

User Interface(UI) Progression Report

Analysis

The purpose of this report is to highlight the improvements made within our UI design strategy. Our first round of tests can be found within **cycle_1/** and the last within **cycle_2/**.

Following the conduction of the first UI tests, we uncovered a lot of underlying issues when it came to the scaling of components across various screen dimensions. Not only that, but the central theme of our original application wasn't aligned across the different screens. As shown within phase one, it shows the initial state of the User Interface before any changes were made. It wasn't as aesthetically pleasing as we hoped for, with little planning and consideration for the designing of universal screen sizes. Instead, the UI only seemed to fit those devices in which we initially developed on and not all.

Following the cycle_1 tests, we adapted the UI in a way that it would directly correspond to the screen's given dimensions rather than any fixed static size for all. Along with those changes made, we also included a change in font. Given how visual-heavy our application can be within certain screens, typography was an important step. We opted for the font "Roboto" within all of the Text components. Reason being that not only was it able to use across both platforms, but upon researching on most appropriate fonts to use in mobile development, it was listed across many blogs due to its friendly and open curves appearance. [1]

A bottom navigation bar was also chosen to provide simple and easy access to all of the app functionality and to reduce the users' short term memory load. With screens where the bottom bar is not visible, there are clear back navigation buttons within each screen's header, which can return the user to the previous page in the stack without causing confusion. Not just that, but at any point within the application, the user can easily access the app's settings and contact the developers through the top right icon, which is available on all screens. Within both the Home Menu and the Bottom Bar, it was important to us to add a text component under each icon to explain what function it refers to, rather than the user having to try to remember first.

We selected the app's theme to consist of blue, white and green sided with reds to establish a high contrast between important features. We chose a mixture of this mix of cool and warm tones to stimulate the users' visual senses. The selected colour scheme was an important dimension to our application. Even when it came to the Icon design, we involved the same colour psychology. We came across a study called Impact of Color in Marketing, within it relieved the colours blue (34%), followed by white (21%) and green (11%) best depicted the emotion Trust. [2] Given that our application is based on that premise between its users, this colour palette option felt like our best choice. As you can see within the cycle_1 tests screenshots, originally we had opted for purple & blue tones together but it had quite too

much femininity that we would have liked. And given that this application is designed for all genders, we needed a more universal appeal.

Phase 1

Taken on 11/04/2020

- **Test Metrics**

Test Pack	Executed By	Total	Pass	Fail	Total Executed	% Executed	% Pass Rate	% Fail Rate	Notes
Safe Zone Add	HOC	9	3	6	9	100%	30%	70%	Not currently suited to smaller devices. Content falls off screen.
Safe Word Create	HOC	9	9	-	9	100%	100%	-	No more development needed
Notification Feed	HOC	6	6	-	6	100%	100%	-	No further development needed.
Messages List	HOC	6	6	-	6	100%	100%	-	No further development needed.
Medical Profile Setup	HOC	6	-	6	6	100%	-	100%	Need to be redone.
1-1 Message	HOC	12	9	3	12	100%	75%	25%	Messages aren't displayed on correct side
Follow Me - Tracking User	HOC	6	6	-	6	100%	100%	-	No further development needed.
Follow Me - Personal Session	HOC	9	4	5	6	100%	45%	55%	Not suited for smaller device screens
Contact Us Form	HOC	3	1	2	3	100%	30%	70%	Not suited for smaller device screens
Circle Manager	HOC	9	3	6	9	100%	30%	70%	Issues with button placements and overlay component

User Profile	HOC	6	3	3	6	100%	50%	50%	Various sections of the user profile should be refactored.
SOS Mode	HOC	9	5	4	9	100%	55%	45%	Issues with countdown screen's margin and overlay
Fake Call	HOC	15	12	3	15	100%	80%	20%	Not suited for smaller device screens
Social Media	HOC	15	12	3	15	100%	80%	20%	Last posts is cut off from screen view
Settings	HOC	9	4	5	9	100%	45%	55%	Different Modal positions across different screens
Circle Create	HOC	15	10	5	15	100%	66%	33%	Move the bottom buttons to a better spot in screen.
Circle Join	HOC	6	6	-	6	100%	100%	-	No further development needed.
Activity Logs	HOC	12	9	3	12	100%	75%	25%	Issue with Follow me logs items across all screens.
Registration	HOC	6	4	2	6	100%	60%	40%	Content needs to be scrolled on smaller screens.
Verifying User	HOC	6	6	-	6	100%	100%	-	No further development needed.
Home Screen	HOC	6	3	3	6	100%	50%	50%	Only suited for medium sized screens
112 Text Generator	HOC	9	8	1	9	100%	85%	15%	Issue with selecting a service on a small screen.
Overall Total		186	129	57	186	100%	69.35%	30.65%	

- **UI Layouts**

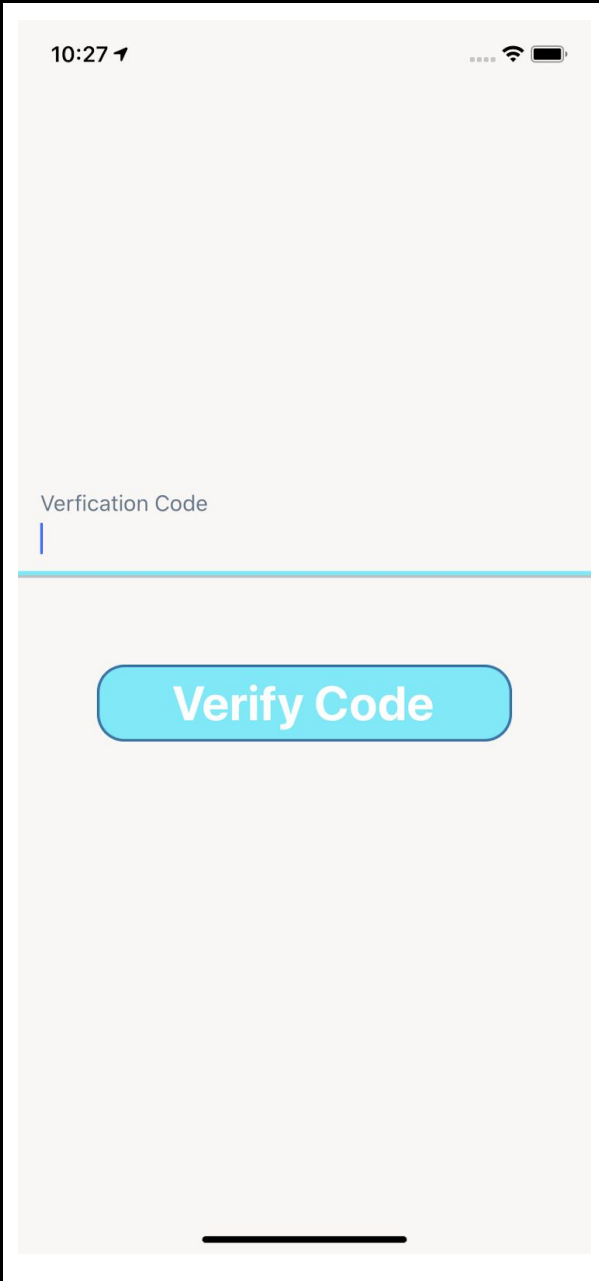
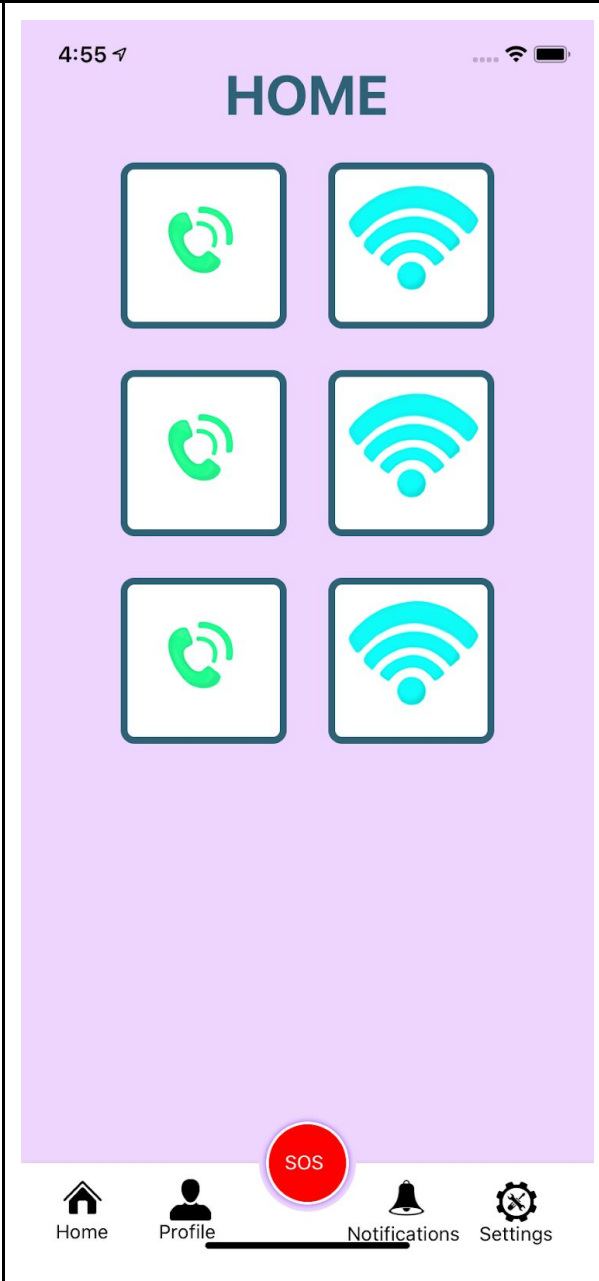
Welcome Screen	Registration Screen
----------------	---------------------


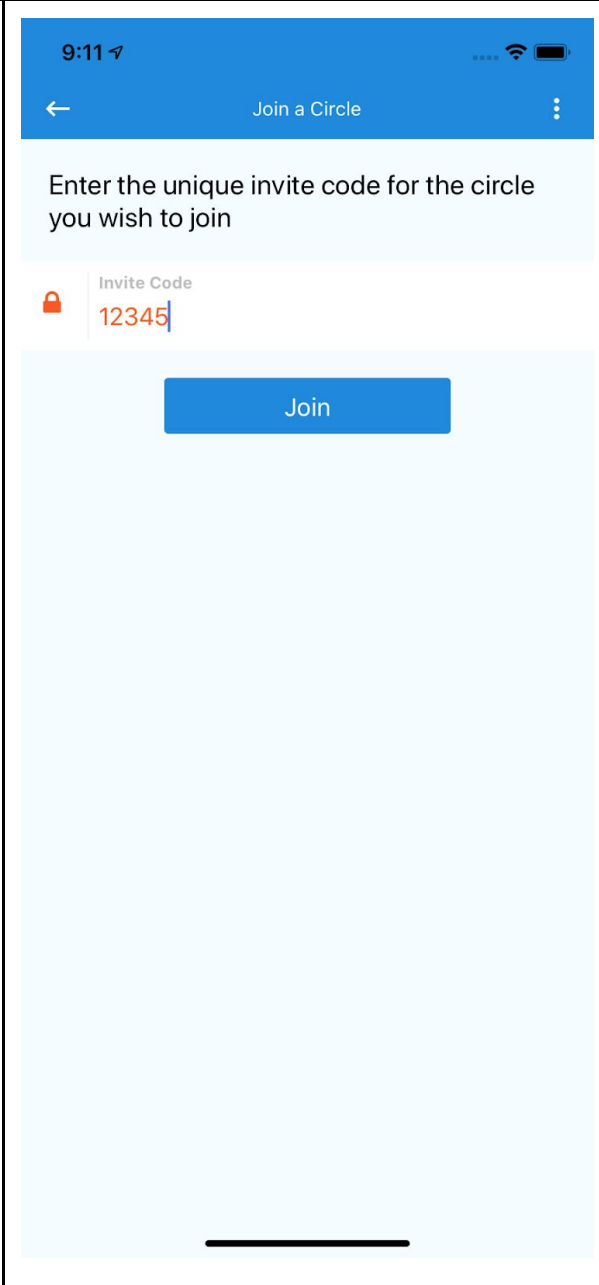


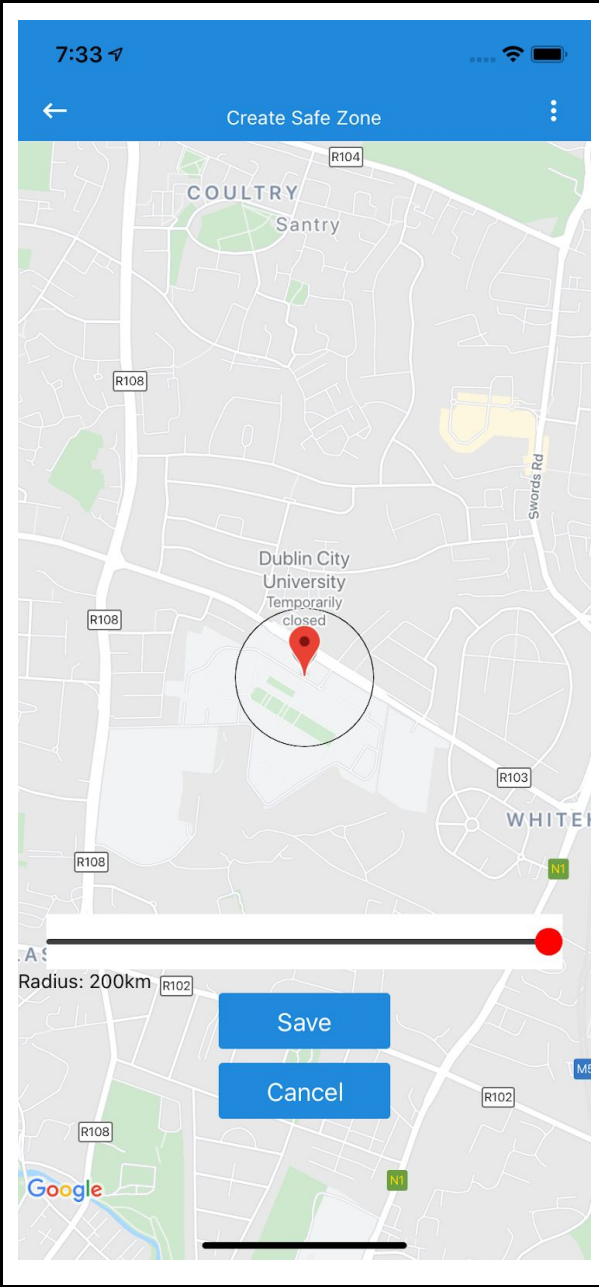
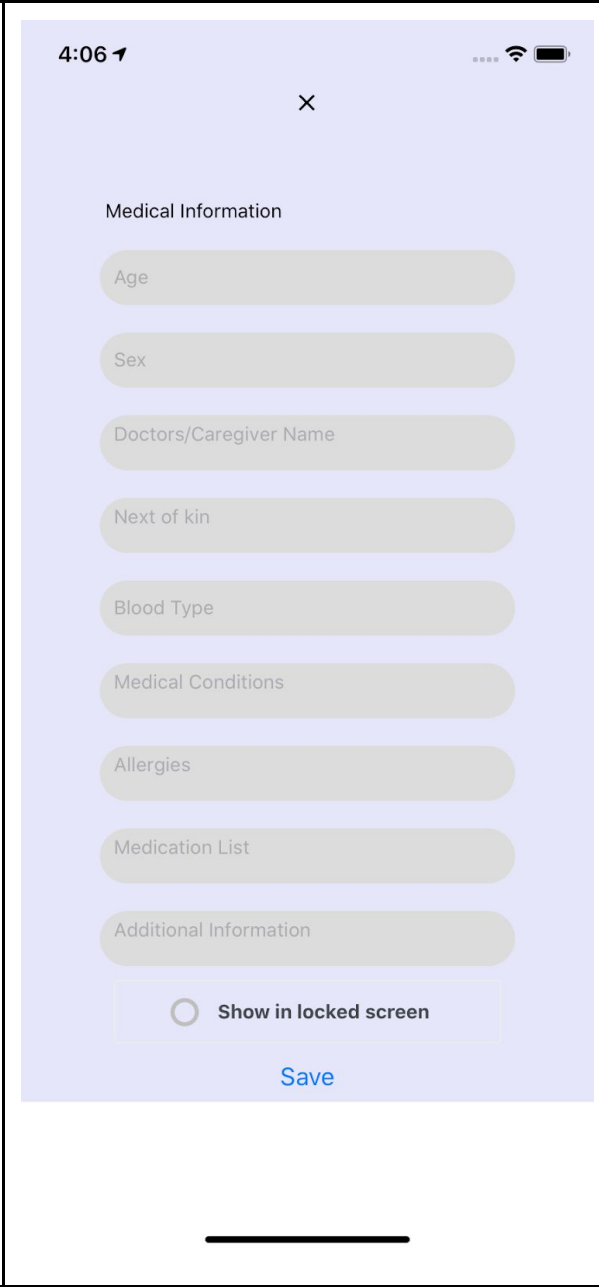
Verifying New User Screen

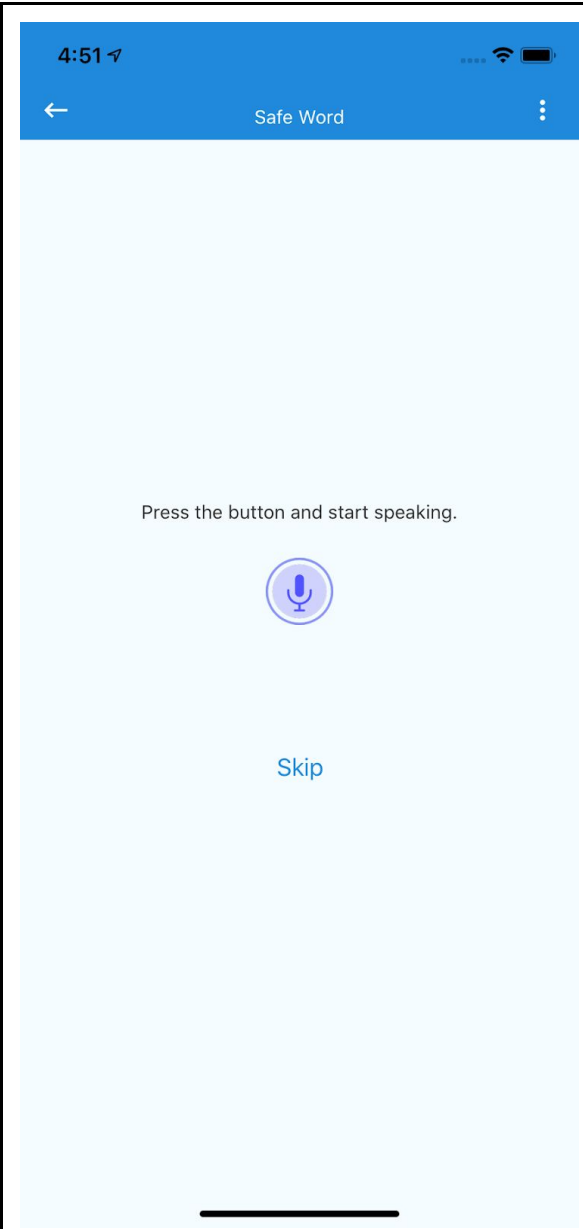
A mobile app screen for the registration process. The background is light grey. At the top, there is a dark blue header with the word 'Registration' in white. The time is 10:21. The form includes a dropdown menu for country (currently showing 'Ireland +353') and a text input for 'Phone number'. Below these are text inputs for 'First Name' and 'Last Name'. A 'Password' input field is followed by a 'Show' link. The 'Date of birth' section has a label and a date picker (showing 'select date of birth'). The 'Gender' section has three buttons: 'Male', 'Female', and 'Other' (which is highlighted in blue). At the bottom is a blue button labeled 'Get Code'.

Home Screen

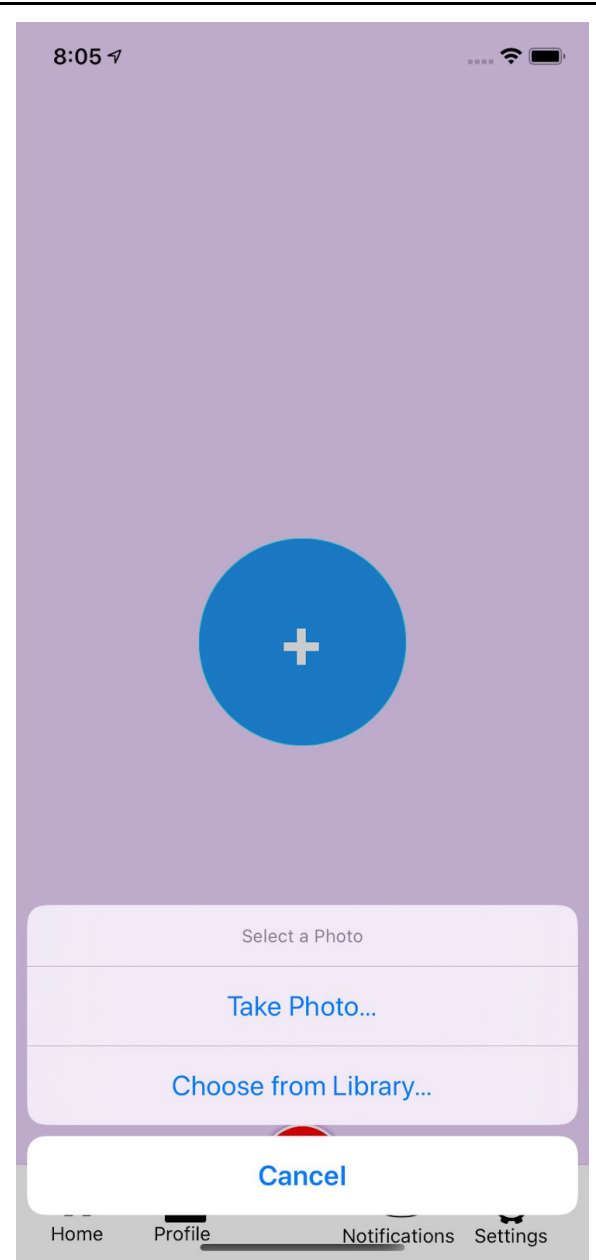
 <p>10:27</p> <p>Verification Code</p> <p>Verify Code</p>	 <p>4:55</p> <p>HOME</p> <p>SOS</p> <p>Home Profile Notifications Settings</p>
Creating a Circle Screen	Joining a Circle Screen

	
Creating a Safe Zone Screen	Setting up Medical Profile

	
Setting up a Safe Word	Uploading a Profile Picture




User Profile



Notifications

4:59

Profile



User Details

First Name

Test

Last Name

User

Phone Number

12345

Medical Information

Age

Sex

Allergies

Blood Type

Conditions


Requests

10:55

Notification Feed


Requests

Today

 This is a test notification

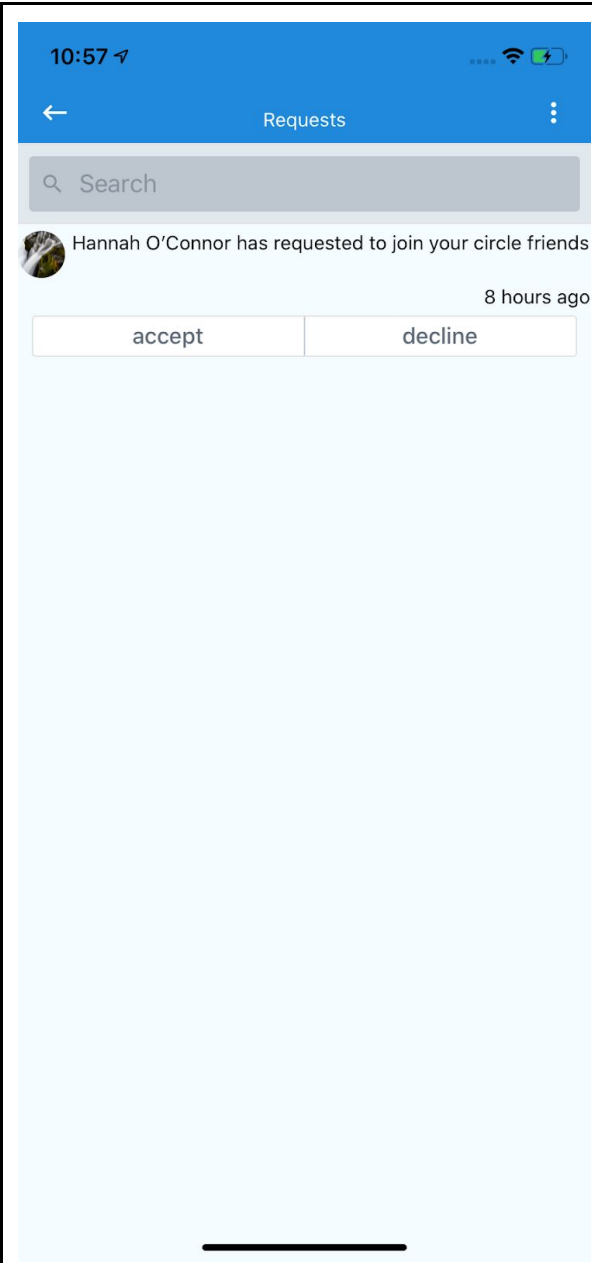
7 hours ago

This Month

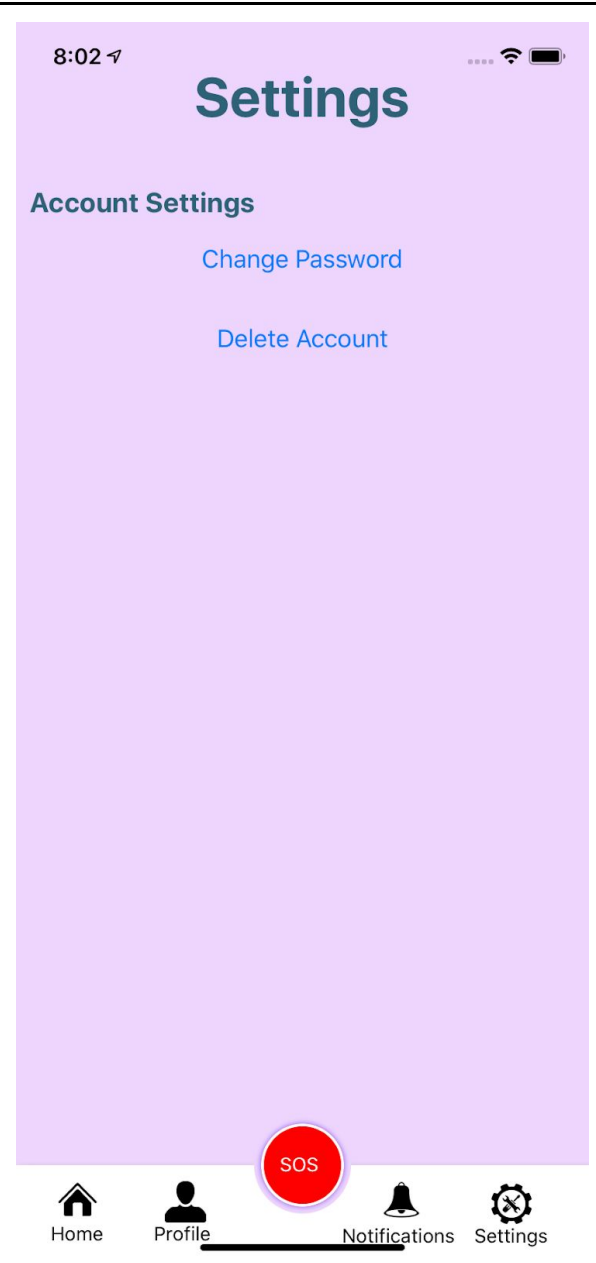
 This is another test notification

8 days ago







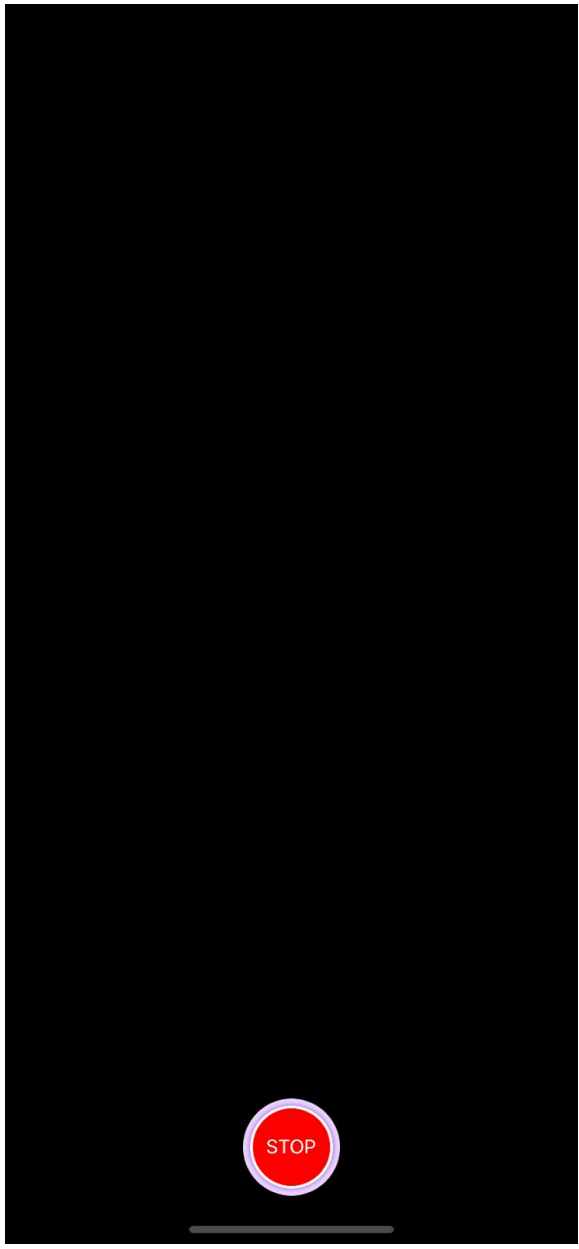
Settings

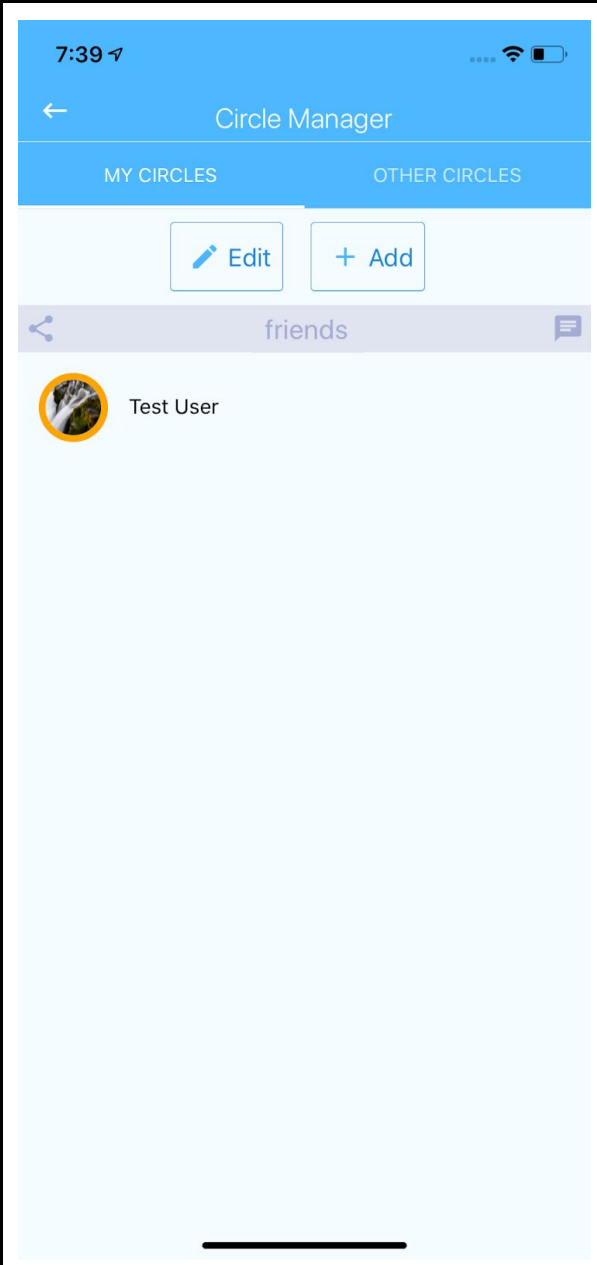


Social Media

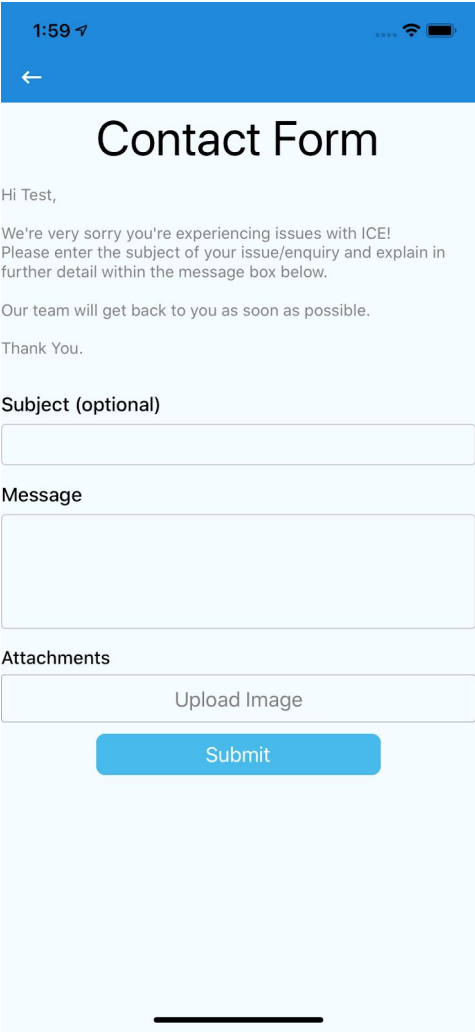


SOS Mode

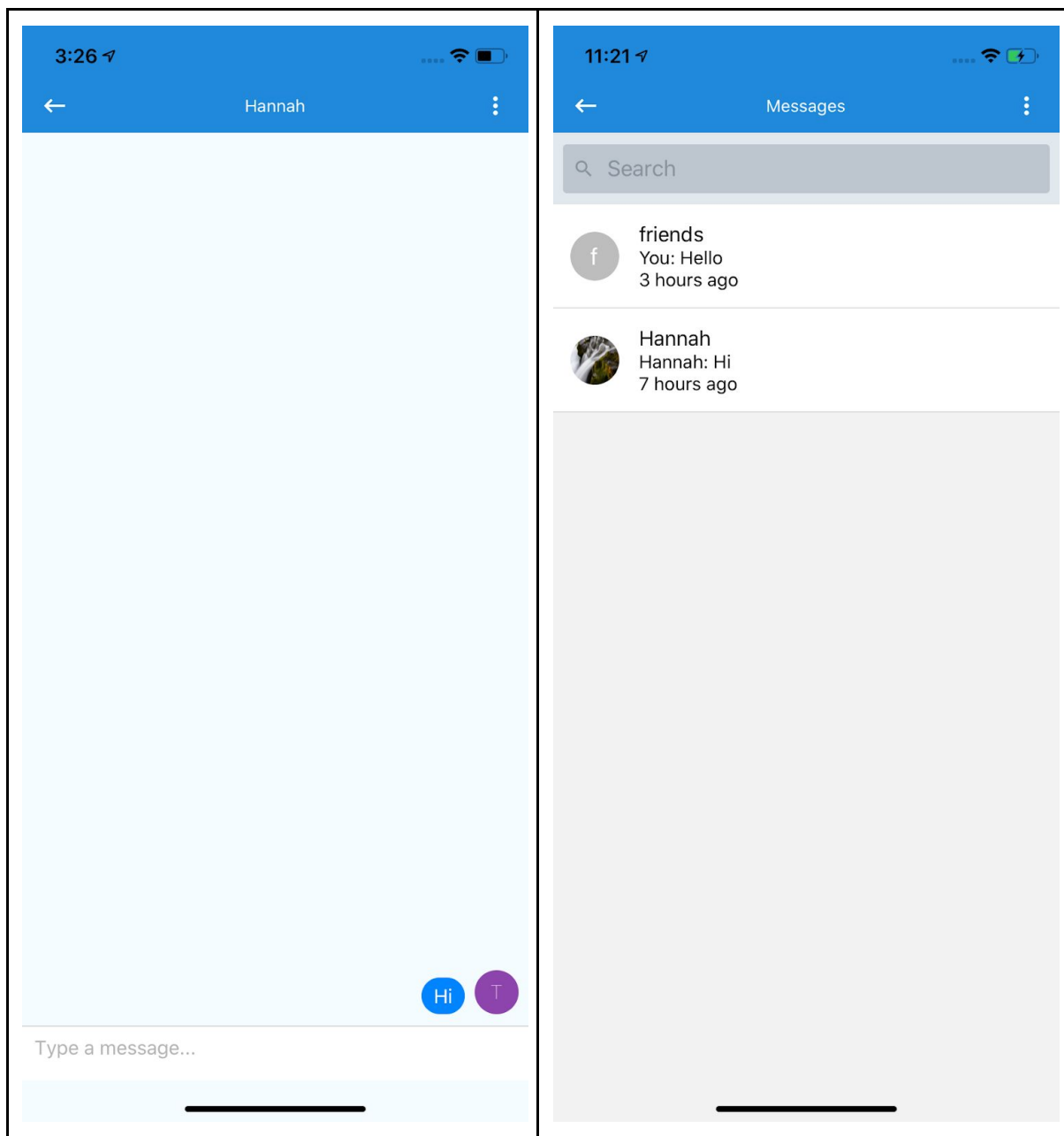
<div> <div> 1:05 📶 🔋 </div> <div> ← News Feed ⚙️ </div> </div> <div> <div>  <div> <div>Whats on your mind?</div> </div> </div> <div> <div>  <div> <div>Catherine Mooney</div> <div>3 days ago</div> </div> </div> <div> <div>Adding a post</div> </div> <div> <div>1 ❤️</div> <div>💬</div> </div> </div> <div> <div> <div>  <div> <div>Catherine Mooney</div> <div>4 days ago</div> </div> </div> <div> <div>Adding a third post</div> </div> <div>  </div> <div> <div>❤️</div> <div>💬</div> </div> </div> <div> <div> <div>  <div> <div>Catherine Mooney</div> <div>2 days ago</div> </div> </div> <div> <div>adding post</div> </div> <div>  </div> </div> </div> </div></div>	<div>  </div>
<div>Circle Manager - My Circles</div>	<div>Contact Us</div>



Chat Screen

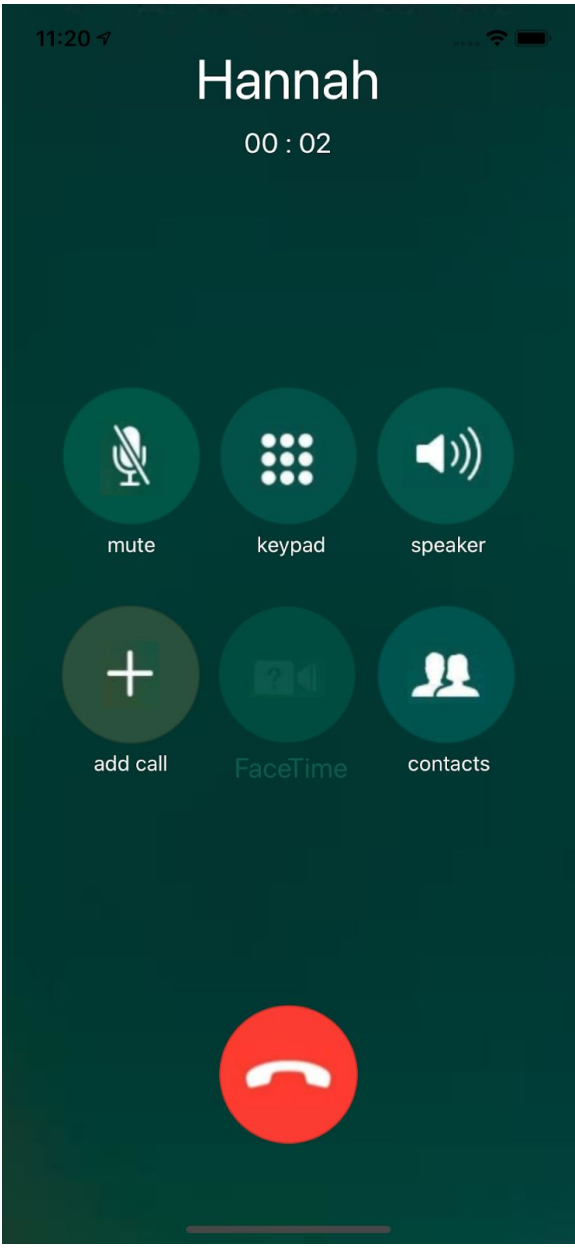
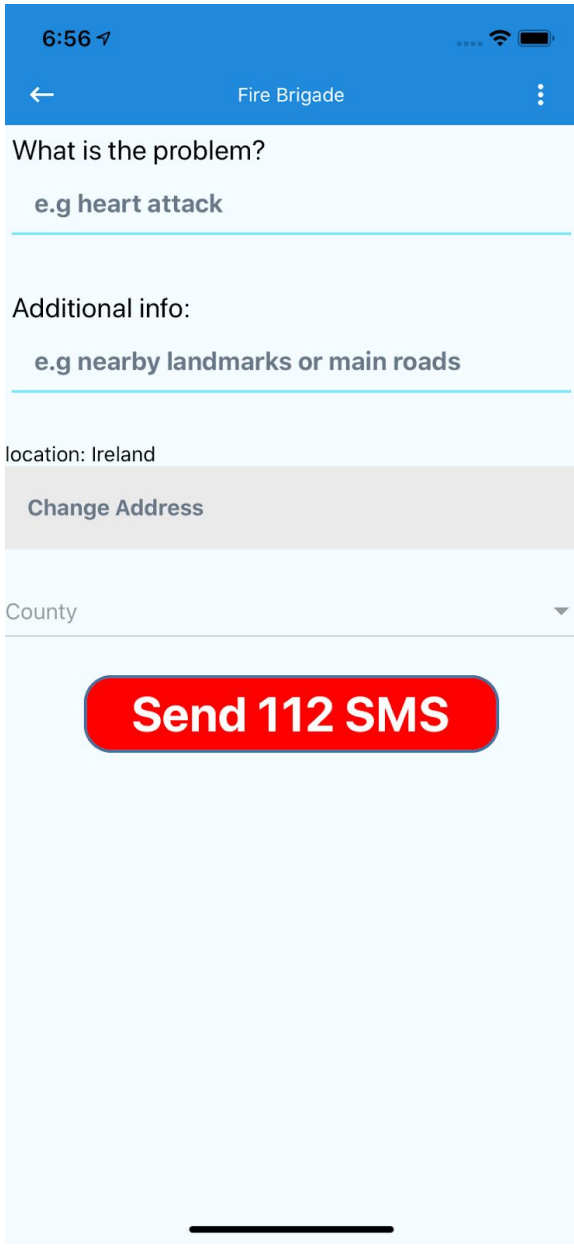


Messages Screen



Fake Call

112 Message

	
Fake Call - Recording Message	SOS Logs

<div> <div>11:20 </div> <div> <h1>Record Message</h1> <p>This will be played during fake call</p> <div> <div>RECORD</div> <div>PLAY</div> <div>STOP</div> <div>PAUSE</div> <div>0s</div> </div> <div> <div>Save Recording</div> <div>Cancel</div> </div> </div> </div>	<div> <div>11:02 </div> <div> <div> <div>←</div> <div>Hannah's activity logs</div> <div>⋮</div> </div> <div> <div>SOS LOGS</div> <div>FOLLOW ME LOGS</div> </div> <div>Sat Mar 28 2020</div> <div> <div>Share</div> </div> </div> </div>
Follow Me Logs	Circle Manager - Other Circles

11:00

Hannah's activity logs

SOS LOGS

FOLLOW ME LOGS

8 Rinawade Downs, Barnhall, Leixlip, Co. Kildare, W23 R851, Ireland

Google

Starting Point: Louisa Bridge Stn, Stop 3962, Leixlip, Co. Kildare, Ireland

Starting Time: Sat Apr 11 0920

Ending Time: Invalid Date

Distance Travelled: 0m

Google

Starting Point: 13 Main St, St. Catherine's Park, Leixlip, Co. Kildare, W23 A4N8, Ireland

Starting Time: Thu Apr 09 2020

Ending Time: Invalid Date

Distance Travelled: 1.1379719239844484m

Google

Starting Point: 13 Main St, St. Catherine's Park, Leixlip, Co. Kildare, W23 A4N8, Ireland

Starting Time: Thu Apr 09 2020

Ending Time: Invalid Date

Distance Travelled: 0m

Google

Starting Point: 1 Rye River Gardens, St. Catherine's Park, Leixlip, Co. Kildare, W23 X4C6, Ireland

Starting Time: Thu Apr 09 2020

Ending Time: Invalid Date

Distance Travelled: 0m

Google

Starting Point: 5 Old Hill, Leixlip, Co. Kildare, Ireland

Starting Time: Thu Apr 09 2020

Ending Time: Invalid Date

Distance Travelled: 0.9996187993371999m

Mode: walking

Checked In: No

Invalid date

Follow Me - Tracking User

7:43


Circle Manager

MY CIRCLES

OTHER CIRCLES

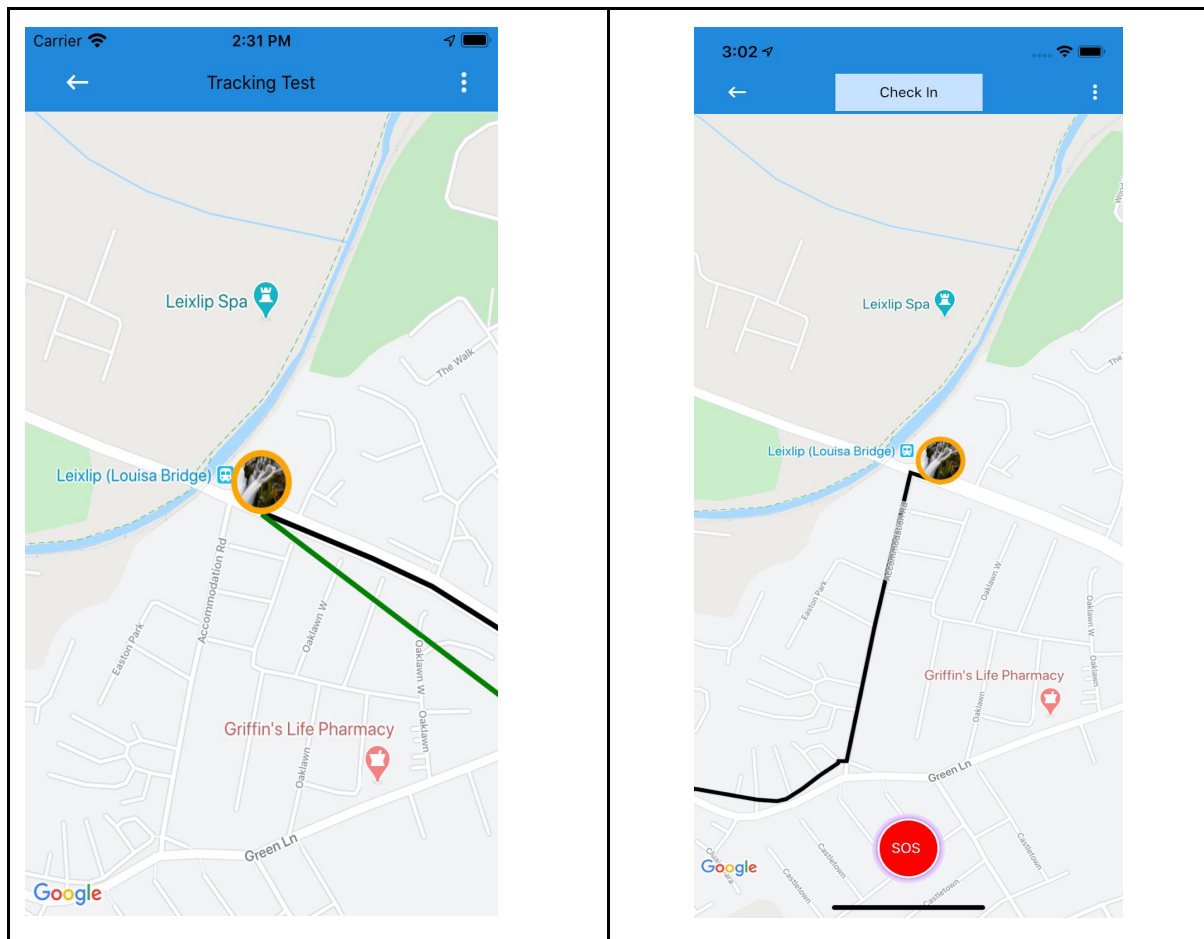
Edit

Hannah O'Connor's friends



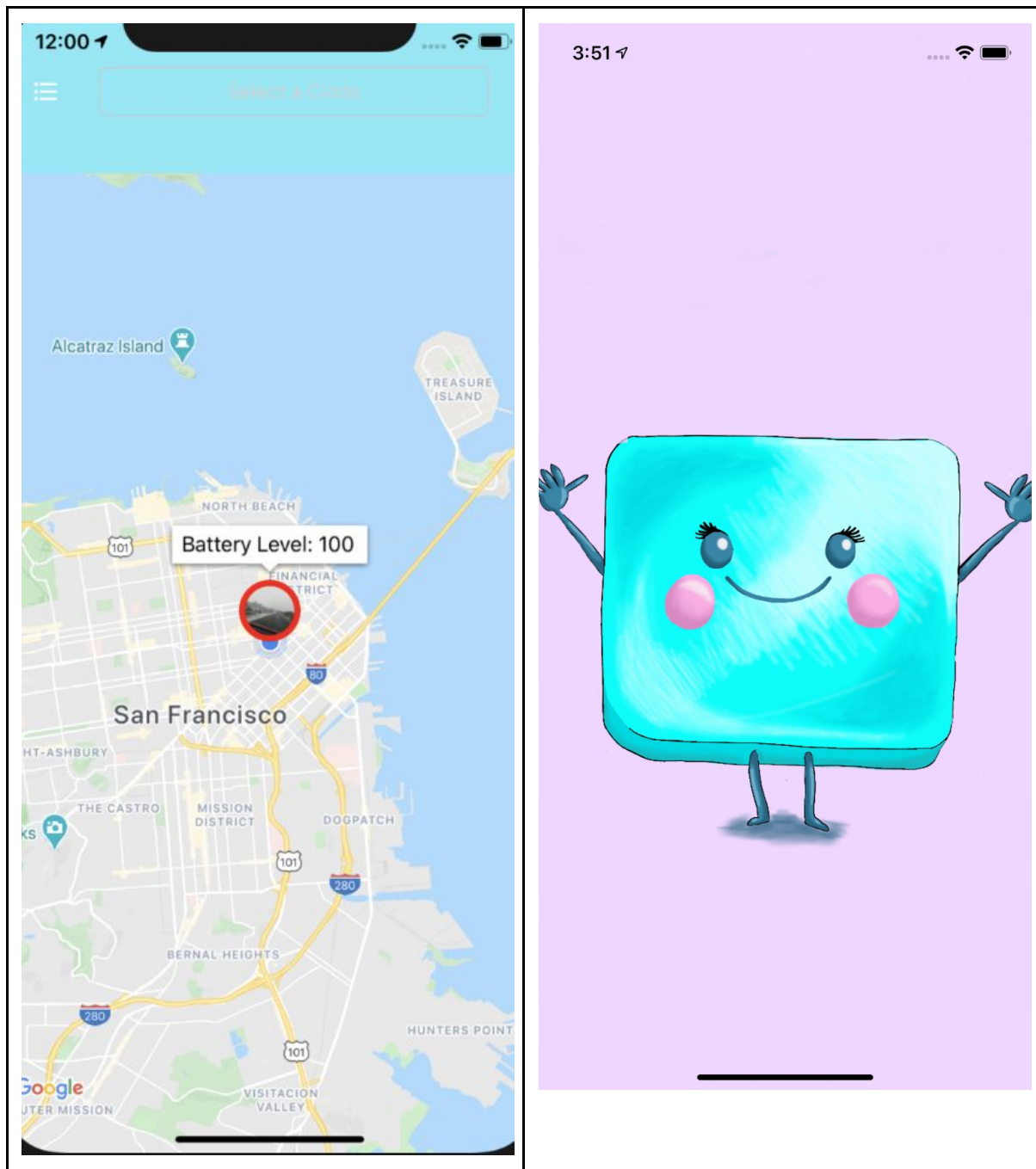
Hannah O'Connor

Follow Me - Start a session



Circle Map

Splash Screen



Phase 2

Taken on 21/04/2020










- **Test Metrics**

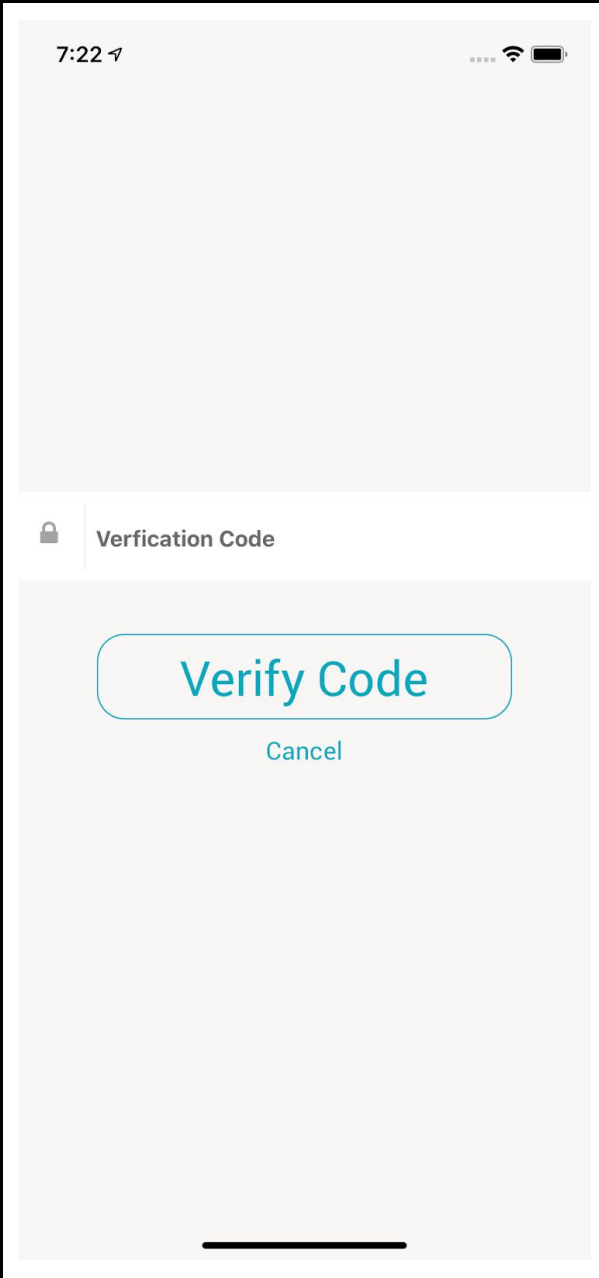
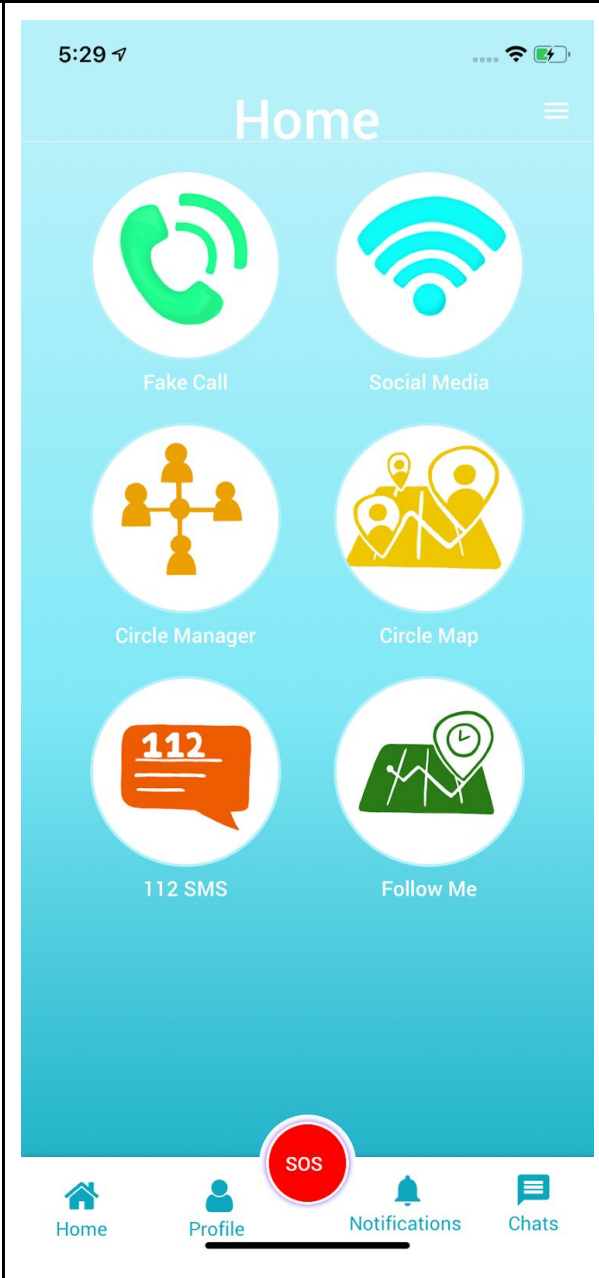
Test Pack	Executed By	Total	Pass	Fail	Total Executed	% Executed	% Pass Rate	% Fail Rate	Notes
Safe Zone Add	HOC	9	9	-	9	100%	100%	-	-
Safe Word Create	HOC	9	9	-	9	100%	100%	-	-
Notification Feed	HOC	6	6	-	6	100%	100%	-	-
Messages List	HOC	6	6	-	6	100%	100%	-	-
Medical Profile Setup	HOC	6	6	-	6	100%	100%	-	-
1-1 Message	HOC	12	12	-	12	100%	100%	-	-
Follow Me - Tracking User	HOC	6	6	-	6	100%	100%	-	-
Follow Me - Personal Session	HOC	9	9	-	9	100%	100%	-	-
Contact Us Form	HOC	3	3	-	3	100%	100%	-	-
Circle Manager	HOC	9	9	-	9	100%	100%	-	-
User Profile	HOC	6	6	-	6	100%	100%	-	-
SOS Mode	HOC	9	9	-	9	100%	100%	-	-
Fake Call	HOC	15	15	-	15	100%	100%	-	-


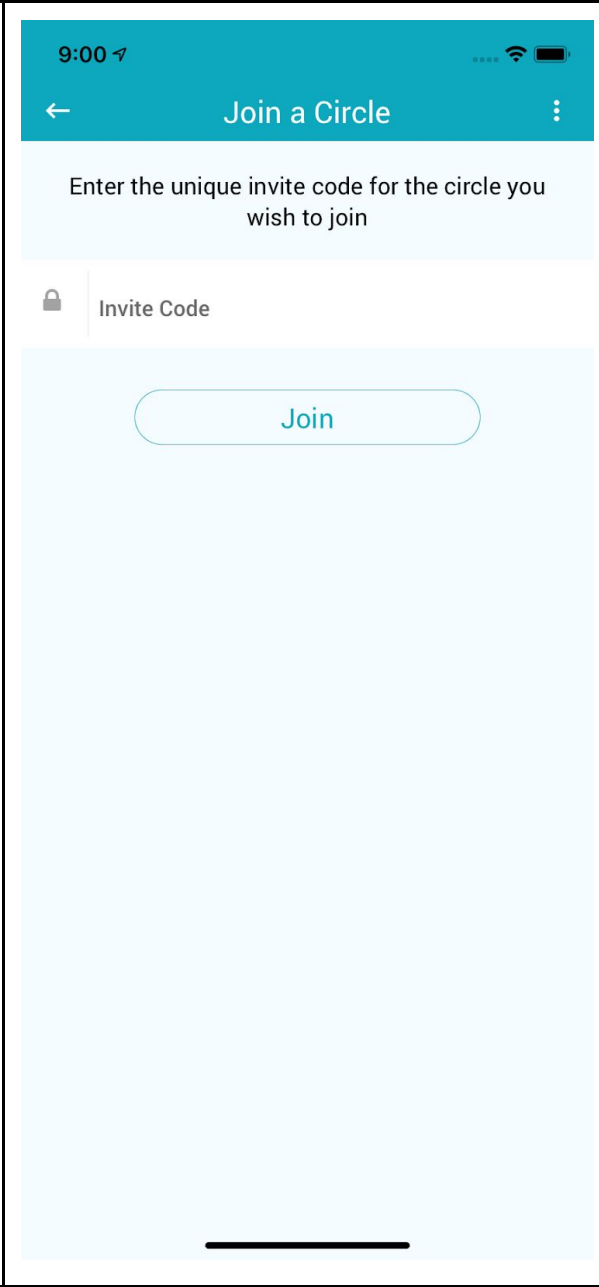
Social Media	HOC	15	15	-	15	100%	100%	-	-
Settings	HOC	9	9	-	9	100%	100%	-	-
Circle Create	HOC	15	15	-	15	100%	100%	-	-
Circle Join	HOC	6	6	-	6	100%	100%	-	-
Activity Logs	HOC	12	12	-	12	100%	100%	-	-
Registration	HOC	6	6	-	6	100%	100%	-	-
Verifying User	HOC	6	6	-	6	100%	100%	-	-
Home Screen	HOC	2	2	-	2	100%	100%	-	-
112 Text Generator	HOC	9	9	-	9	100%	100%	-	-
Overall Total		186	186	0	186	100%	100.00%	0.00%	

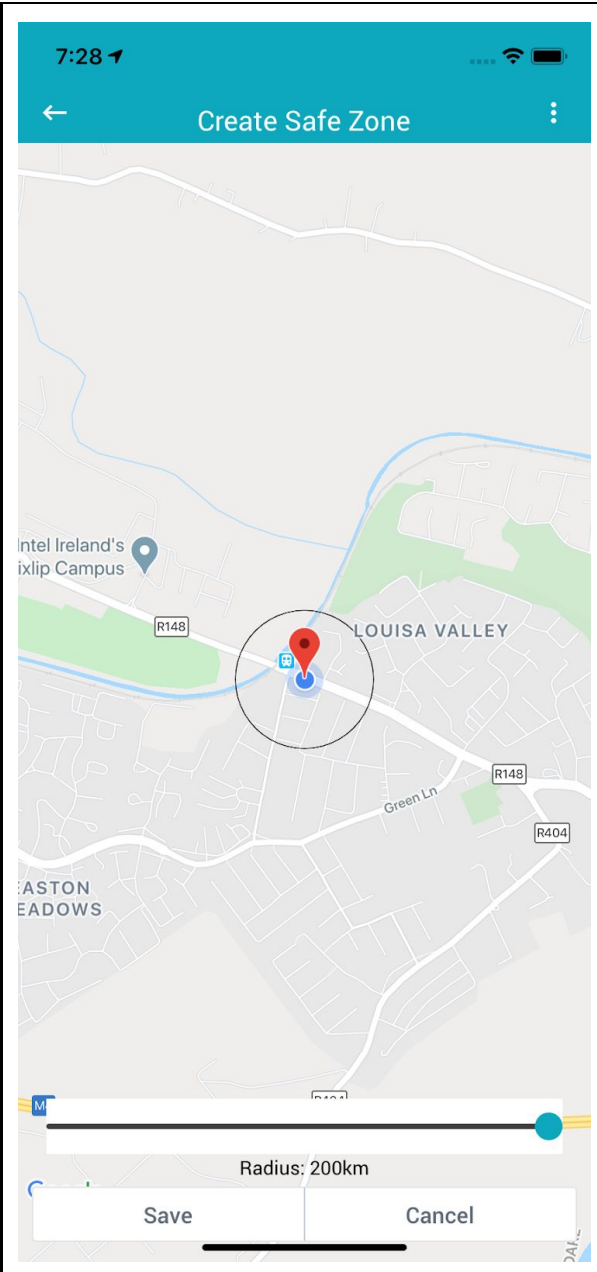
● UI Layouts

Welcome Screen	Registration Screen
----------------	---------------------

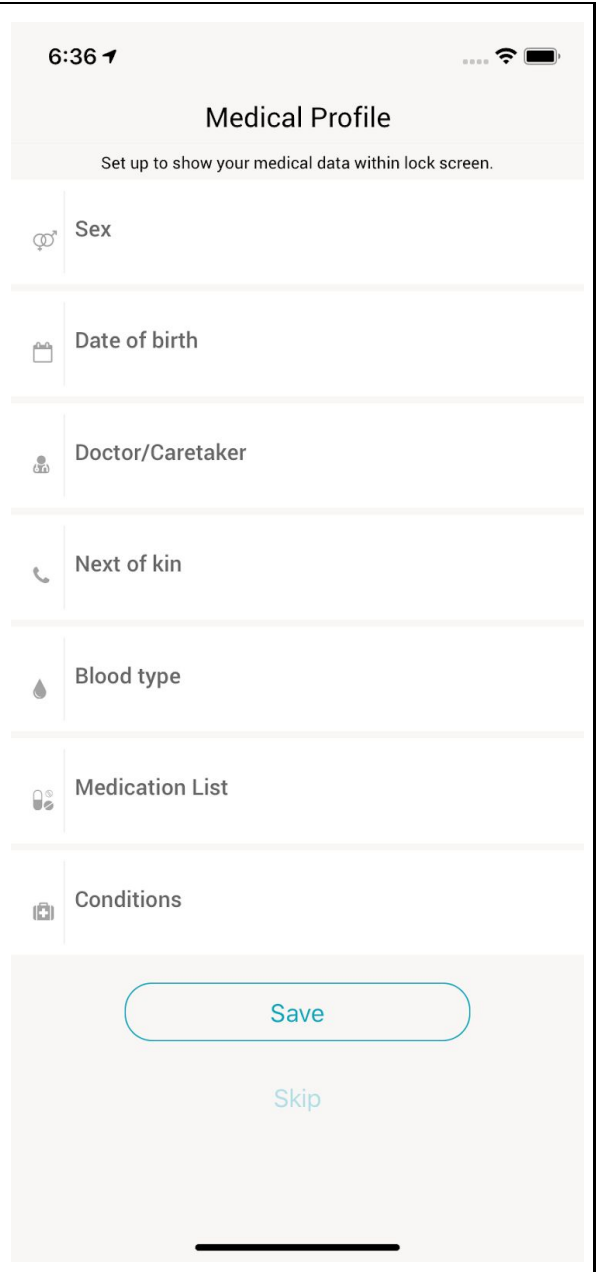
<div data-bbox="236 230 325 262">12:28</div> <div data-bbox="660 232 764 259">    </div> <div data-bbox="240 416 727 577">  </div> <div data-bbox="317 629 673 900">  </div> <div data-bbox="316 922 675 965">Personal Safety Application</div> <div data-bbox="288 1167 705 1252"> <div data-bbox="403 1182 587 1245">Sign Up</div> </div> <div data-bbox="414 1261 574 1296">Terms of use</div>	<div data-bbox="834 230 928 262">10:54</div> <div data-bbox="834 286 863 315">←</div> <div data-bbox="834 416 1324 577">  </div> <div data-bbox="967 613 1225 680"> Personal Safety Application Sign up to get Started. </div> <div data-bbox="826 741 852 775">  </div> <div data-bbox="866 732 1031 768">Phone Number</div> <div data-bbox="826 864 852 893">  </div> <div data-bbox="866 848 981 884">Full Name</div> <div data-bbox="826 976 852 1005">  </div> <div data-bbox="866 965 979 999">Password</div> <div data-bbox="1329 1041 1391 1068">Show</div> <div data-bbox="924 1072 1273 1128"> <div data-bbox="1038 1081 1153 1122">Sign Up</div> </div>
Verifying New User Screen	Home Screen

	
<p>Creating a Circle Screen</p>	<p>Joining a Circle Screen</p>



	
Creating a Safe Zone Screen	Setting up Medical Profile

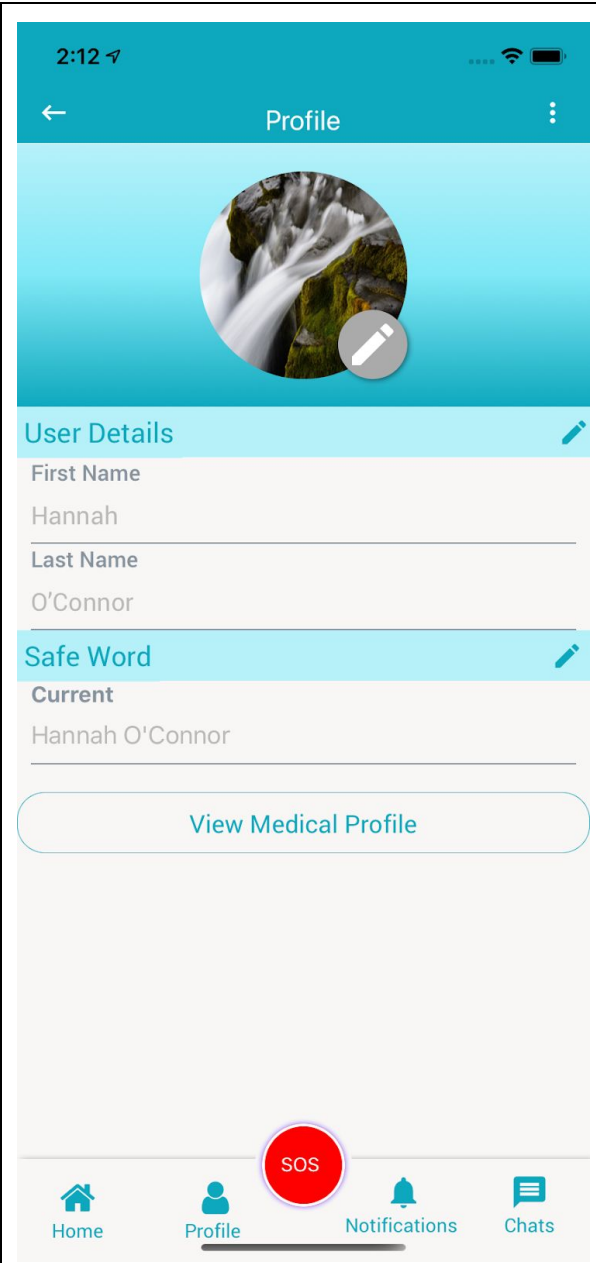


Setting up a Safe Word

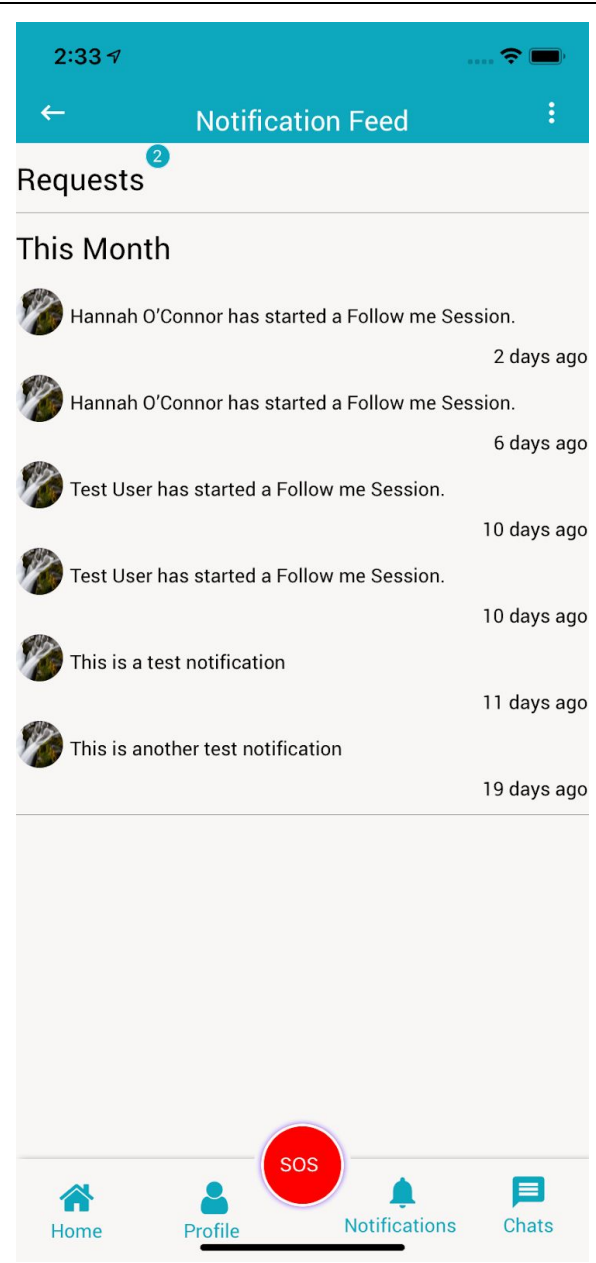


Uploading a Profile Picture

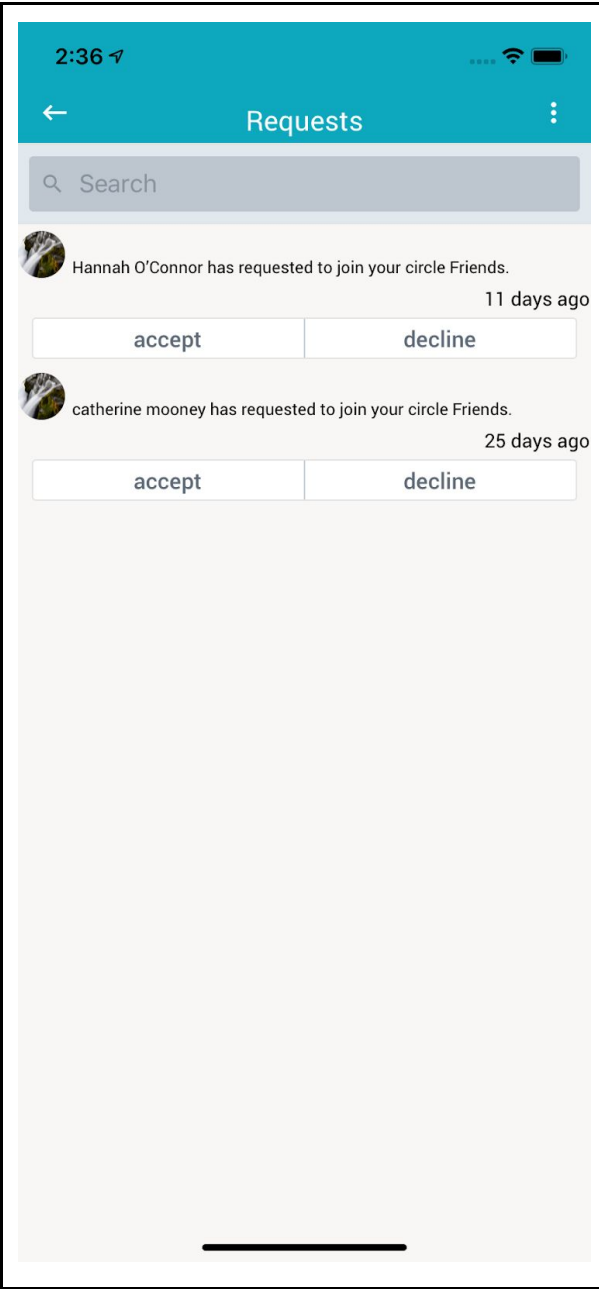
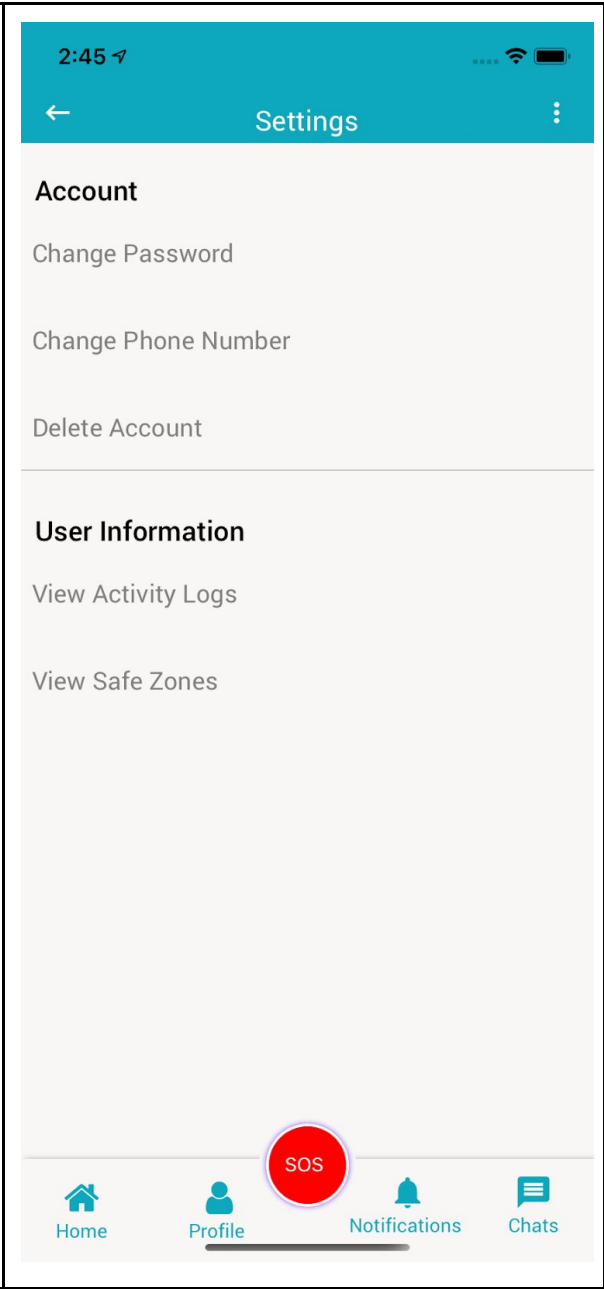
<div><div>2:19</div><div>← Create a Safe Word ⋮</div></div> <div><p>Create a safe word for your account to trigger SOS mode in times of need. Press the record button to get started!</p><p>Press the button and start speaking.</p><div></div><p>Skip</p></div>	<div><div>2:22</div><div>← Profile Picture Setup ⋮</div></div> <div><p>Upload a profile picture by pressing the the below circle.</p><div></div><p>Skip</p></div>
User Profile	Notifications

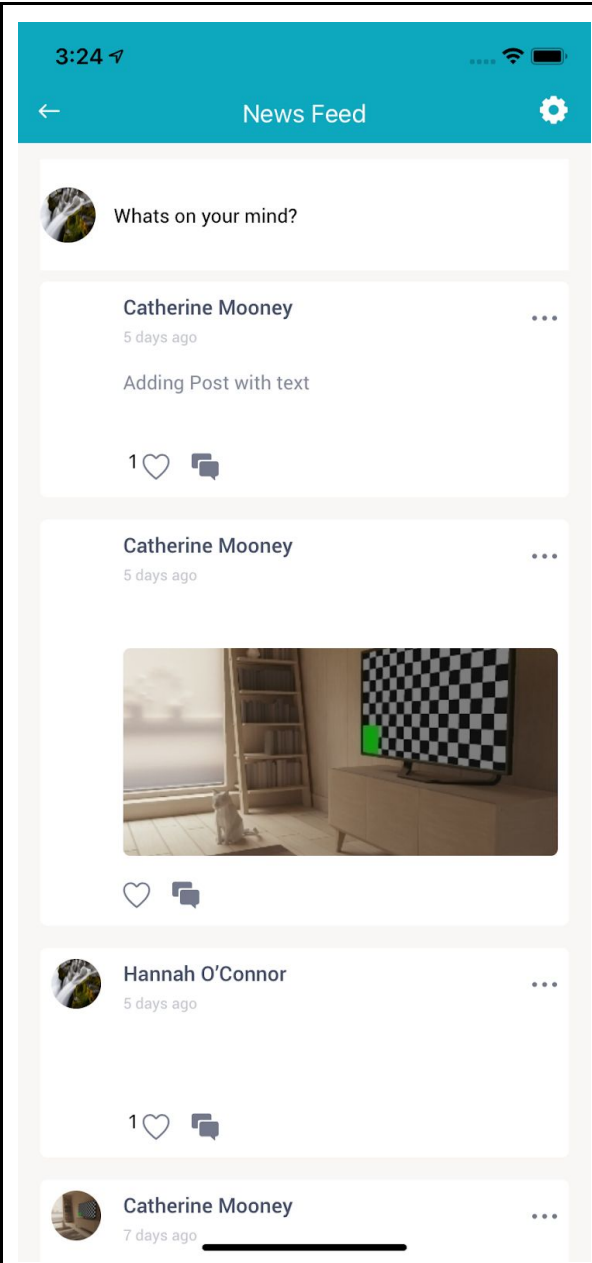


Requests

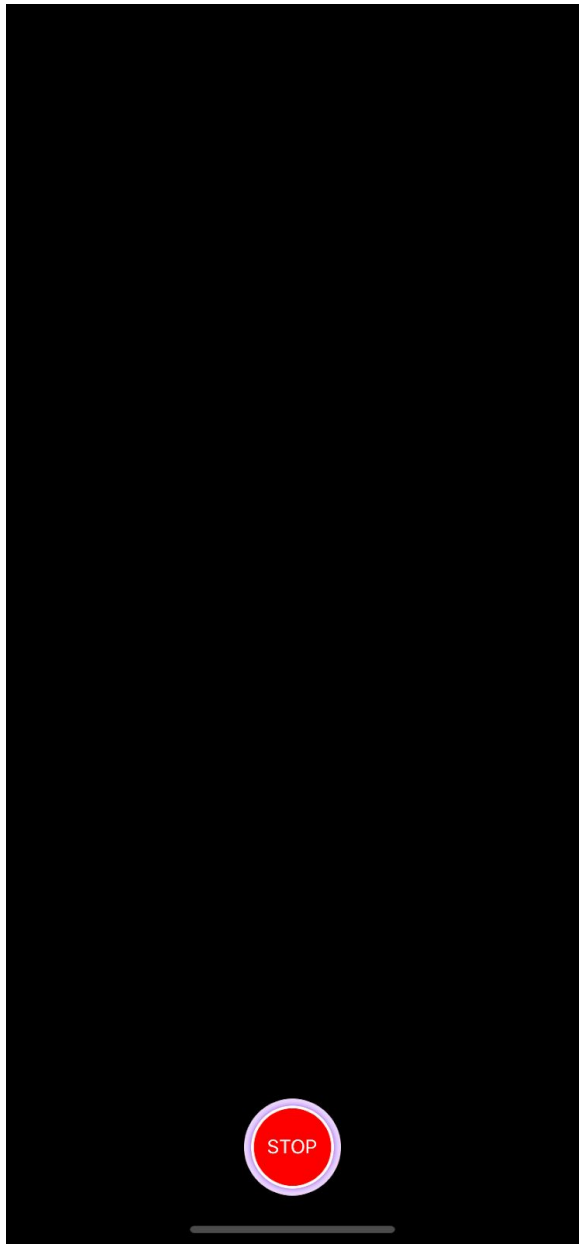


Settings

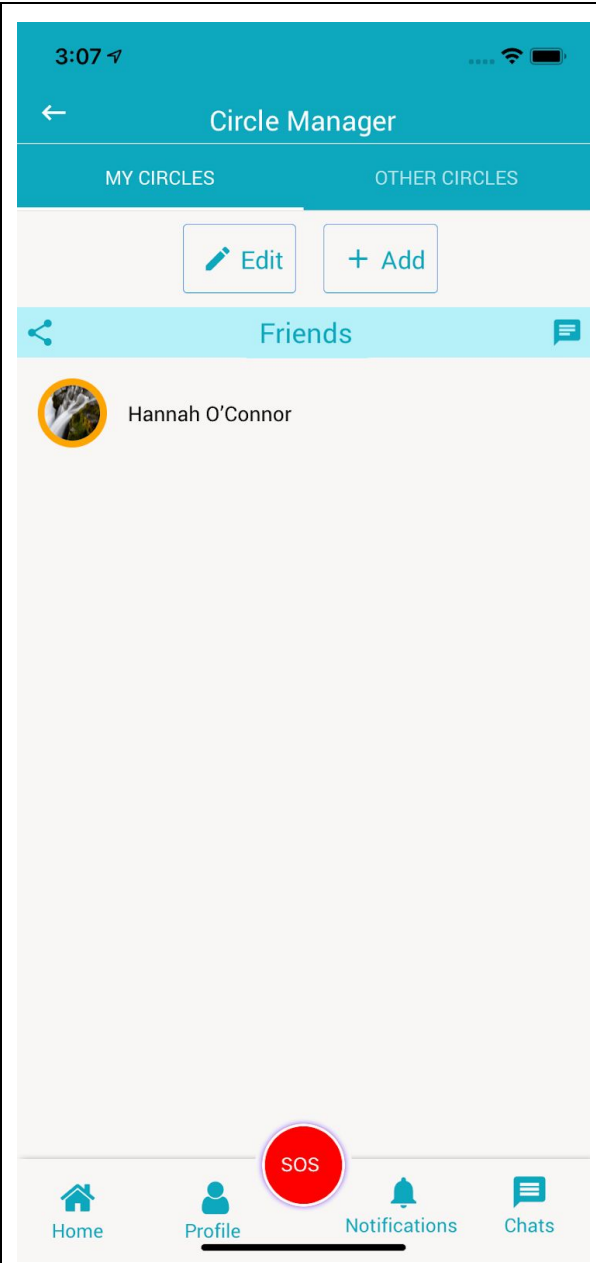
	
Social Media	SOS Mode



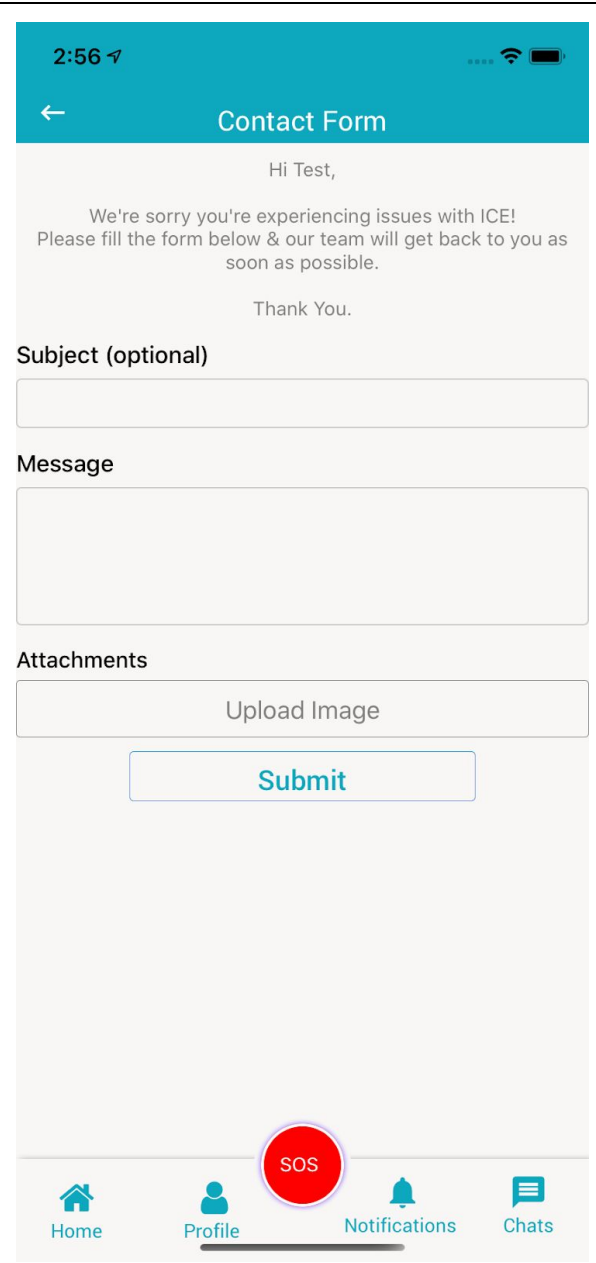
Circle Manager - My Circles



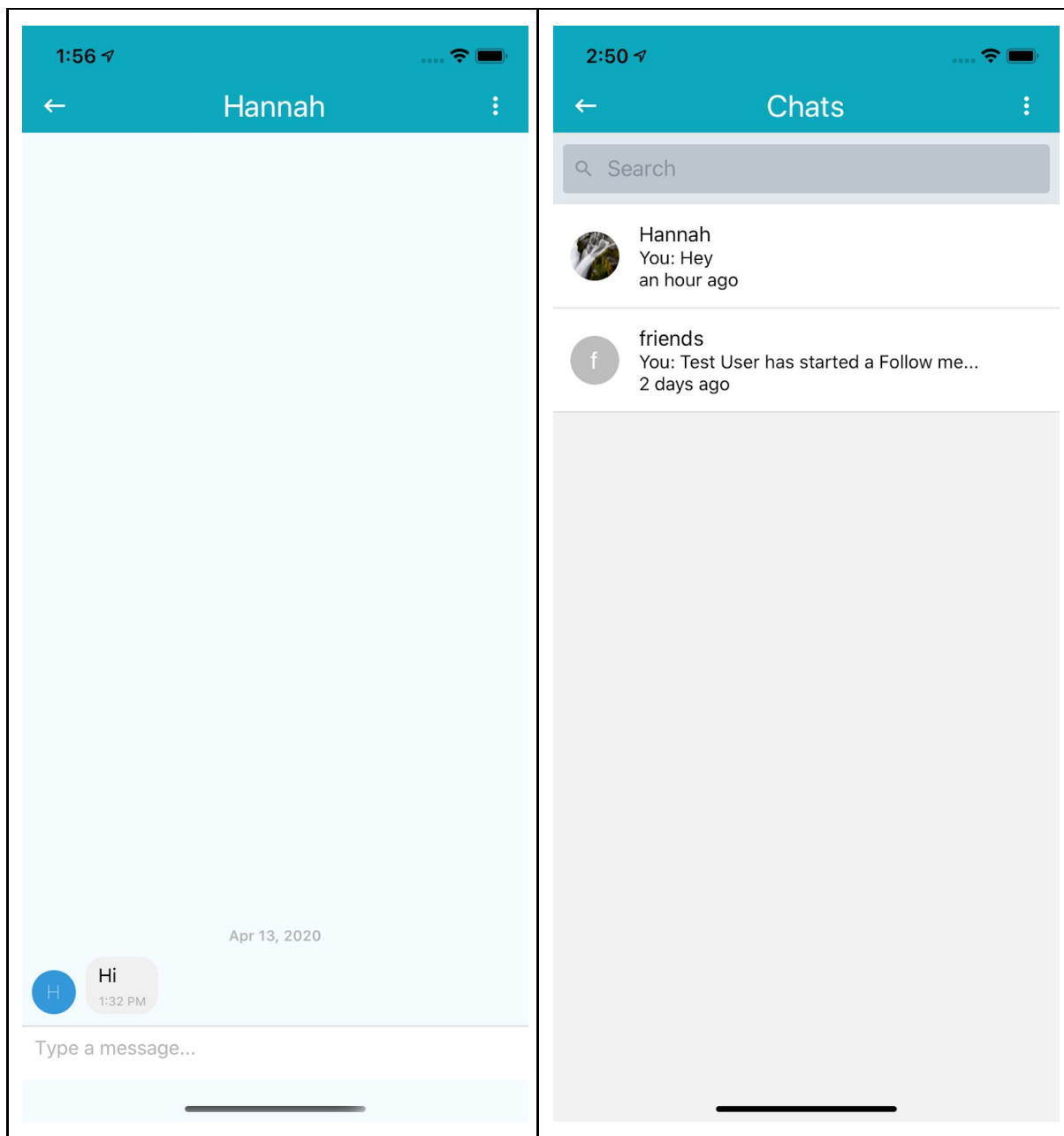
Contact Us



Chat Screen

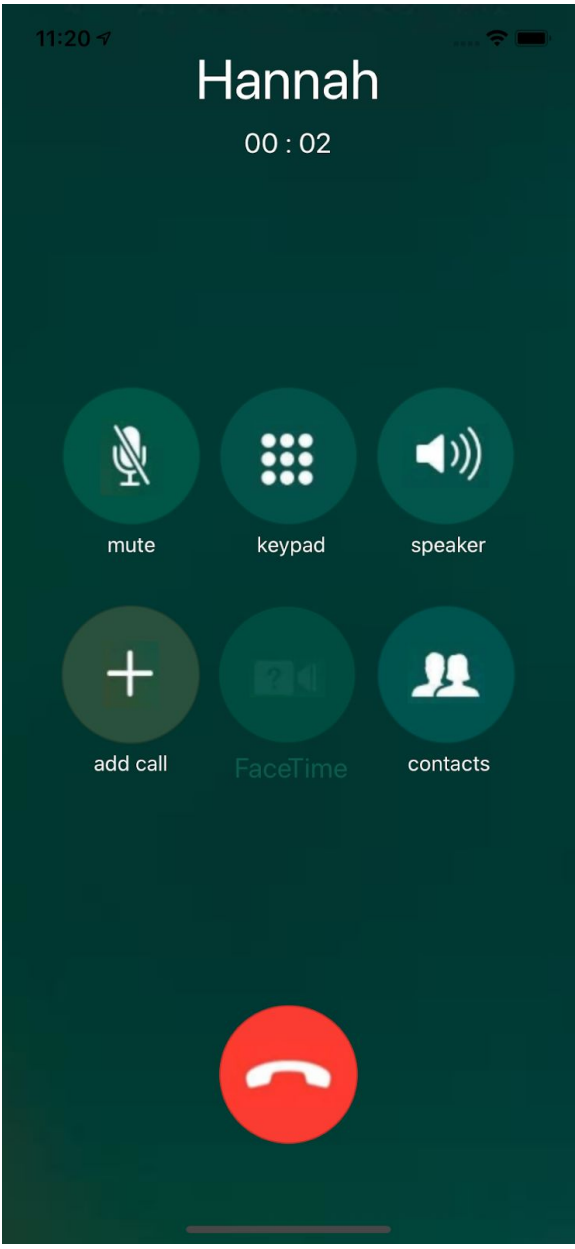
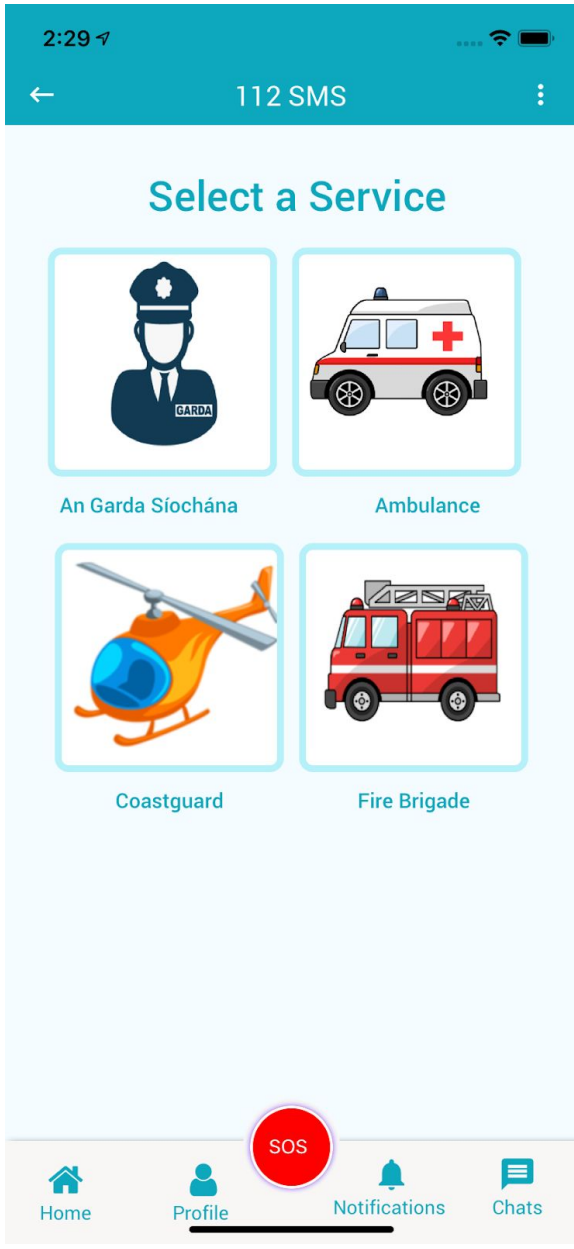


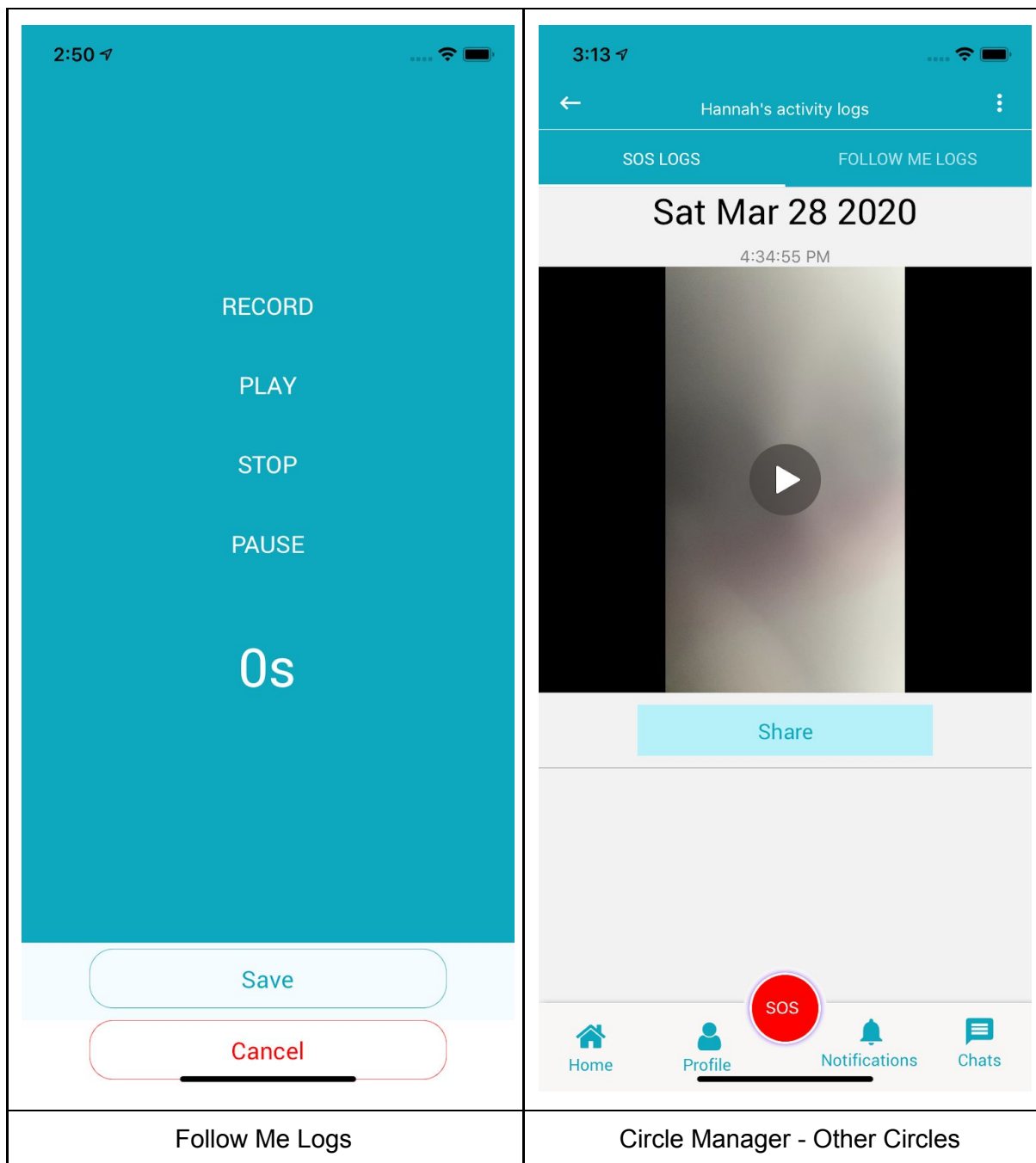
Messages Screen

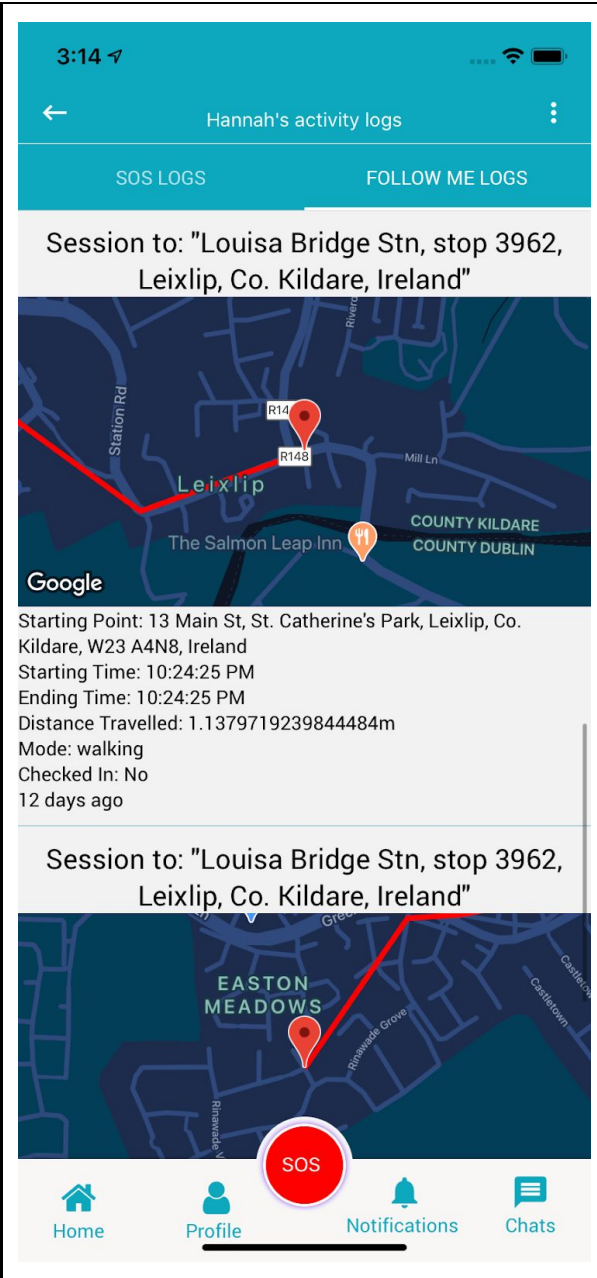


Fake Call

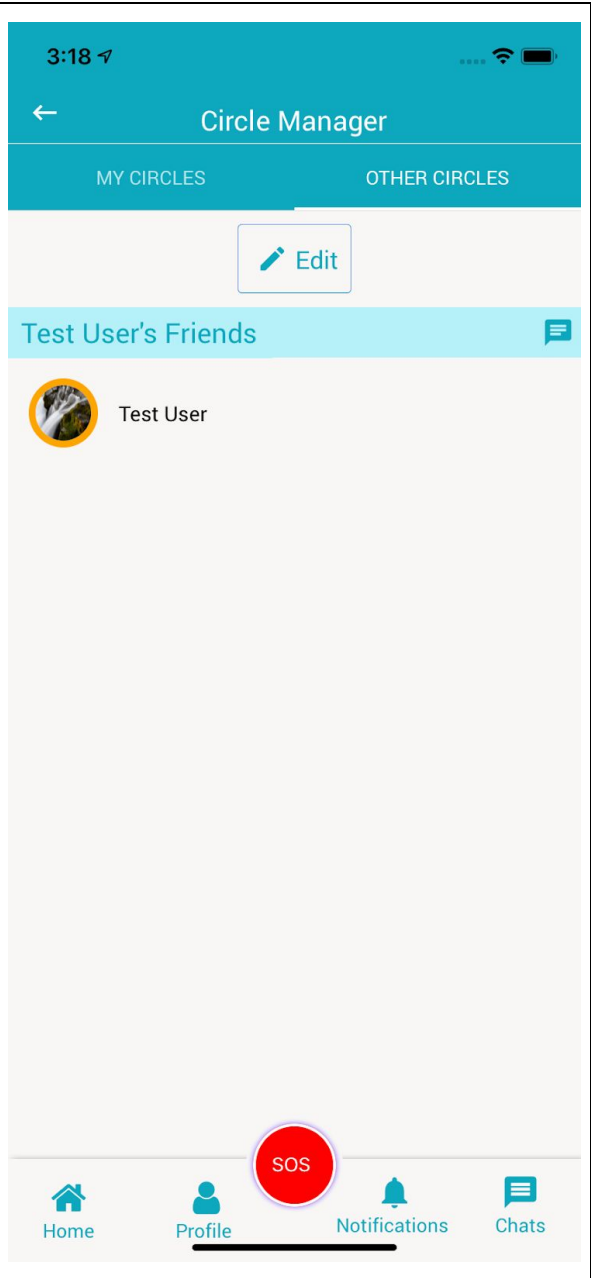
112 Message

 <p>Fake Call - Recording Message</p>	 <p>SOS Logs</p>
---	---

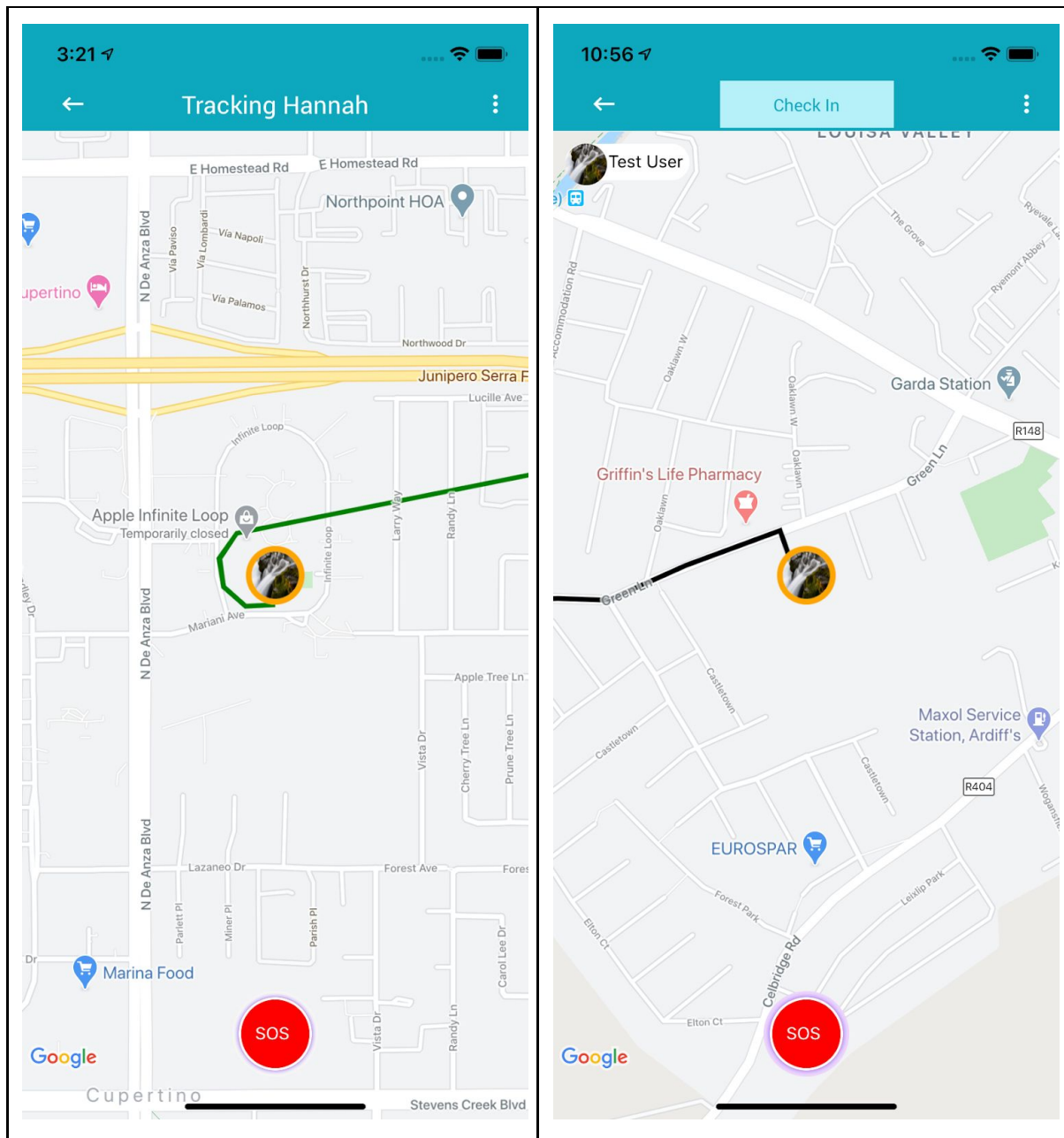




Follow Me - Tracking User

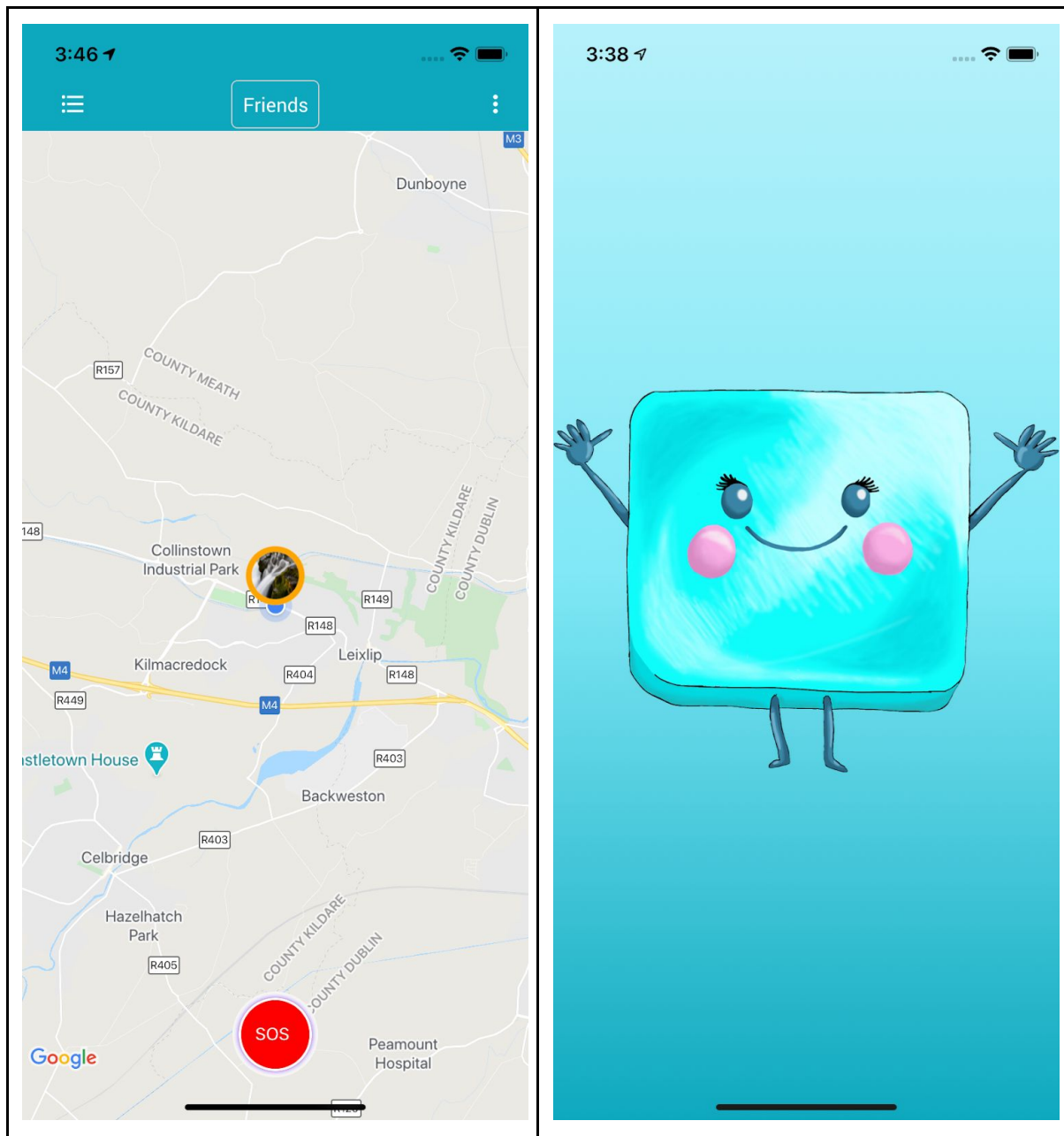


Follow Me - Start a session



Circle Map

Splash Screen



Appendices

- [1] <https://medium.muz.li/top-5-ui-fonts-for-website-mobile-apps-d78829e58f7e>
- [2] <https://coschedule.com/blog/color-psychology-marketing/>