
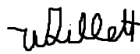



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CMPS3141 - SPP7

SIGNATURE BLOCK				
Statement	I did my share of the work, and I have a general understanding of the contents of the assignment.			
Team Member	Contribution	% of Total	Signature	Date
<i>Hipolito Bautista</i>	Built the Prototype	25%		12-12-22
<i>Victor Tillett</i>	Report(Prototype Implementation)	25%		12-12-22
<i>Aziel Cuellar</i>	Report(Header, Problem & Solution Overview, Design Evolution, Summary)	25%		12-12-22
<i>Amir Gonzalez</i>	Presentation & Slides	25%	<i>Amir Gonzalez</i>	10-12-22

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INTRODUCTION

Project Name: Signal

Team Members: Azriel Cuellar
Victor Tillet
Hipolito Bautista
Amir Gonzalez

Value Proposition: “Siren empowers Belizeans to take control of any emergency situation, by providing easy to use tools 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 STATEMENT/SOLUTION

There is currently no way to send real-time information during a widespread event vital to the safety and protection of property and lives. The solution is to provide an easy-to-use application that is widely accessible on mobile devices. Features include alerts, news, seeking shelters, and preparedness checklists, just to name a few.

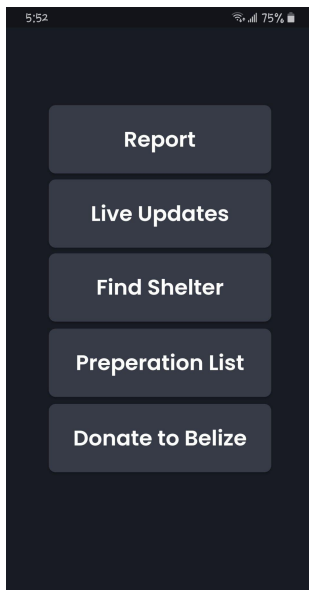
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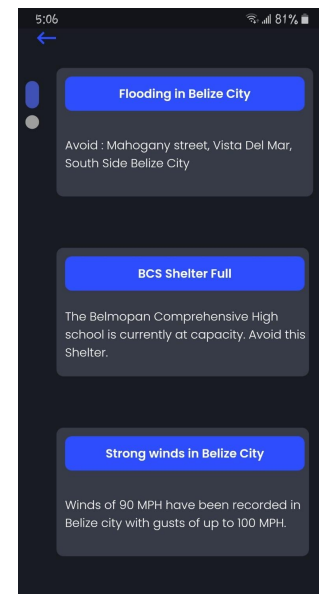
TASK & FINAL INTERFACE SCENARIO

TASK	COMPLEXITY	DESCRIPTION
Accessing Information of Current Events	<i>Simple</i>	<p>This feature was added to provide users with a way to gain access to current events currently ongoing within the country. They are given the option to choose between three different types of filters</p> <ul style="list-style-type: none">I. LocalII. DistrictIII. Country

Storyboard



Homescreen



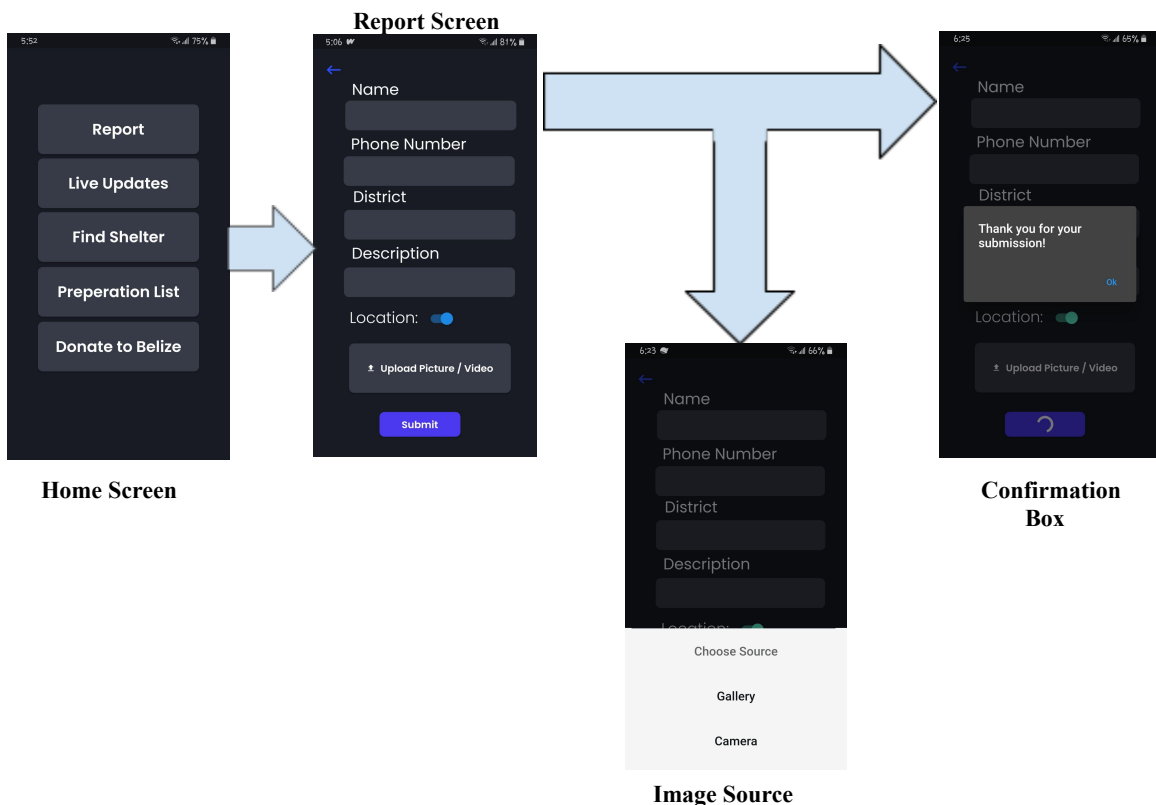
Live Updates Screen

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TASK	COMPLEXITY	DESCRIPTION
Report an Emergency	<i>Intermediate</i>	This feature allows users to report whenever a specific emergency is in the area. The users are supposed to input the following information to assist: Name, Phone Number, District, Description, and Location. Image (Optional)

Storyboard

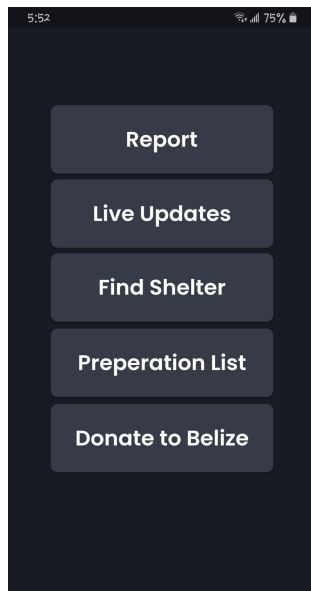


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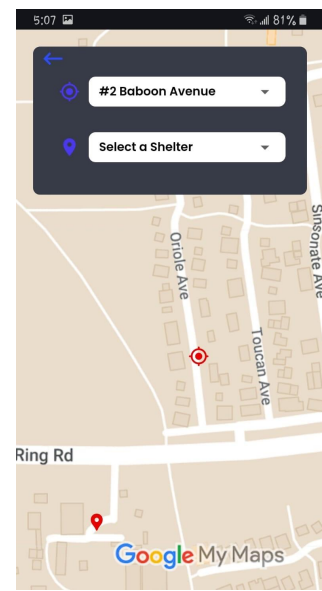
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TASK	COMPLEXITY	DESCRIPTION
Locating Evacuation Routes	<i>Complex</i>	The primary purpose of this feature is to properly allow users to gain access to evacuation routes for their area. The users are provided with a general route.

Storyboard



Home Screen



Find Shelter Tab

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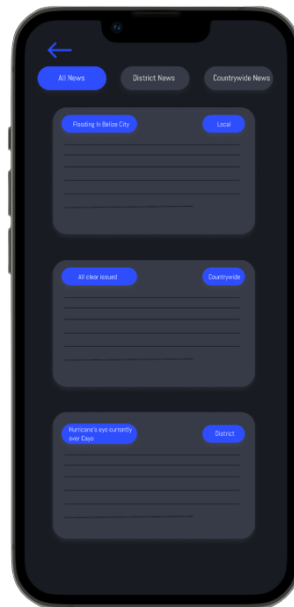
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DESIGN IMPLEMENTATION

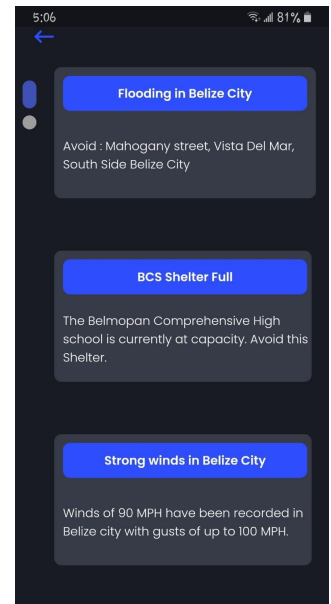
Accessing Information



Low-fi Prototype



Medium-Fi Prototype



Hi-Fi Prototype

Change(s):

- Grid & Hamburger menu was implemented.
- A back button was added.

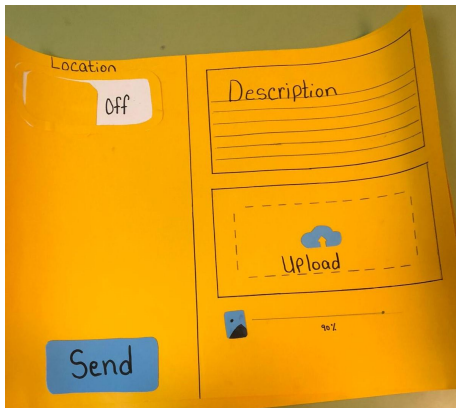
Reasons:

- Added capability of displaying more information in a streamlined manner that had external consistency with other news applications.
- Back Button was added for navigation.

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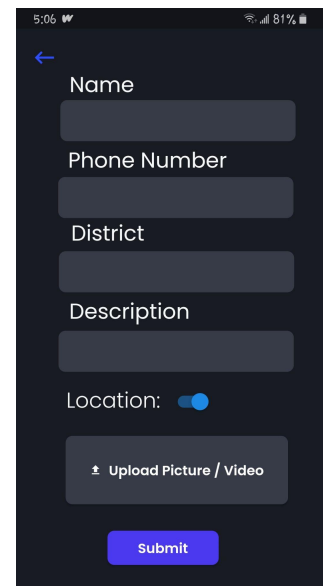
Reporting an Emergency



Low-fi Prototype



Medium-Fi Prototype



Hi-Fi Prototype

Change(s):

- The screen layout was changed to a hamburger menu.
- A back button was added.

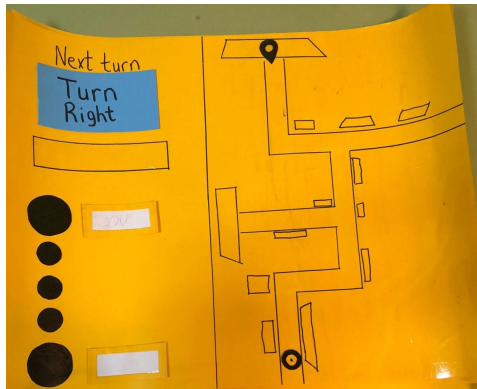
Reasons:

- During testing, users were confused with the layout. The decision was made to make it similar to other applications.
- Back Button was added for navigation.

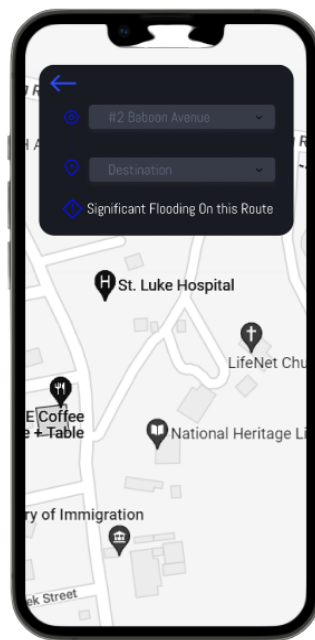
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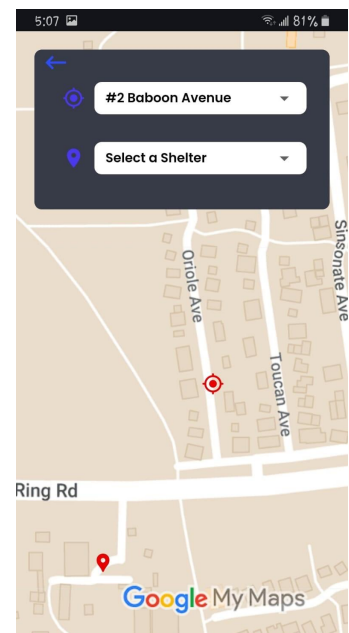
Locating Evacuation Routes



Low-fi Prototype



Medium-Fi Prototype



Hi-Fi Prototype

Change(s):

- Gestalt's Principle of Grouping, known as Area, was applied to simplify design

Reasons:

- During testing, users had trouble understanding the directions on the left. The decision was made to apply a layout similar to Google Maps.

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PROTOTYPE IMPLEMENTATION

TOOLS USED FOR THIS PART OF PROTOTYPING

Mobile Tools:

-Flutter Flow

HOW THE TOOL HELP:

We made use of Flutterflow to aid in the creation of the mobile app prototype. This online app builder enables users to quickly create native cross-platform applications, enabling us to create apps for iOS, the web, and Android. We chose flutter flow because it makes creating applications quick and simple. Additionally, this development kit reminded us a lot of Figma, so we used our knowledge of Figma to create this prototype. We styled our app using the dark mode that is typically employed.

HOW THE TOOL DID NOT HELP:

Even though this mobile app development kit has a lot of similarities to Figma, it was useless when we tried to create this prototype. For instance, operating FlutterFlow would require much prior dart programming experience. Although the dragging and dropping method was straightforward, the process of setting up various screens, the modals list, and other tasks was less enjoyable because we had to understand where the CSS elements were located in the project. In order to test the design we had in mind, other procedures such as centering the button and making sure our app from the medium-fi was not lost.

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WIZARD OF OZ:

- Live Update: We gave the illusion of live updates that happened during Hurricane Lisa. The objective was to simulate what the live updates would be like on the app.
- Find Shelter- This is a suggestion on what is the closest shelter located in your current area, and then the app would guide you to the area.
- Preparation list- This is the list that a person may put for themselves so they can get ready to weather out the hurricane if they are staying at their own home. This is a to-do list so that users will get ready and can either add a new task or delete specific tasks.
- Donation to Belize - This is a Donation Button that is directly linked to different donation centers around Belize that the user can donate to help with the relief efforts.

HARD-CODED DATA

- Live Updates: We hard-coded some news segment that was going on during Hurricane Lisa to test in the prototype.
- Find Shelter: We hardcoded the user location and the location of the nearest shelter. This is to give a visual representation of what it may look like.
- Preparation List: We hardcoded some List data that a user might have during the hurricane preparation phase and implemented that in the program.
- Donation to Belize: We also coded the data in the Donation to Belize button to represent how we might use it to help people.

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WHAT'S MISSING FROM THIS PROJECT

The things that need to be added to the project are a lot of different ideas different people have had during the design process of this project. We could not implement a feature showing the user a live look at the weather. Thus we did not fully implement a system where live updates will also show you a live feed of the weather.

One member of the Group also had other Hard-coded ideas they wanted to implement. A web-based Admin terminal so people like the Police, Medics, Firefighters, and Nemo would see live updates of people who need help so the relief process can begin even sooner than normal. We also want to implement the google maps feature to guide people to the nearest shelters.

In addition, we would also like to see our mobile application with more functional features rather than hardcoded ones. We want to continue working on this project and would like our app to be better overall without the hard coding or Wizard of Oz.

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SUMMARY

Everyone involved in the sixteen-week Siren project creation process learned a lot during the process. Even though the spiral model method was not made public, it gave us information technology students an understanding of what it is like to create a mobile application for users. Conflict arose in the group during the creation of our paper prototype during the paper prototype phase, which ultimately cost us a poor representation of what was to be developed further. The quick turnaround time during application development was made possible by the FlutterFlow development tool.