

Siren Emergency Response App

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Introduction

Value Proposition

Provides control, peace of mind, personal security and empowerment to the user during any disaster or national emergency.

Mission Statement

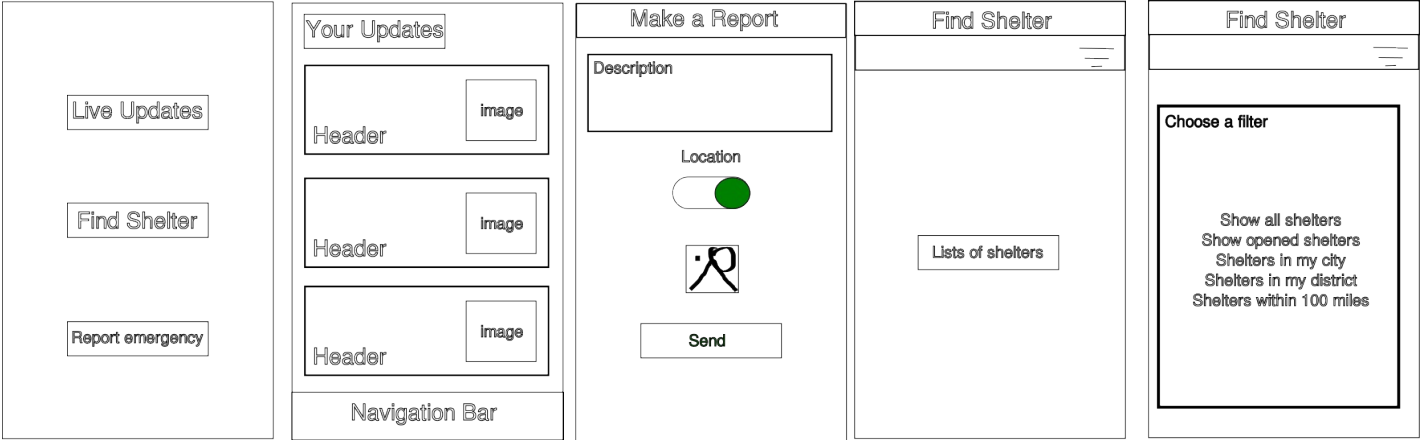
Siren, being there to support Belizeans in times of need and pandemonium by making natural disaster preparation easier.

Problem/ Solution Overview

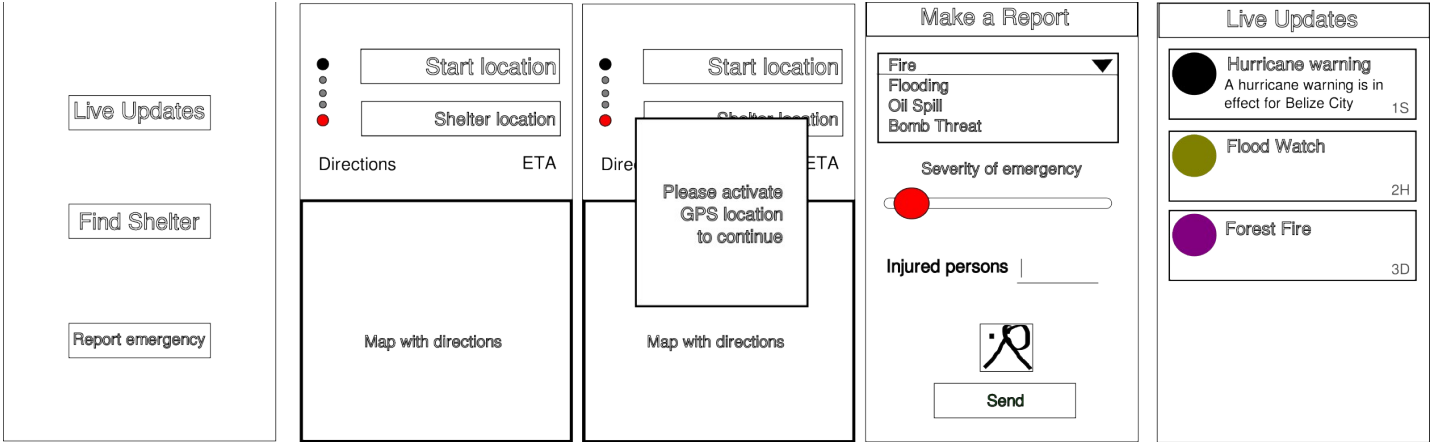
There is currently no way to send real time alerts and information to people in imminent danger during a widespread event which is vital to the safety and protection of lives and property. Siren proposes to close the gap by implementing real time emergency alerts to its users in close proximity to a danger area, finding the nearest emergency shelters, and sharing interactive preparedness tutorials which help to be ready for any eventuality.

Sketches

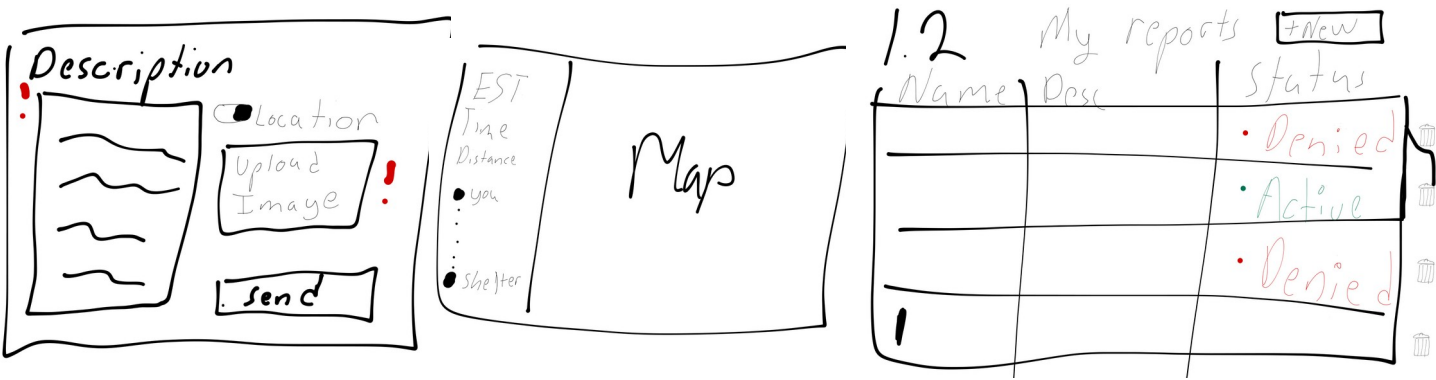
Overview



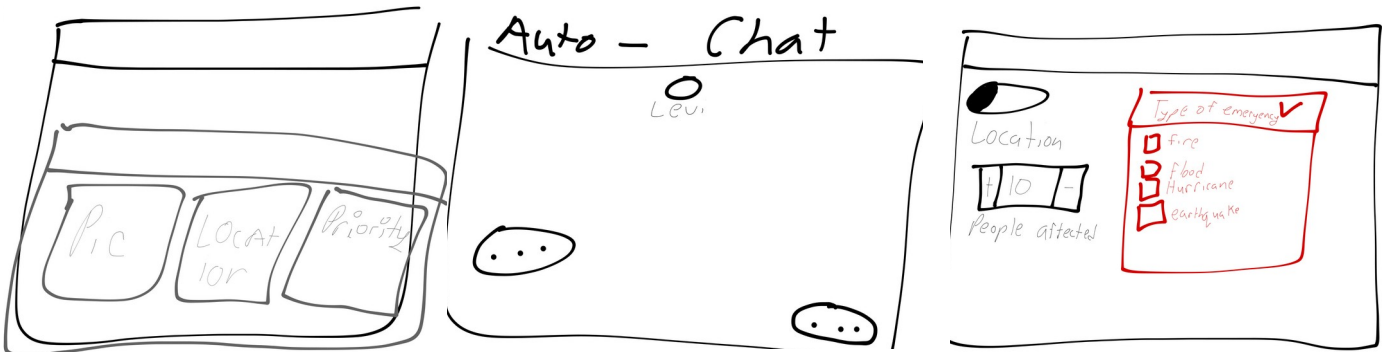
[Figure 1] Design 1



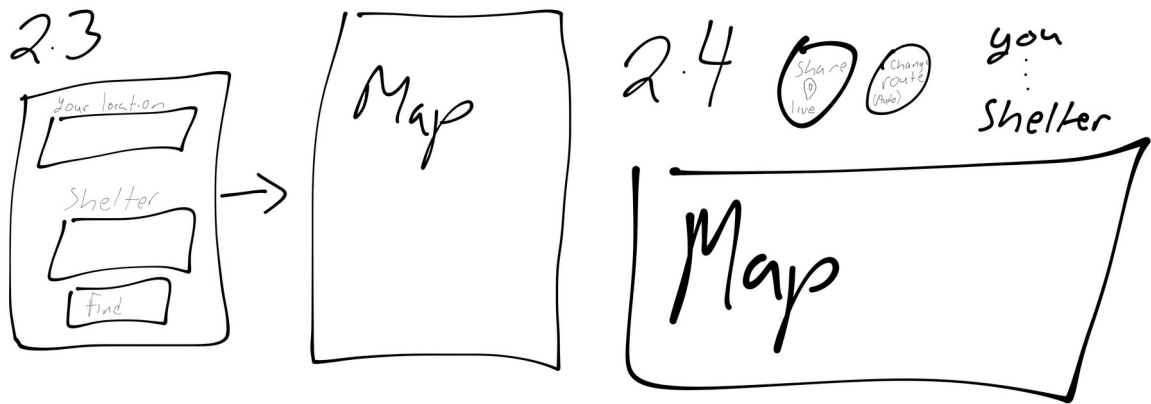
[Figure 2] Design 2



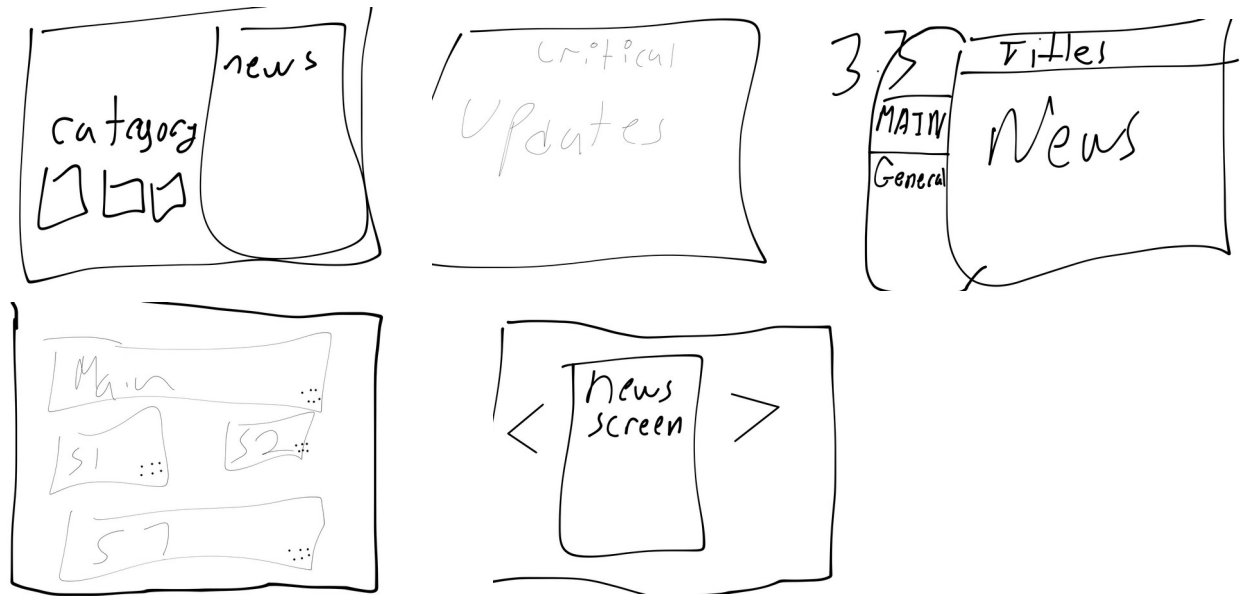
[Figure 3] Design 3



[Figure 4] Design 4



[Figure 5] Design 5



[Figure 6 – Design 6]

Top Picks

Live Updates

Find Shelter

Report emergency

Start location

Shelter location

Directions

ETA

Map with directions

Start location

Shelter location

Directions

ETA

Map with directions

Please activate GPS location to continue

Make a Report

Fire

Flooding

Oil Spill

Bomb Threat

Severity of emergency

Injured persons

Send

Live Updates

Hurricane warning

A hurricane warning is in effect for Belize City

1S

Flood Watch

2H

Forest Fire

3D

Live Updates

Find Shelter

Report emergency

Make a Report

Description

Location

Send

All Updates

District Updates

Community Updates

Live Updates

Hurricane warning

A hurricane warning is in effect for Belize City

1S

Flood Watch

2H

Forest Fire

3D

Start location

Shelter location

Directions

ETA

Map with directions

Start location

Shelter location

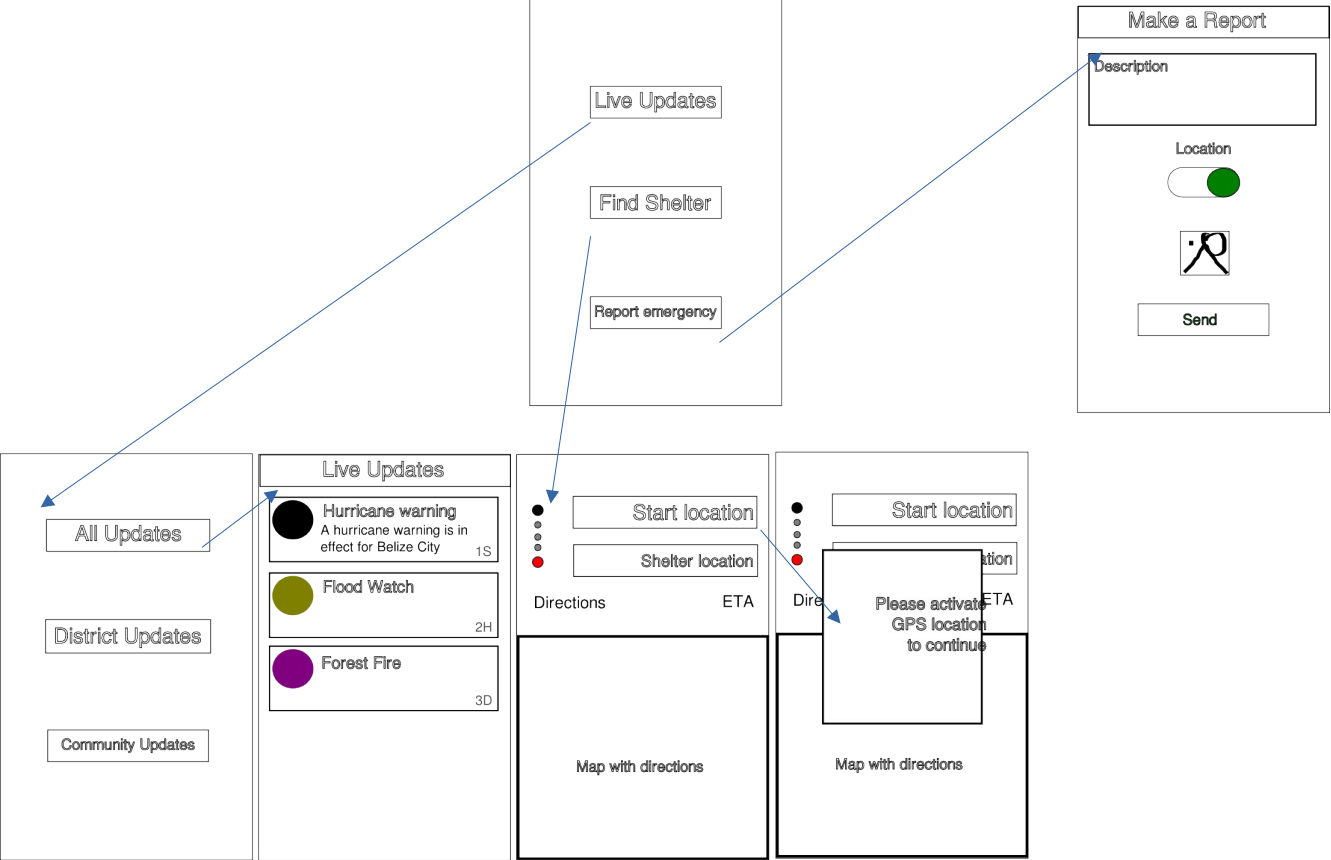
Directions

ETA

Map with directions

Please activate GPS location to continue

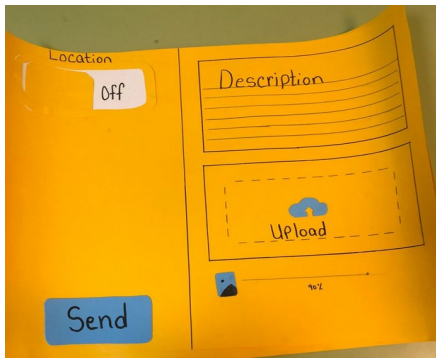
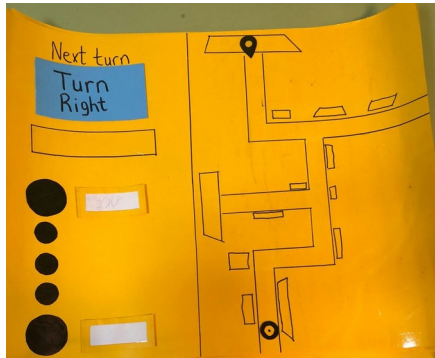
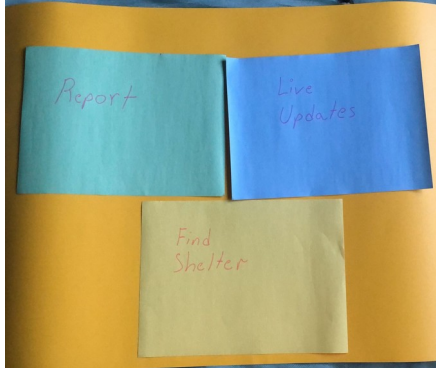
Selected Interface Design



PROS	CONS
Simplistic design	Maybe too simple
Recognizable icons	Could use more widgets
Feels more natural	

Descriptions

Our prototype conveys a mobile application since most users have one most of the time and would be well suited for this scenario. This prototype enables the user to manouver easily across the different screens of our app with easy navigation. It also takes advantage of GPS sensors in mobile devices to detect the users location. A fall back would be for the user to input their location as necessary.



Methods

Participants:

The app being developed is in partnership with NEMO. For this Phase we created the low- fi prototype so as to get human participants to give us feedback on certain aspects of our design before moving onto the medium-fidelity prototype. So we got 3 volunteers who helped us with this.

Environment:

This is the first time that the students of UB ask for in person testing since the corona-virus pandemic. So we set up ourselves in what was called the PC lab where multiple group set up to let students who where passing by into the lab where they can chose which app to help with.

Team Member Roles

Azriel Cuellar - facilitator

Amir Gonzalez- Observer

Victor Tillett- Computer

Results

- All participants expressed interest in the idea of the application.
- All participants completed the different tasks but with some level of difficulty.
- All participants were able to navigate between the pages with little to no difficulty.
- Participant #3 grasped the concept of the find shelter widget.
- Participant #2 liked that the updates could be filtered by regions.
- Participant #1 would have liked that more information be allowed to upload with the report.

Discussions

Discussion whilst there were many going around the room we had a lot of different ones. The most prominent discussions were the one in which the participants told us what we could do to improve the overall design of the prototype. We had discussions about the overall about many different aspects of the design. Whilst we noticed that the participants might get confused at the certain aspects of the low-fi prototype this doesn't discourage them from talking to us and ask us different questions about what the actual app might be, this goes even further as 1 voiced her immediate concern about the way we guide other people through the app in the future and what tool tips it will have to help people through the app. We had information from people asking us why there needs to be a lot of data to be typed. We also had suggestions for different design changes like changes to the design so it make it more understandable for other people who doesn't understand technology that well and things like that. We also had participants who grasped the concept quite clearly from the get go and clearly understood what certain elements did. But we also has some participants who were a bit confused about where they got confused about where the map would take them and other stuff like that. Thats why we take in to consideration after the fact when we are designing the interface for this project the fact that we need to be very careful of how complex we make this app because if we make it too complex and not easy enough to use we might run the risk of pushing away potential users who don't have that much experience with apps like ours.