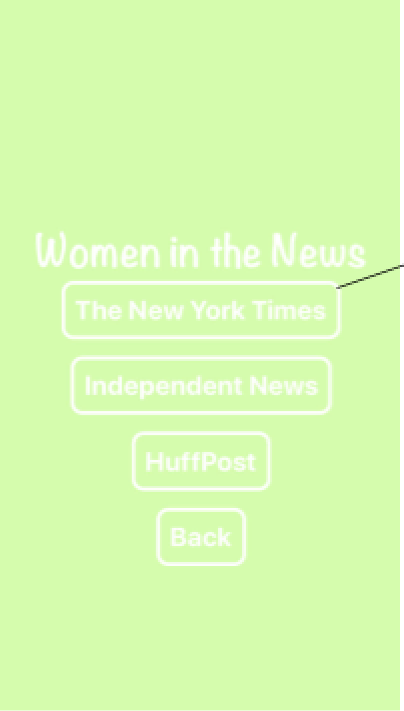
"Many receive advice, only the wise profit from it." - Harper Lee

"Everyone shines, given the right lighting." -Susan Cain

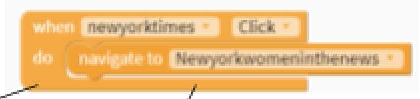
This screen is the inspirational quotes screen. There is minimal coding. This screen's main purpose is to serve as inspiration.



```
when Button1 . Click
do   navigate to Welcome
```



This screen is to inspire women everywhere about current events that entail amazing women. Below is an example with the 'New York Times' button.



```
when newyorktimes Click
do navigate to Newyorkwomenintheneews
```

This is the New York times Amazing women screen.

First internationally recognized publication on workforce diversity.

Welcome to DiversityCentral.com!

Feature Articles

White Supremacy: An Overview

(A Fact Sheet from the Tannenbaum Center)

For each of the 10 years from 1996 to 2015, the highest number of deaths from crimes by extremists in the United States occurred at the hands of white supremacists—a tally that includes both non-ideologically as well as ideologically motivated murders.

2016 marked the first break from this pattern, when the country's worst mass shooting last June was perpetrated by a self-identified Muslim at a nightclub in Orlando. Though we do not know whether there are long-term implications in this shift, what is clear is that, at the start of 2017, white supremacy is still one of the primary causes of domestic terrorism and hate crimes in the U.S. today.

Read the full Fact Sheet here.

Inclusion —What it IS and IS NOT

By Frederick A. Miller and Judith H. Katz

It is rare to come across an organization that does not have an inclusion statement or some internal effort related to inclusion. Many organizations see inclusion having a broader meaning as a platform for higher organizational performance and understand that they simply cannot afford to ignore inclusion.

In more progressive organizations, inclusion is being implemented as a path to competitive advantage—a central business strategy that accelerates organizational performance, builds stronger connections with organizational members and with customers, and produces superior bottom-line results. But even in these organizations, inclusion efforts can be hindered by misconceptions that inclusion is solely "a nice thing to do" that is separate from the core operations of the organization and its performance.

Monthly Features

Monthly Calendar

Global Diversity

Human trafficking: The modern form of slavery

Diversity Quiz

African Americans in U.S. Politics

Diversity Statistics

How are women doing in gaining access to senior leadership roles?

Quote of the Month

[illegible] October 2, 2016

News & Trends

- Remembering Horace Ward, Renowned Judge and Civil Rights Trailblazer

Signs of Change

Grassroots events to engage LGBTQ people about their future in over 40 U.S. cities

Feature Articles

Inclusion — What it IS and IS NOT

If differences are to make a difference, we need an "inclusion breakthrough"

Generations we haven't heard from speak up about diversity and inclusion

This Month's FREE article from the CDM Archive

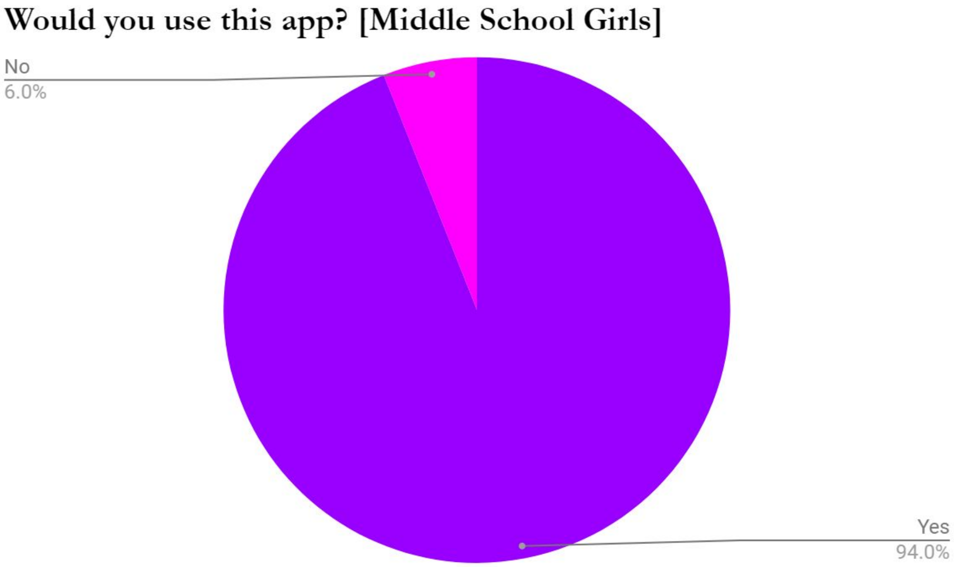
Full catastrophe public leadership By Robert Hayles

Press Releases

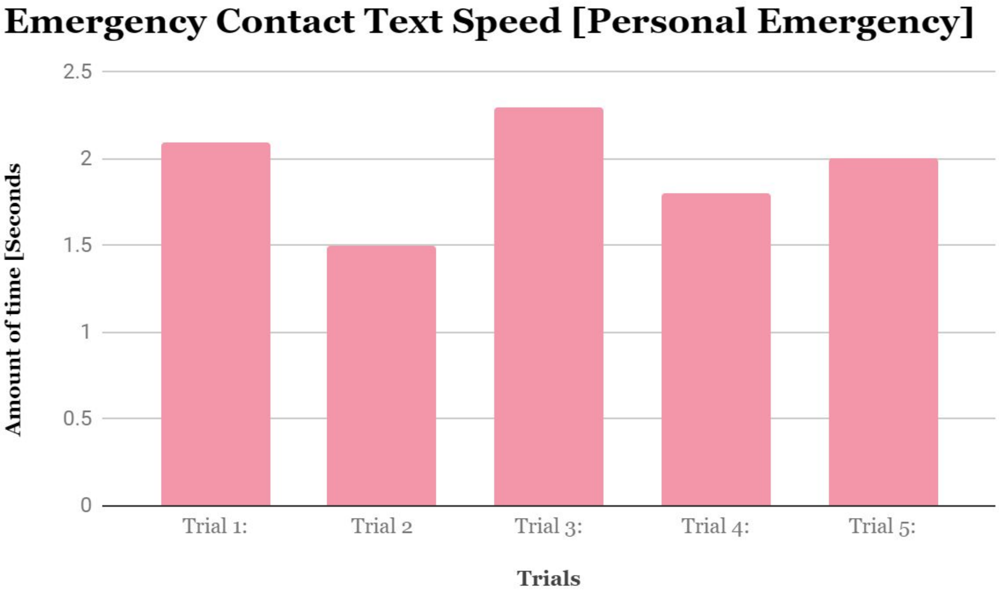
2016 Research Conference on Diversity & Inclusion

This is the diversity screen

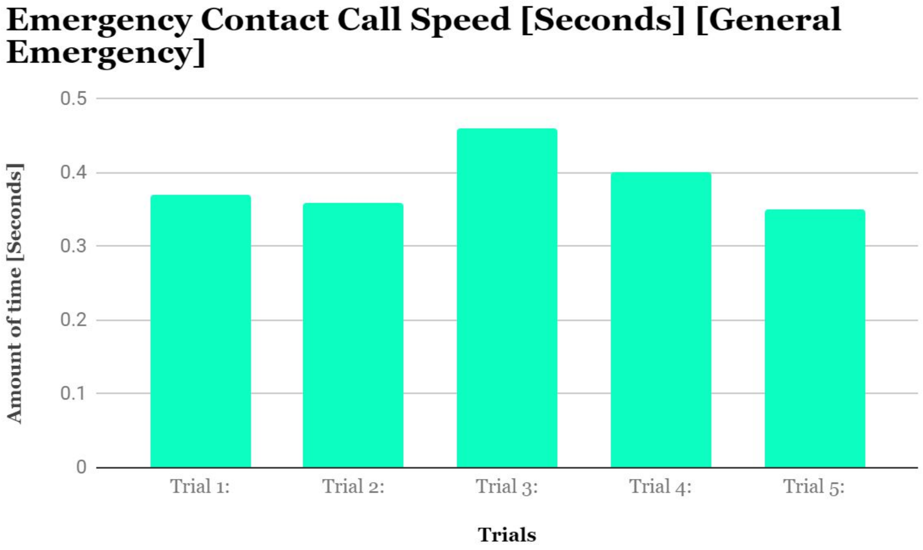
10. ‘Would you use this app?’ Study



11. Emergency Contact Text Speed



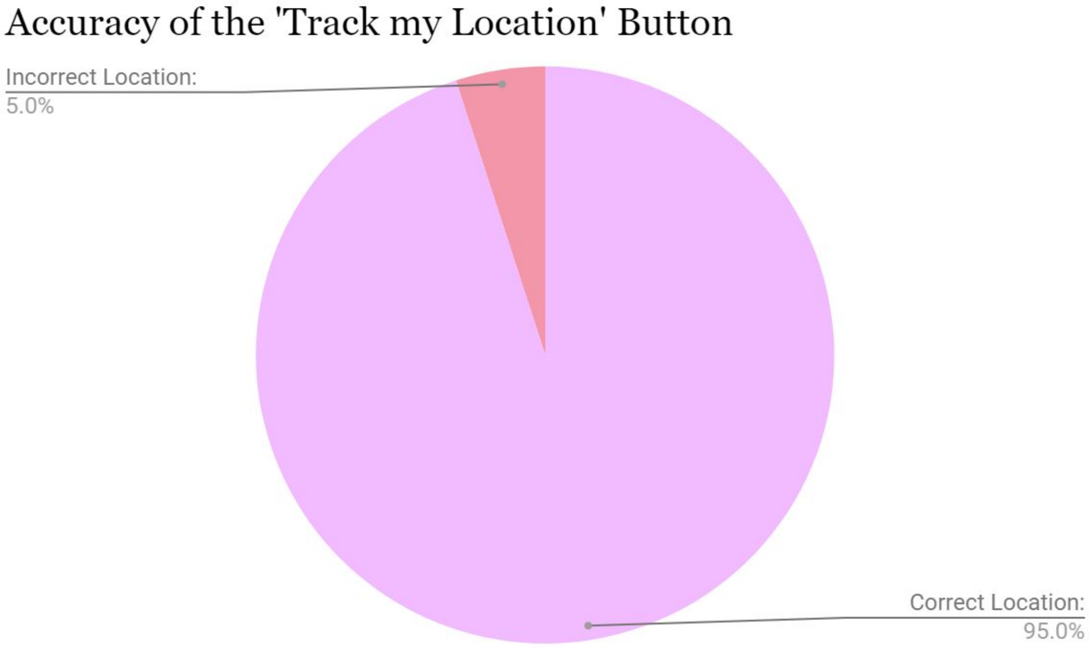
12. Emergency Contact Call Speed



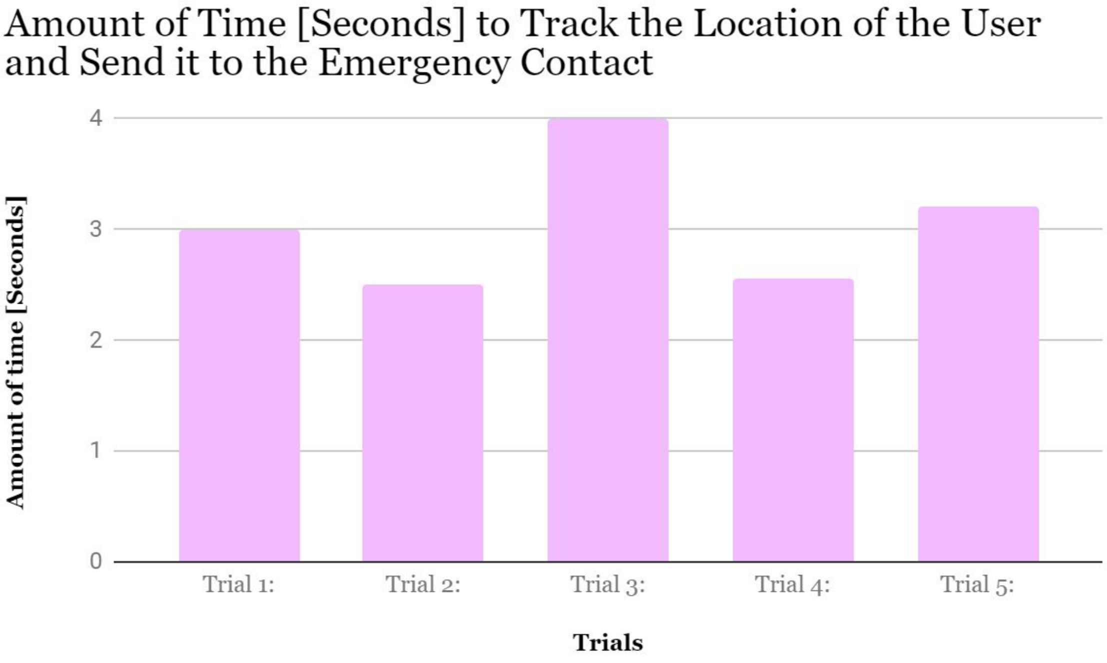
13. Photo speed

Amount of time[Seconds] to send Photo to Emergency Contact [General Emergency]
4

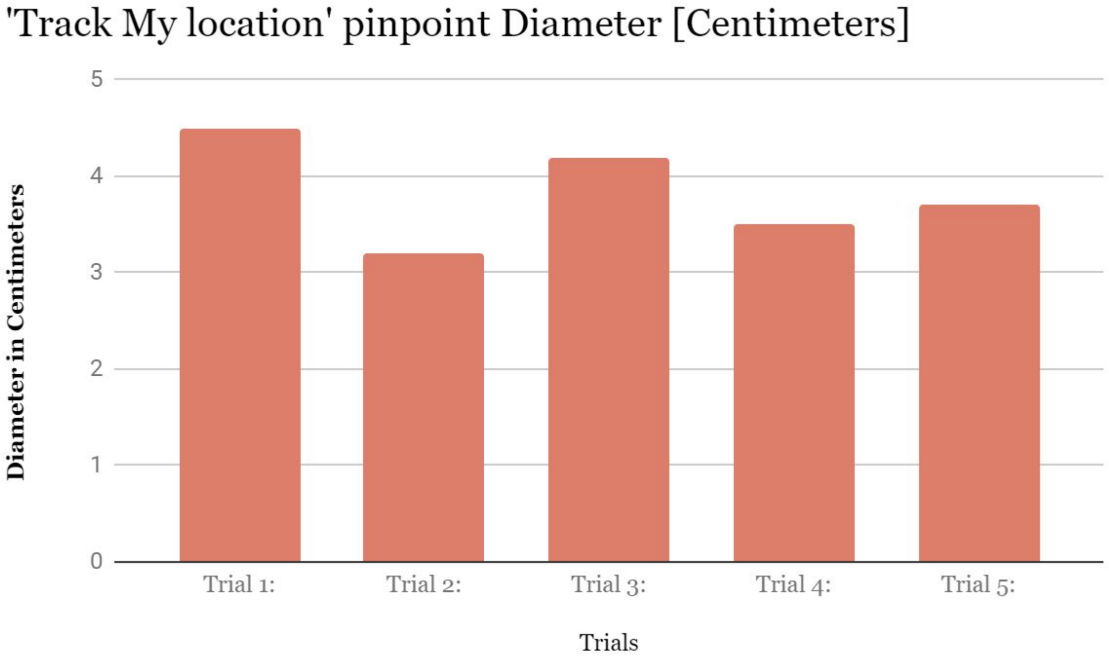
14. Location Sensor Accuracy



15. Amount of time to pinpoint and send location



16. Diameter graph


'Track My location' pinpoint Diameter [Centimeters]
Diameter in Centimeters
Trial 1:
Trial 2:
Trial 3:
Trial 4:
Trial 5:
Trials