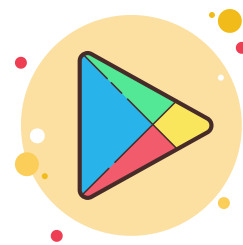


GetSafe[®]

Your personal body guard



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Steven Roseik	900171807



Mile Stones

MS1 Idea Proposal & System Overview *p.3*

MS2 Initial UI Design + Basic Functionalities *p.9*

MS3 Final UI Design + Functional *p.16*

MS4 Complete Android app + iOS Prototype *p.22*

Mile Stone 1

Idea Proposal

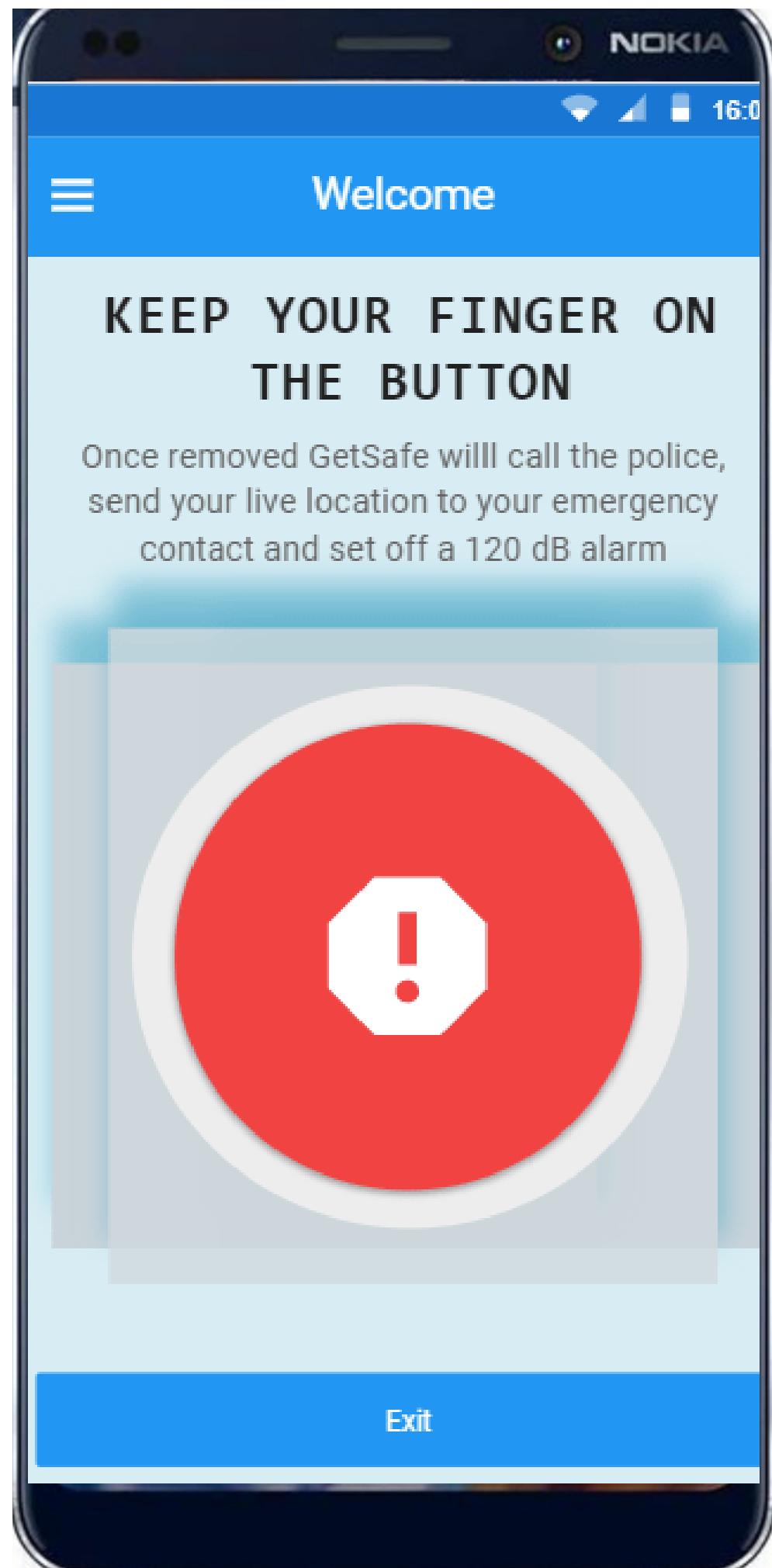
Main Activites

System Overview



**99.3% of Women in Egypt
Have Experienced Sexual
Harassment**

**Physical Assault rates
have grown by 53.6% in
recent years**



GetSafe's Main Features

Call the police

Send Live Location to
Emergency Contact

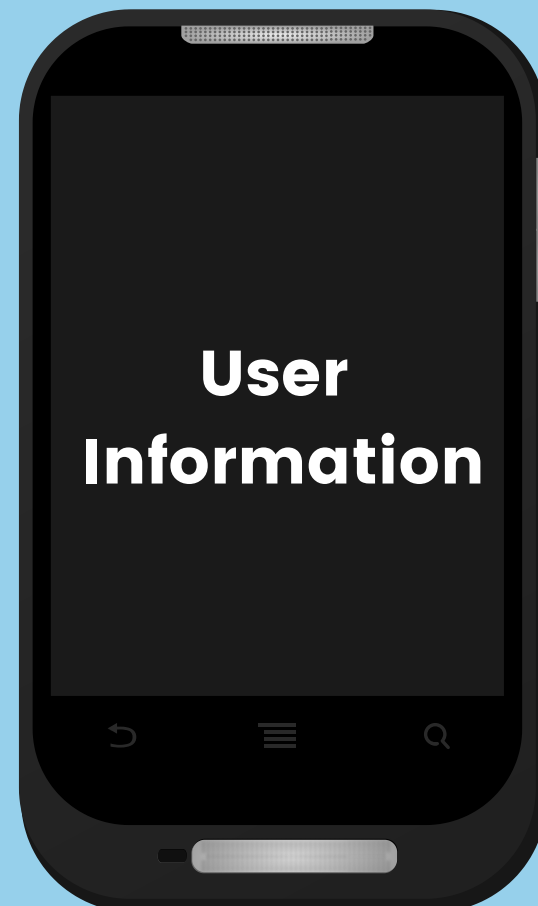
Set a Loud 120 dB
Alarm

Start Recording
Video & Sound

GetSafe's Main Activities



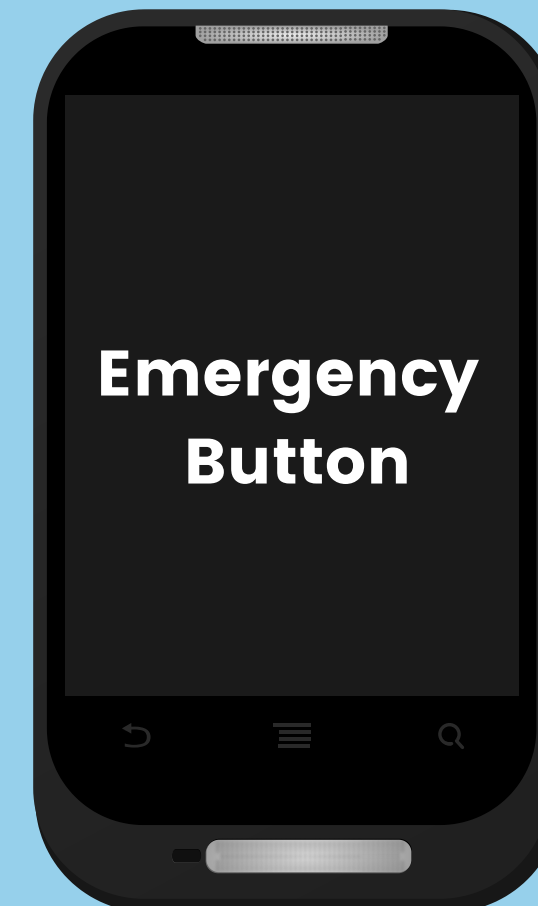
User can login to an existing account or create a new account



User can enter personal information such as emergency contact



User can choose the actions s/he want to be executed when button is triggered

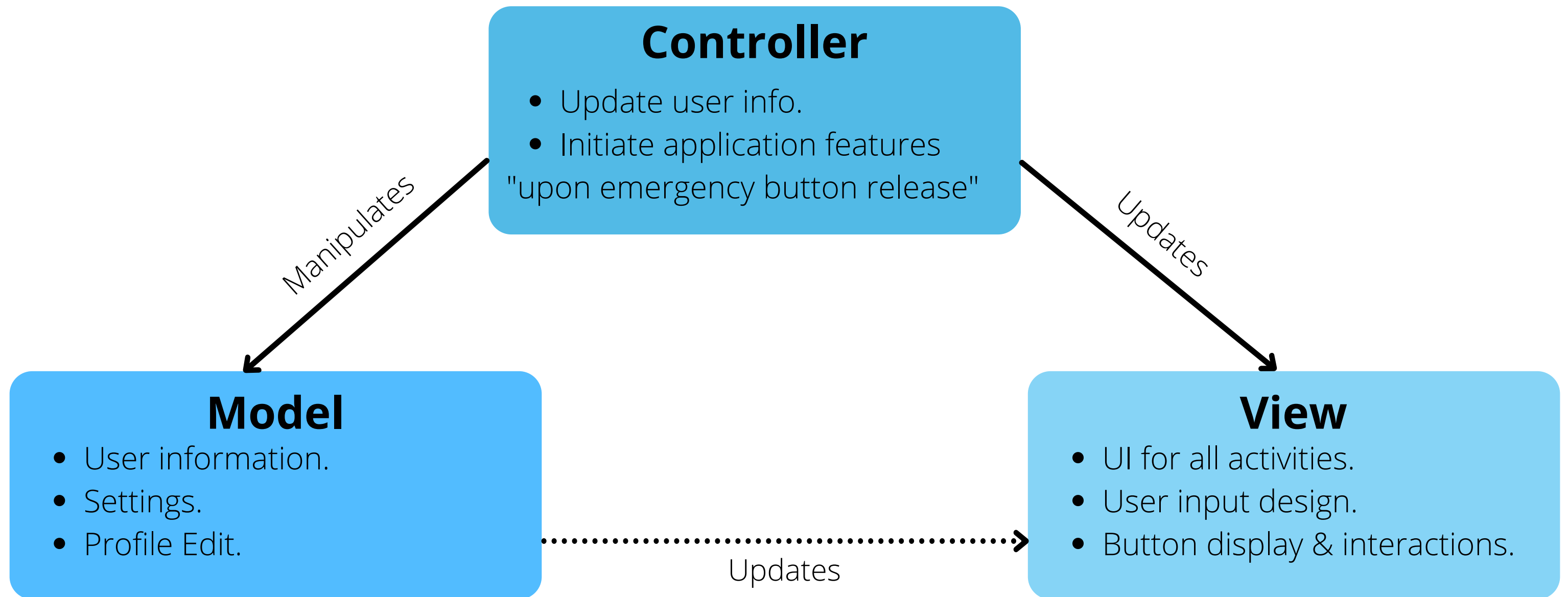


Main activity where the user can deploy the button when in danger



Service provider that gives insight about harassment hotspots

MVC System Design



GetSafe's Service Providers



Phone

Call police & emergency contacts



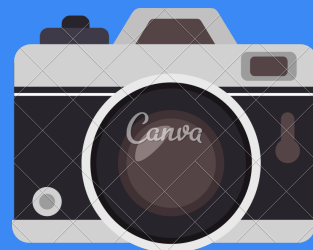
Whatsapp

Send live location & alerts



HarassMap

View & alert when entering danger zones



Mic & Camera

Start recording when button is released



Speaker

High dB sirens

The GetSafe logo, with 'GetSafe' in blue and a registered trademark symbol (®) to the right.

GetSafe[®]

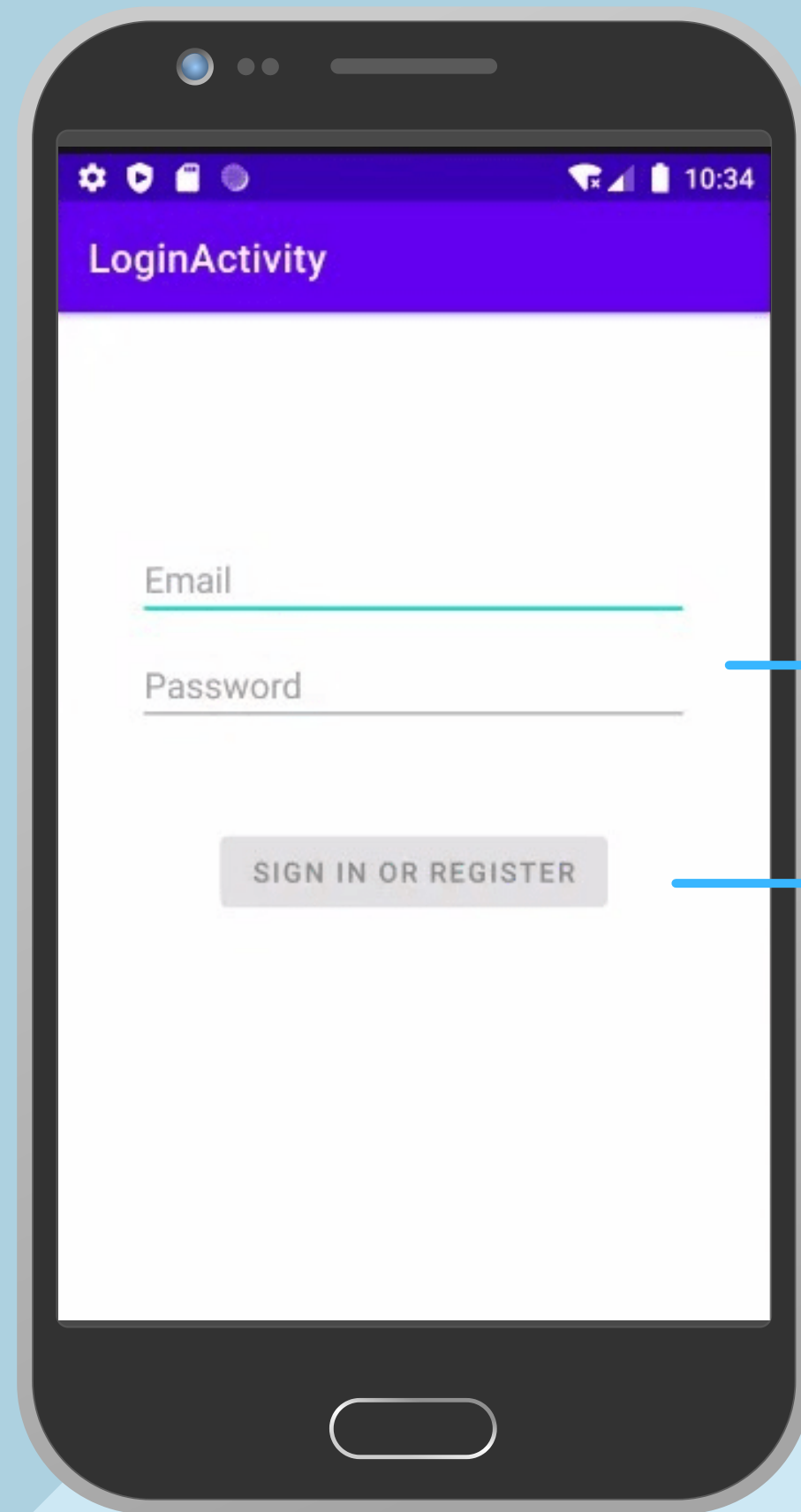
Your personal body guard

Mile Stone 2

Initial UI Design

Basic Functionalities

Under the hood implementation



User Login

On Initial Launch - *User Login*

On Launch afterwards - *Main Button*

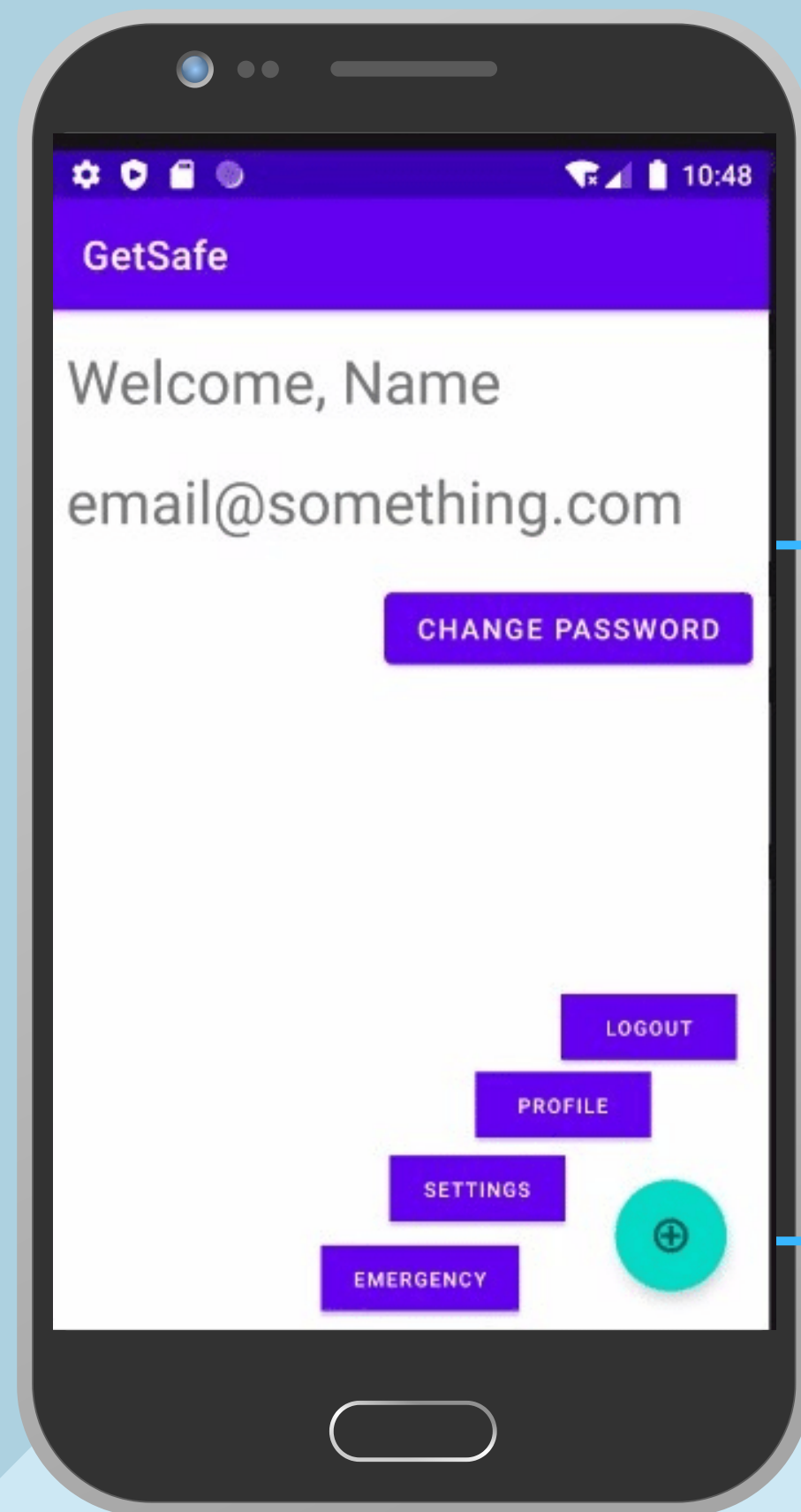
1

User can enter their credentials to Login

2

Login or Signing up to a new account

User Information Page



User Info

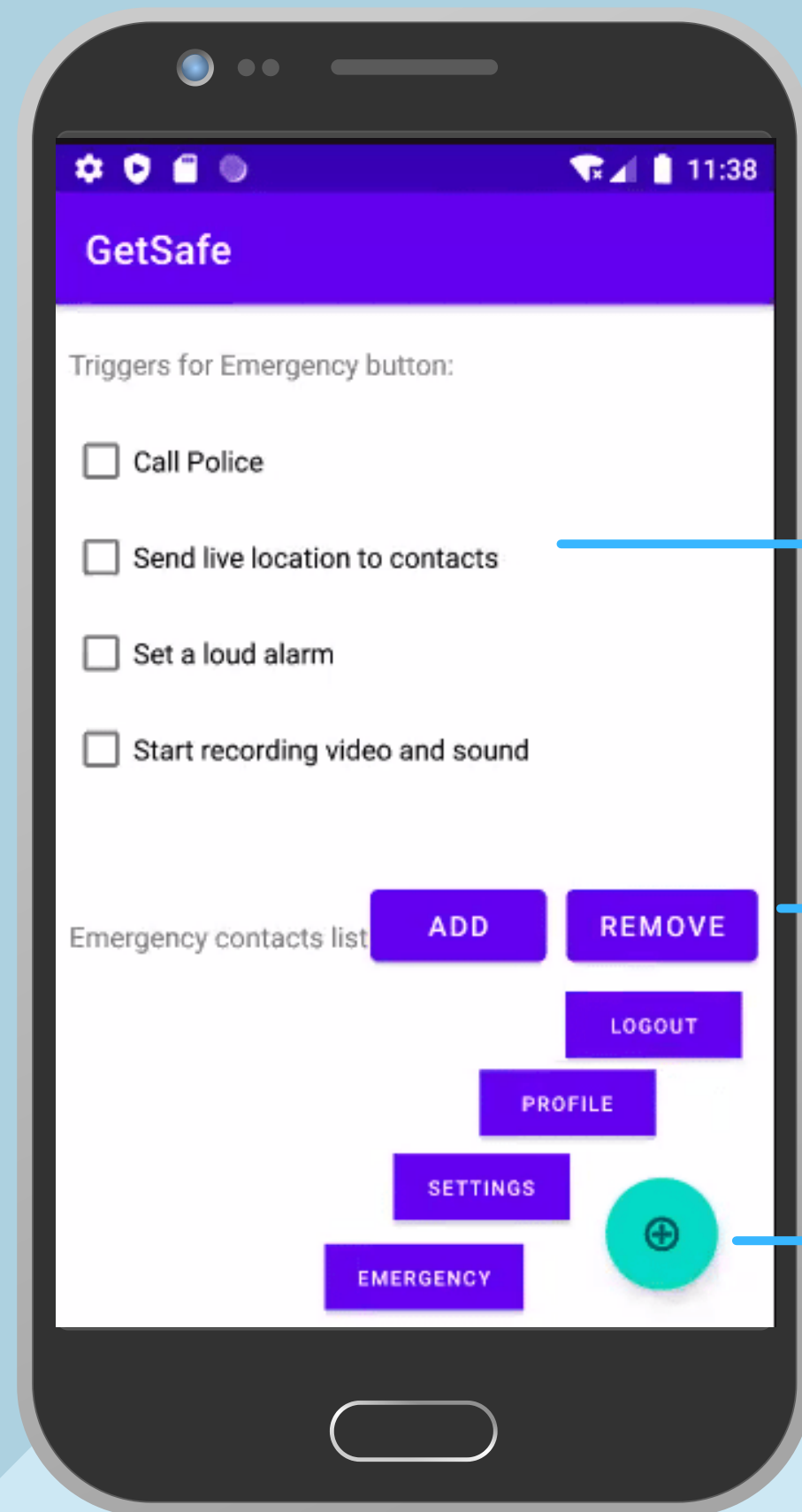
1

User can change their information, such as username, password and email

2

Navigation between pages

User Settings Page



Settings

1

User can set up the desired actions to be executed by the application in case of emergency

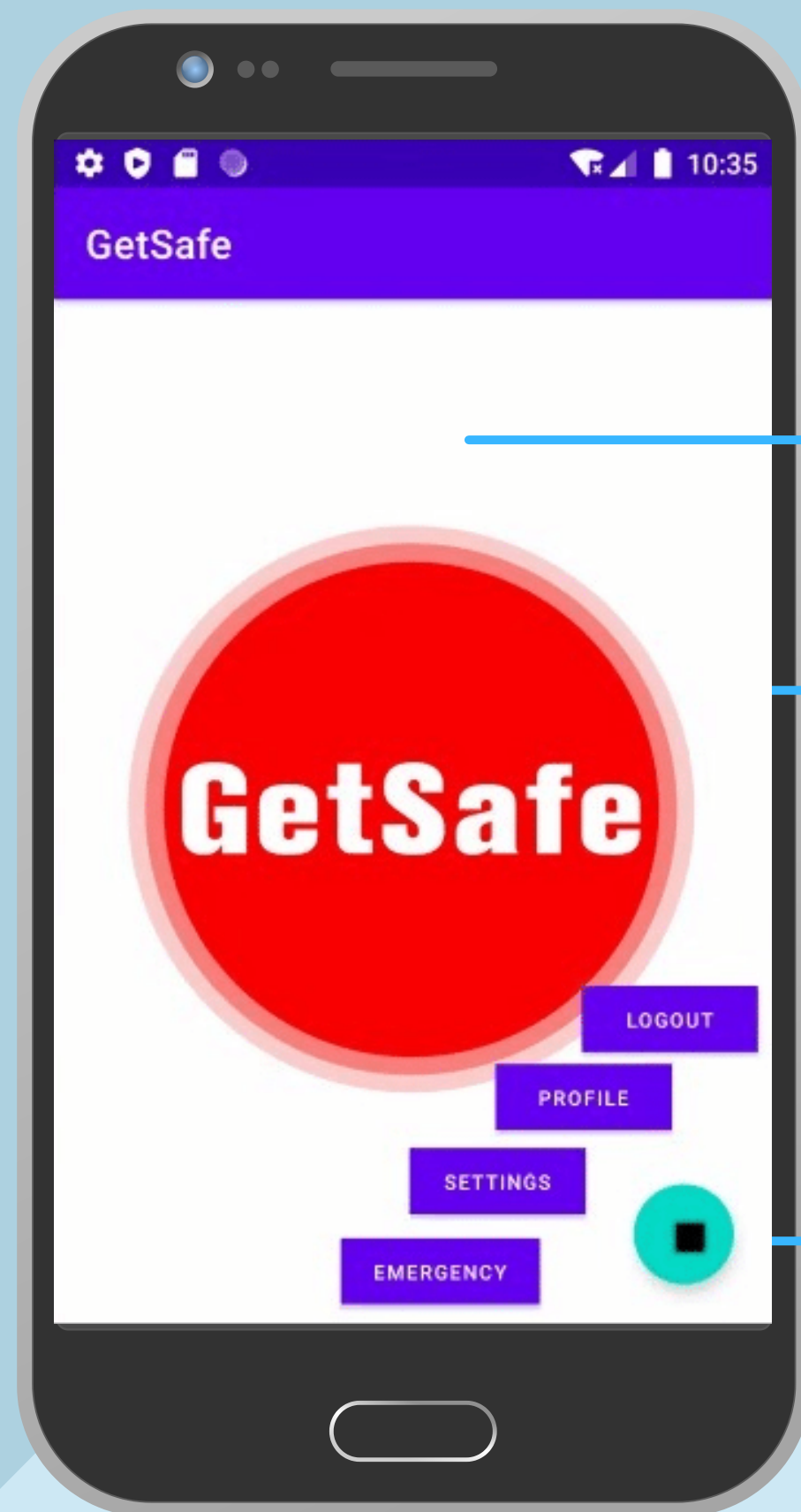
2

User can edit their list of emergency contacts

3

Navigation between pages

Emergency Main Button



1

User can trigger the emergency button on release

2

User can cancel the emergency request on button swipe up

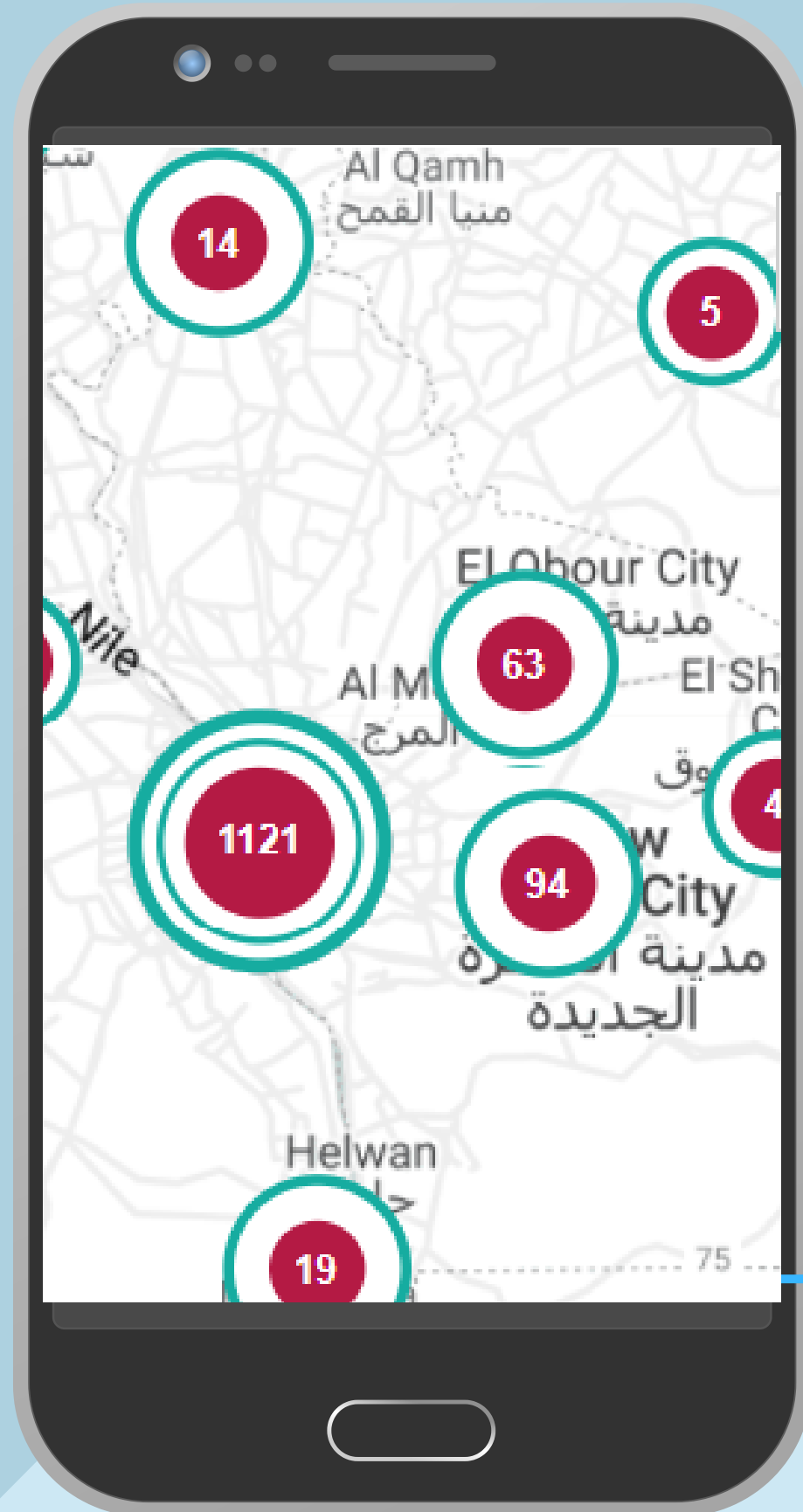
3

Navigation between pages

Main Button

HarassMap Service

Users can view harassment hotspots on the map using HarassMap.org



1

Navigation between pages

HarassMap Under the Hood

The screenshot displays the HarassMap web application. On the left, there's a sidebar with controls for selecting pages, locations (100), and extracting names, along with a 'Get Data' button. Below this, there's a 'Selection Node' dropdown set to '4th td' and a checkbox for 'Wait up to 60 seconds for elements to appear'. The main content area shows a table of locations with columns for name, address, and date. The table is currently displaying 185 items. Below the table, there's a pagination bar with numbers 1 through 8, and a 'Show more data' button. At the bottom, there's a JSON data export section with a 'Show more data' button and a 'Visuals enabled (advanced)' checkbox.

الاسم	العنوان	التاريخ
مدينتي القاهرة	مدينتي القاهرة	2020 / 10 / 07
مدينتي القاهرة	مدينتي القاهرة	2020 / 10 / 03
مدينتي القاهرة	مدينتي القاهرة	2020 / 09 / 28
مدينتي القاهرة	مدينتي القاهرة	2020 / 09 / 21

```
{
  "name": "Cairo",
  "name": "The Wahat Route to Mosary(turn before MSA University), RADATEK AL ANHAM",
  "name": "مدينتي القاهرة",
  "name": "Anchorage, Alaska",
  "name": "Doxapatri 1, Athens Greece",
  "name": "موقف الجراج بجزر السويس القاهرة",
  "name": "موقف الجراج بجزر السويس القاهرة"
}
```

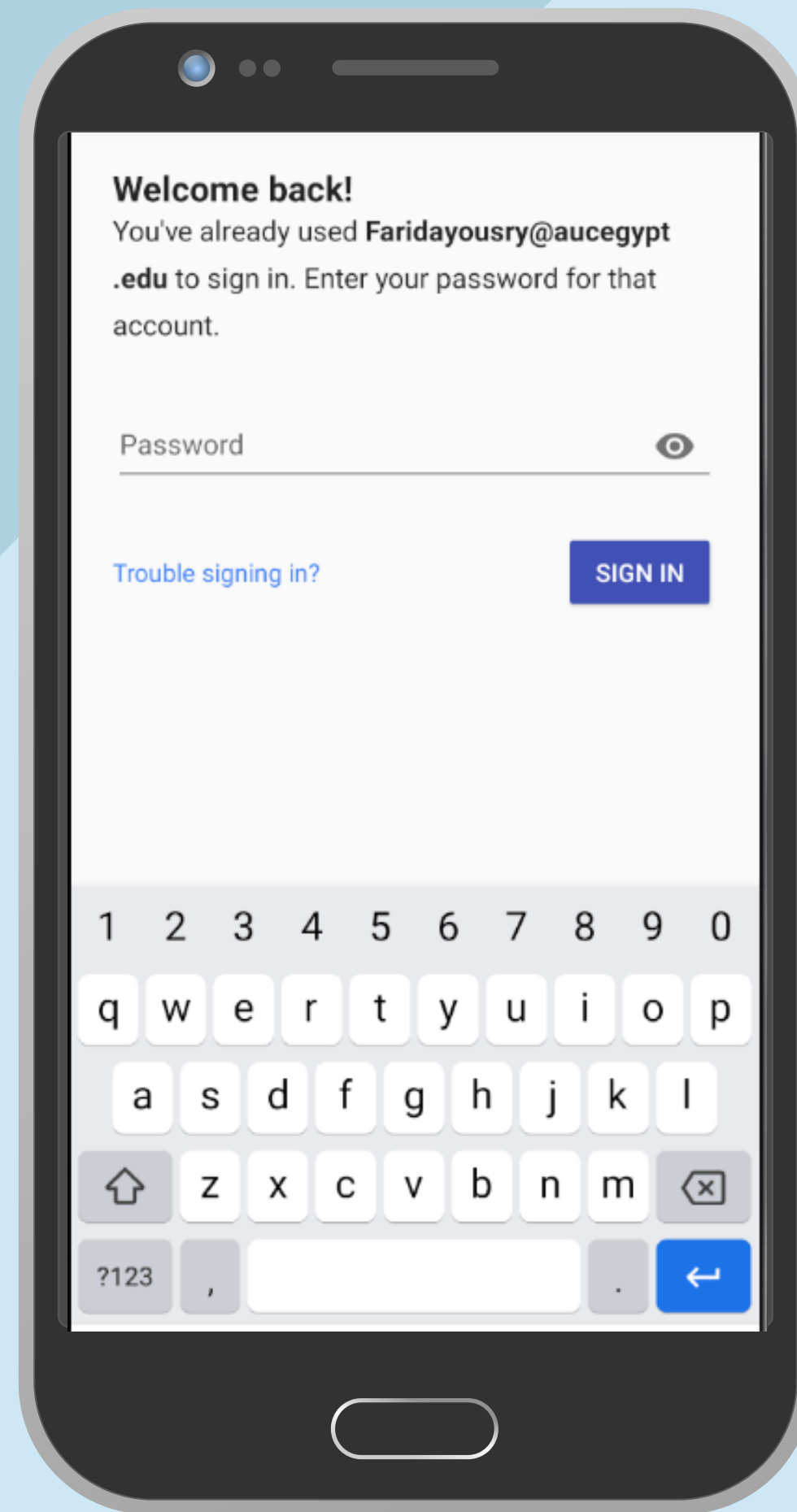
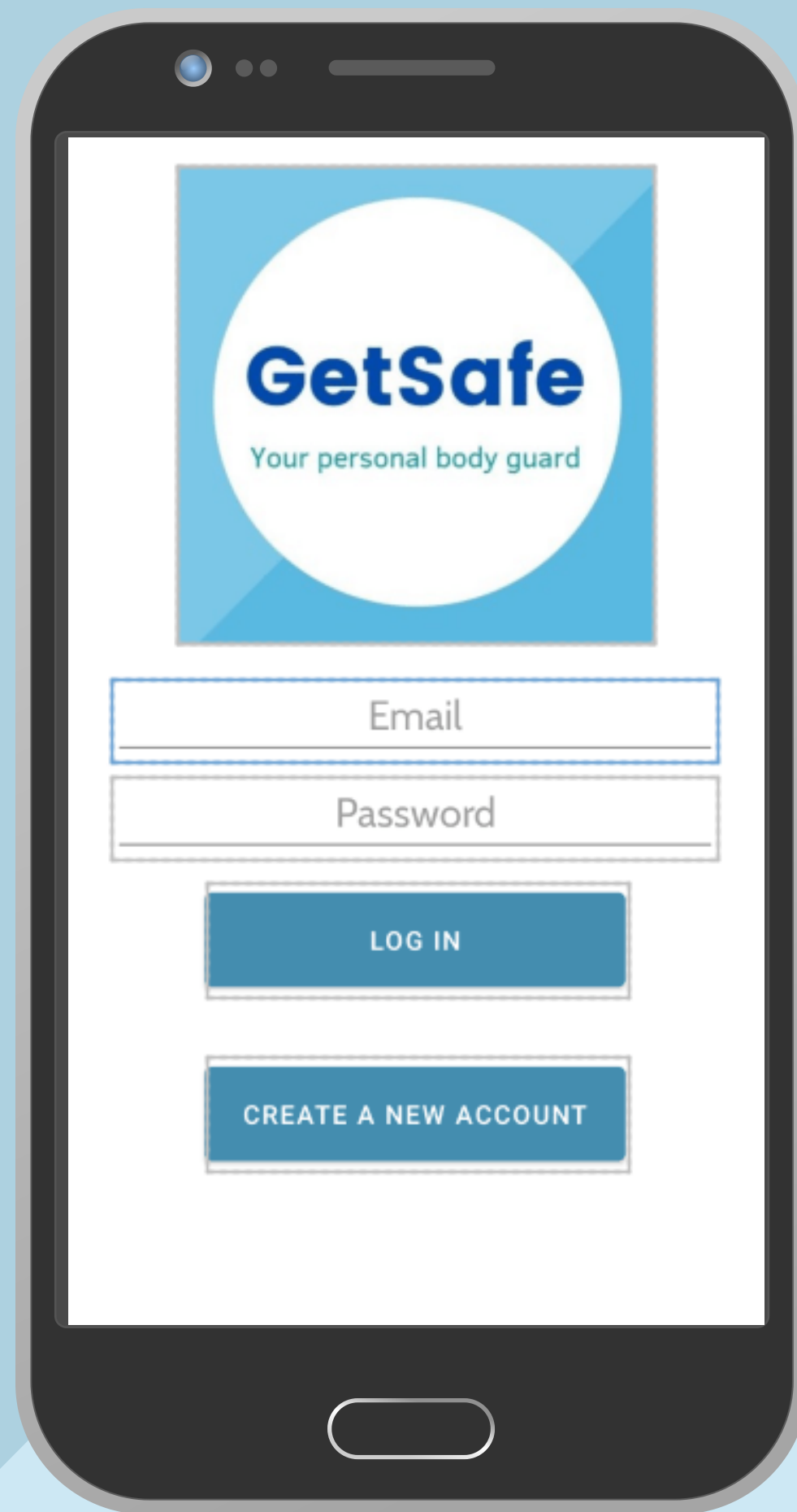
Map Data will be extracted as a JSON object from HarassMap then utilized to send warning notifications when 'walking' into danger zones with frequent cases.

Mile Stone 3

Final UI Design

Mostly Function

Back-end + Firebase



Log In - Updated

On initial launch – the user is directed to the login page.

Every other launch afterwards directs to the main button page for ease of access during emergencies.

Login & sign up page has been implemented using firebase API's

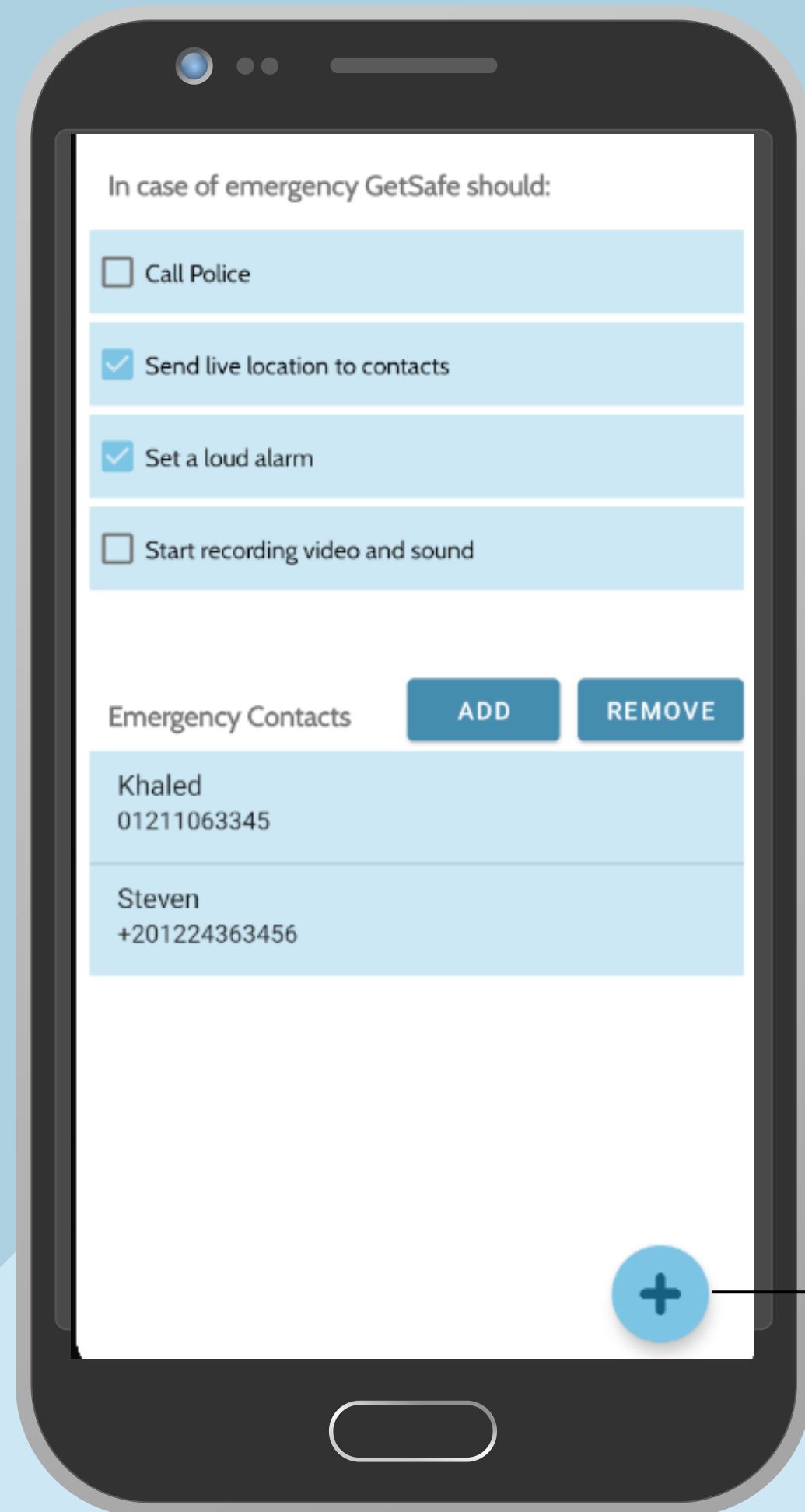


Main Button - Updated

In the case of emergency the user can press on the main button, which if released unintentionally, triggers the procedures priorly specified by the user in the settings.

In the case that the user no longer feels endangered, they can opt to cancel the emergency procedures through swiping up to click on the abort button.

The user can expand the action button to navigate through the application

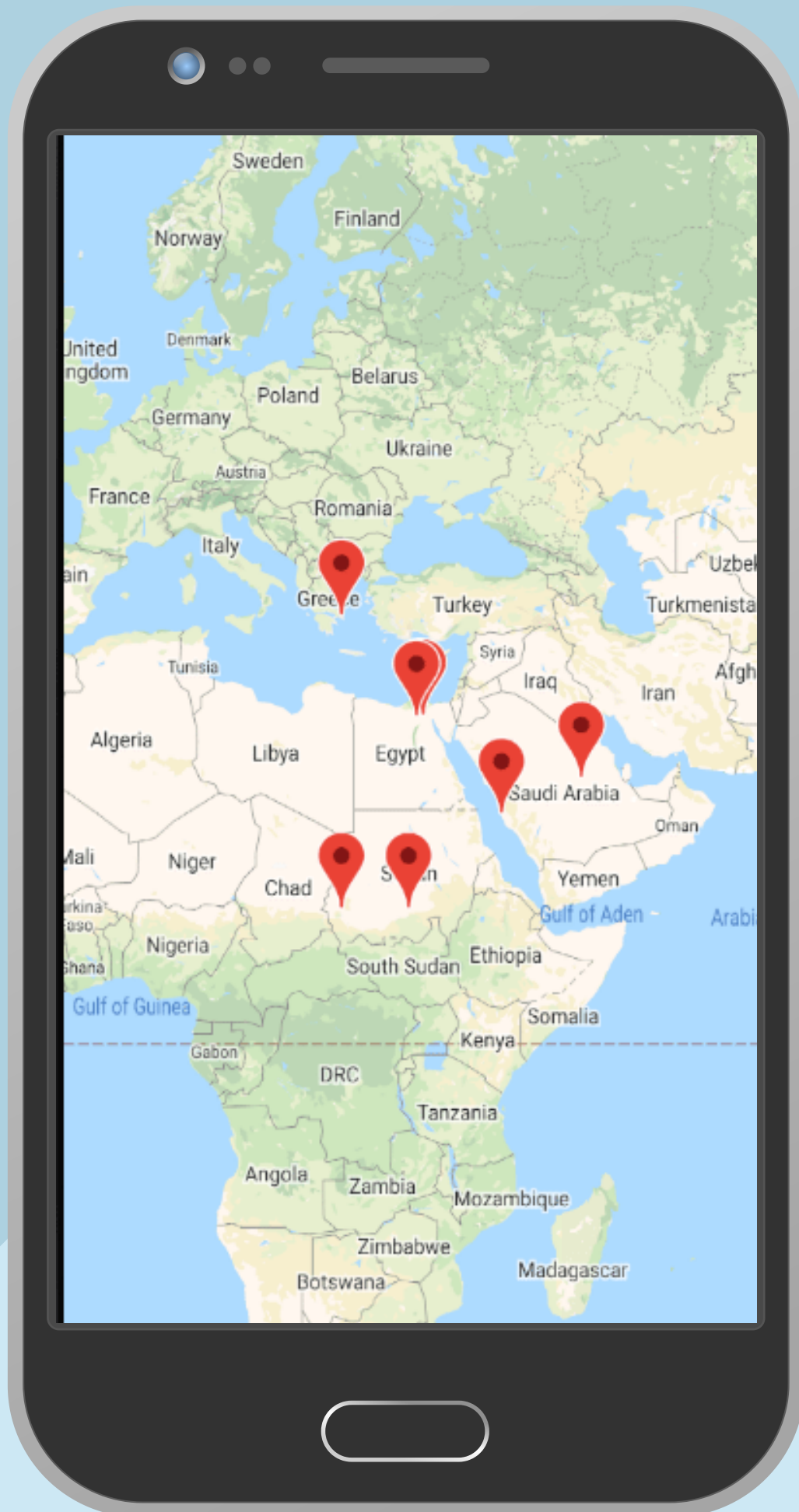


User Settings – Updated

User can customize the procedures they wish to be executed in the case of emergencies.

In addition, they can add and remove contacts to their list of Emergency contacts, who will be sent the user's location during emergencies

The user can expand the action button to navigate through the application



HarassMap Service - Updated

The user can access a map showing harassment hotspots nearby, in addition to being notified when near dangerous areas.

Latitude & Longitude data has been extracted and parsed from the [HarassMap.org](https://www.harassmap.org) website in the form of JSON objects, then embedded as marker points on GetSafe's own map.

Back-end Implementation

- Database is set up and API's are running

Only the Login & Sign up have a complete back-end through Firebase authentication

- Implementing them in the application is underway

Local database stores **Username, password, emergency contacts, emergency procedures**, in addition to the **map coordinates** extracted from HarassMap

- Currently the application utilizes shared preferences to store data about the user such as emergency contacts and preferred emergency procedures.

Mile Stone 4

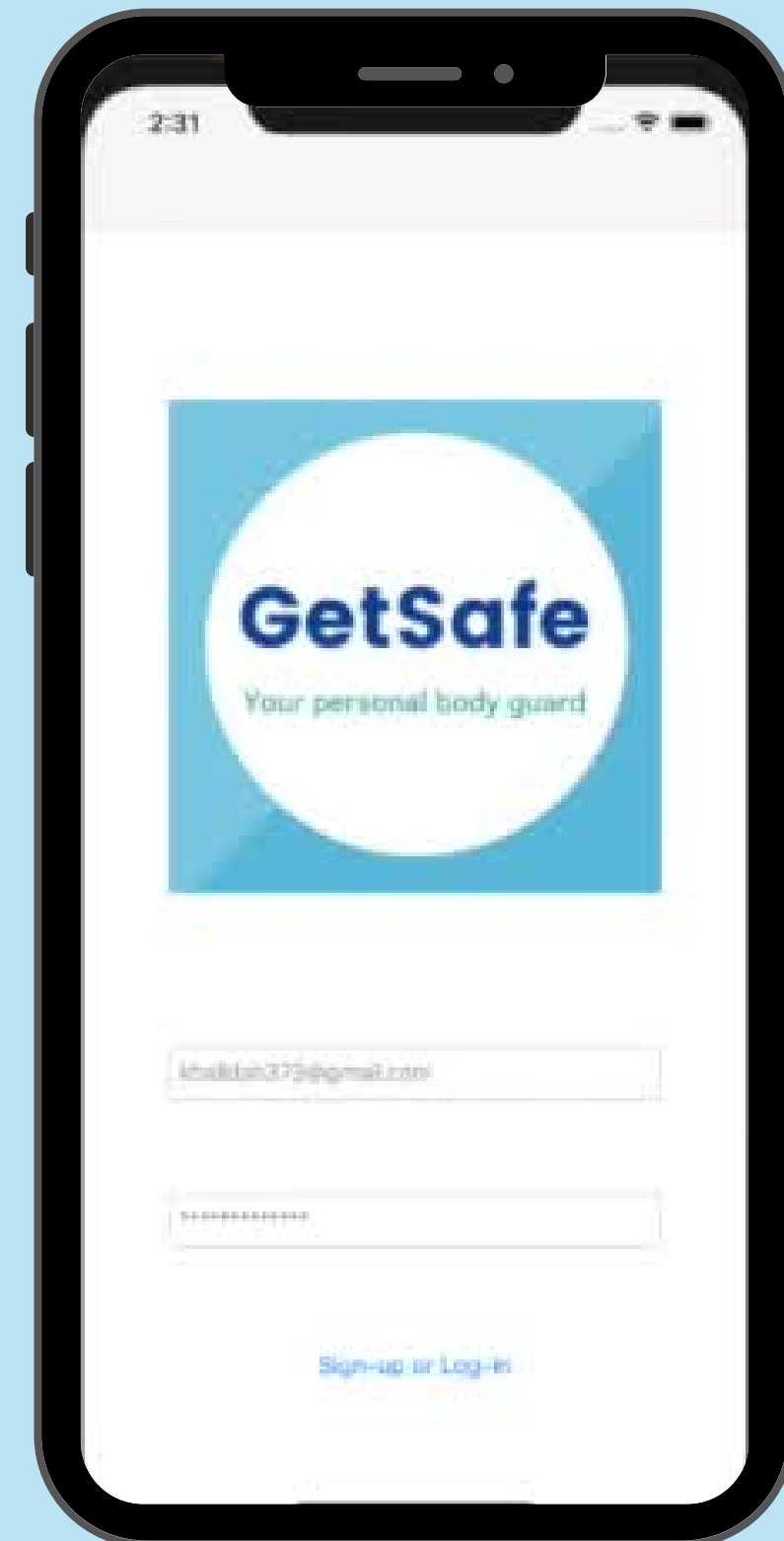
Complete Client + Server sides of
Android App

Functional UI for iOS App

Demo of UI Prototype – iOS App

- Complete UI design + Basic functionalities:
 - Usable for all screen sizes, optimum for iPhone 11 Pro.
 - Navigation controller
 - Emergency alarm on button release and alert messages
 - HarassMap view functional.

Play Video
11 Pro Max size



Demo of complete Android App

- On login, user data is retrieved from the server and loaded into the UI

This initializes local data on the app such as emergency contacts and preferred procedures

- On exit of each page, user data is sent to the databse to update it incase of changes made by the user.

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Thank You!

Questions?

