Safe & Sound

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BSHC4 IOT

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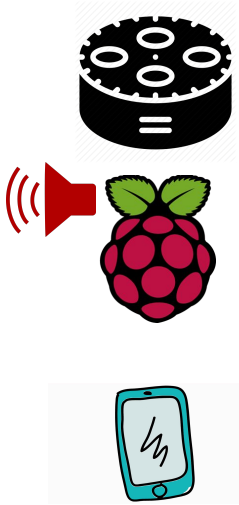
Software Project

Wednesday May 23rd 2018

What is Safe & Sound?



My Initial Idea

What I wanted to achieve:

- An iOS app
- Alexa sound a warning when there was a disturbance
- The app to show if the system was active or not on the home page
- The camera to only be accessible in an emergency
- An alert notification to be sent to the relatives phones

What I achieved:

- An android application
- The raspberry pi sounded and alert when there is a disturbance
- The camera is accessible for a live feed when the button is clicked in the app
- A text message is sent to the relatives phones

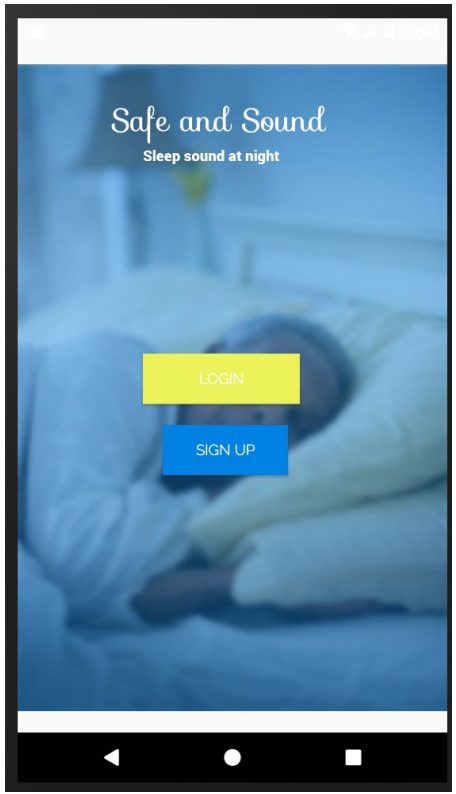
Amazon AWS

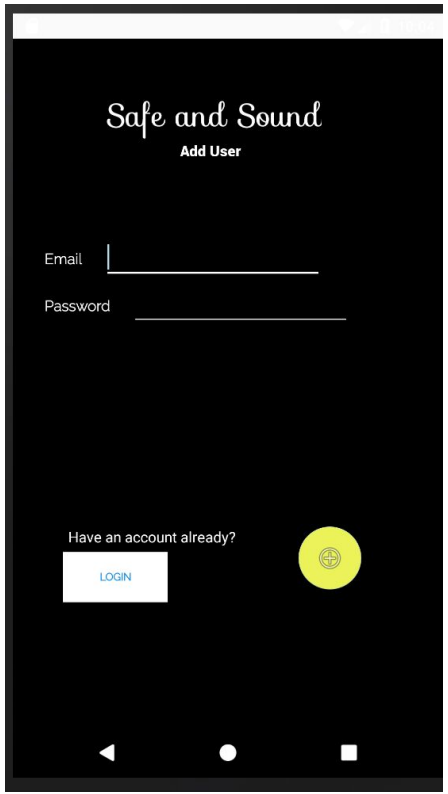
Google Firebase

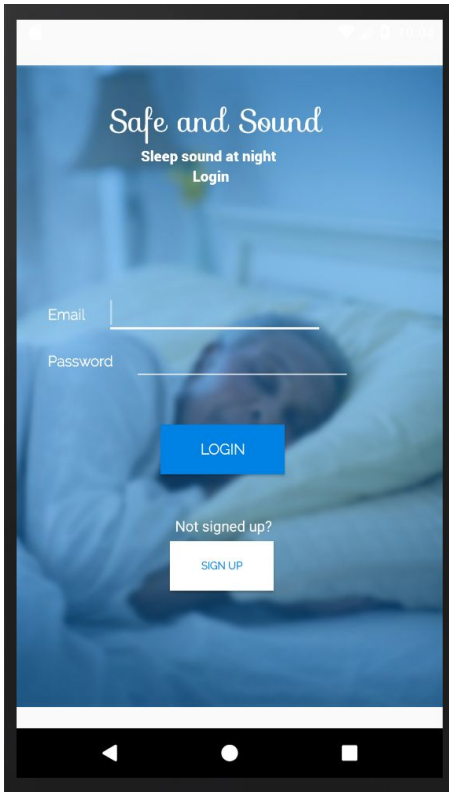
Google Cloud Platform

Firebase

GUI


Safe and Sound
Sleep sound at night
LOGIN
SIGN UP

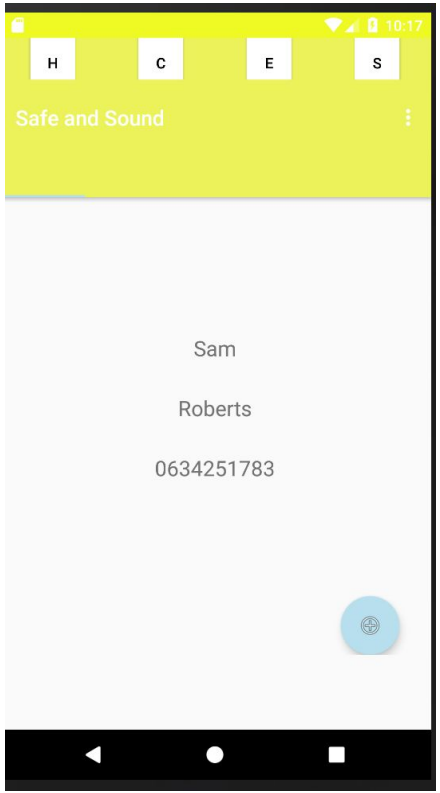

Safe and Sound
Add User
Email
Password
Have an account already?
LOGIN

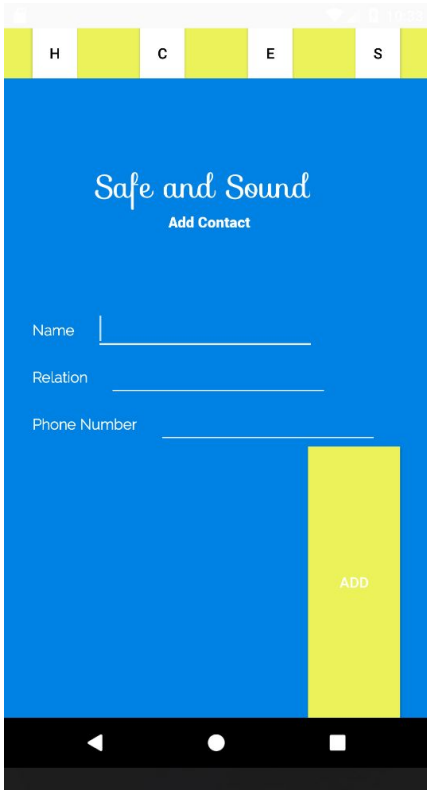

Safe and Sound
Sleep sound at night
Login
Email
Password
LOGIN
Not signed up?
SIGN UP

GUI

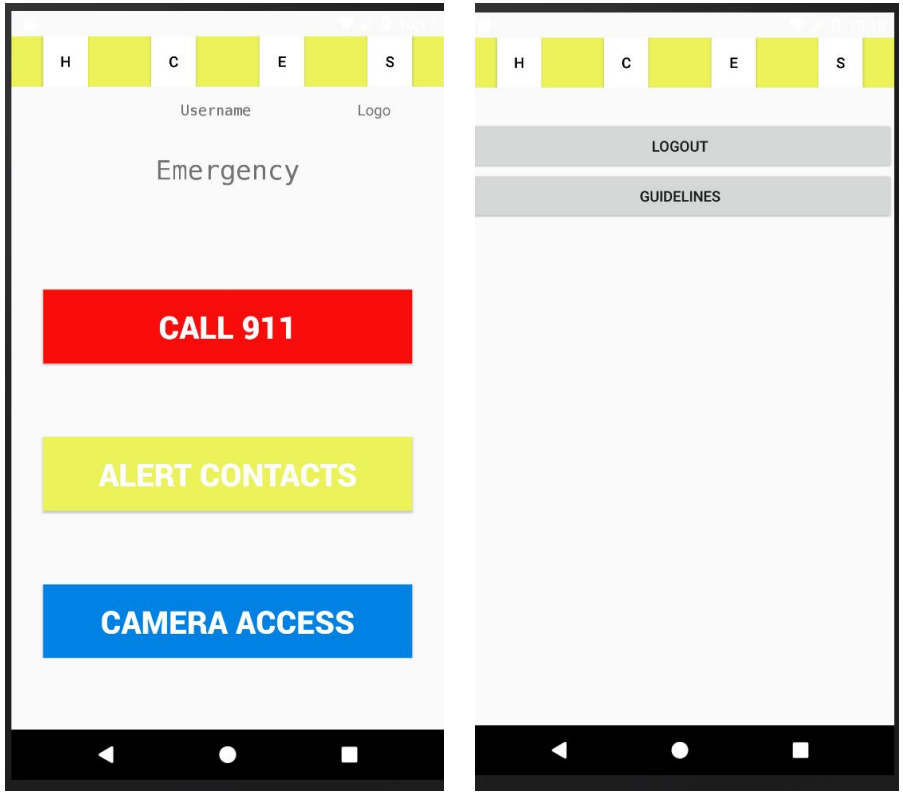
H C E S
Welcome harry@gmail.com
S&S
Safe & Sound

H C E S
Username
Logo
Status of system
Active


10:17
H C E S
Safe and Sound
Sam
Roberts
0634251783


H C E S
Safe and Sound
Add Contact
Name
Relation
Phone Number
ADD

GUI


H
C
E
S
Username
Logo
Emergency
CALL 911
ALERT CONTACTS
CAMERA ACCESS
H
C
E
S
LOGOUT
GUIDELINES

What I would add to Version 2 of my project

- Emergency calls straight from alexa
- Machine Learning
- Data analytics
- iOS app
- Everything that I had initially wanted to put in
- More PIR sensors for every direction

Demonstration

Questions