

Hurricane React

Process Book

By: Shareen Esmail



Contents

- 3 Project Summary
- 4-5 Research
 - 4 ■ Disaster Research
 - 5 ■ Inspiration
- 6 User Experience
 - 7 ■ SWOT
- 8-9 User Testing
 - 8 ■ Sitemaps/Wireframes
 - 9 ■ Usability testing
- 10 User Interface
 - 10 ■ Iterations
- 11-14 Final Prototype

Summary

I have a friend at work, who has not seen their dad for several months, due to hurricane Fiona. When assigned the disaster support app I knew that this was the disaster I would be choosing because of how dear this coworker is to me and how painful this experience seems to be to him. I promptly began picking some of my favorite apps that I use daily to base the functionality of my app's design. Something I realized that my peers and I do a lot is search tutorials online for different classes. Much of the population uses apps such as YouTube to view tutorials on how to complete tasks or find "tips on tricks", myself included.

This led to the creation of "Hurricane React". Which was intended to help users through the stressful occurrence of a hurricane by showing and explaining different ways to survive all possible situations. With four Primary functions like the how-to steps, tracking of the hurricane and of nearby shelter locations, and a "Contact Emergency Services" page. While showing the most common cases on the homepage and a search bar for special instances. The Hurricane Location feature and the Shelter Location feature are self explanatory, locating the hurricane and / or different shelter locations. The Emergency Services Feature is a SOS system to contact a hurricane response team.

There is still more I would change if I had more time to work on it, but overall, I am happy with the results of this app.

Disaster Research



While researching about hurricanes in Canada, I found that Canada has been hit by as many as 36 category 1 or higher hurricane since 1950 or as many as 255 tropical systems impact Canada within 60nm of the coastline. Mainly on the west side of Canada

Sources



- <https://www.theatlantic.com/photo/2022/09/photos-hurricane-fiona-canada/671557/#img13>
- <https://bit.ly/3wCIF60>
- <https://www.cnn.com/2022/09/24/weather/gallery/hurricane-fiona-canada/index.html>
- <https://www.nytimes.com/article/tropical-storm-fiona-hurricane.html>
- https://en.wikipedia.org/wiki/List_of_hurricanes_in_Canada#:~:text=September%2010%2D12%2C%202022%3A,winds%20of%20170%20km%2Fh

'It is surreal': Canada's Atlantic coast residents describe devastation as Fiona wipes away homes and knocks out power for thousands

By Jason Hanna, Susannah Cullinane and Christina Maxouris, CNN
Updated 10:08 PM EDT, Sat September 24, 2022

Facebook Twitter Email Print

Canada Mobilizes Military to Help Towns Slammed by Fiona

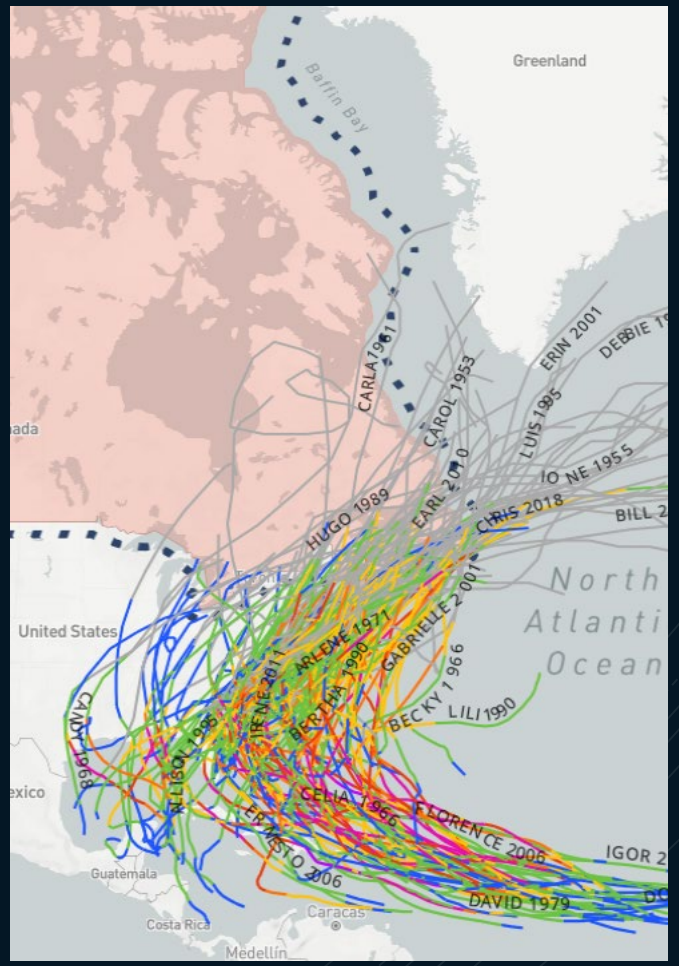
Forecasters described Fiona as “a historic storm” that struck eastern Canada on Saturday. The body of a 73-year-old woman who was swept out to sea was recovered on Sunday, the police said.

Give this article Share Bookmark Comment 20

Post-Tropical Cyclone Fiona Slams Parts of Eastern Canada

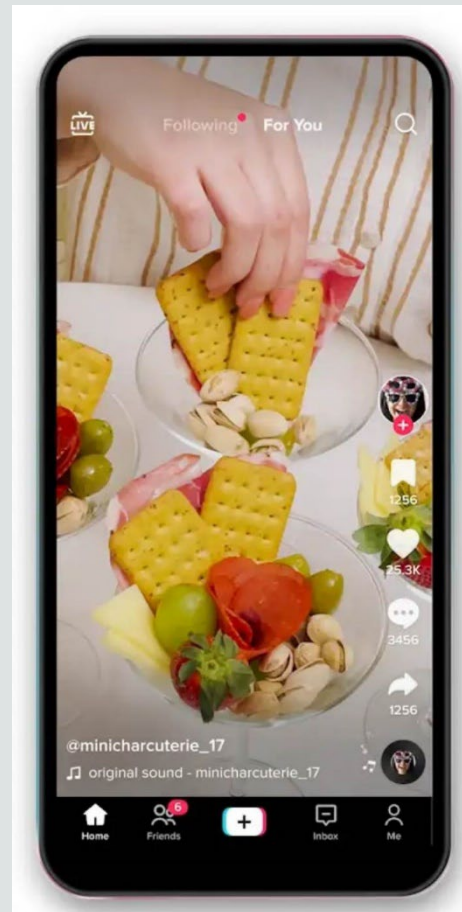
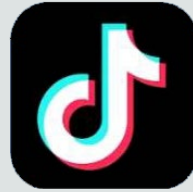
The storm, which was downgraded from a Category 3 hurricane, overwhelmed coastal towns in eastern Canada, where it flooded roadways, knocked out power and destroyed buildings. Chris Donovan for The New York Times

By The New York Times
Sept. 25, 2022

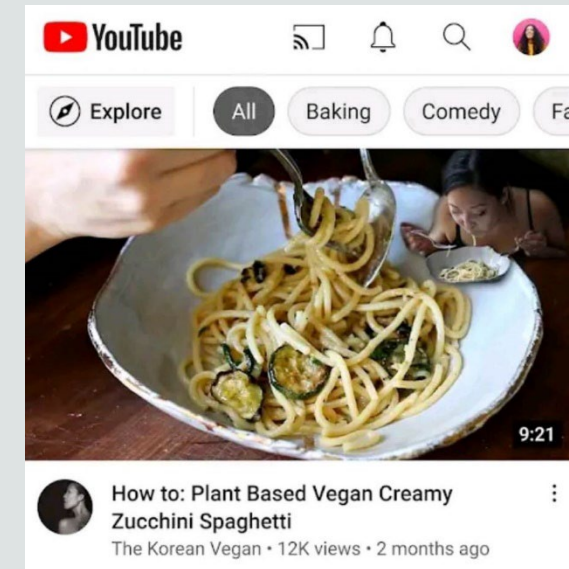


Inspiration

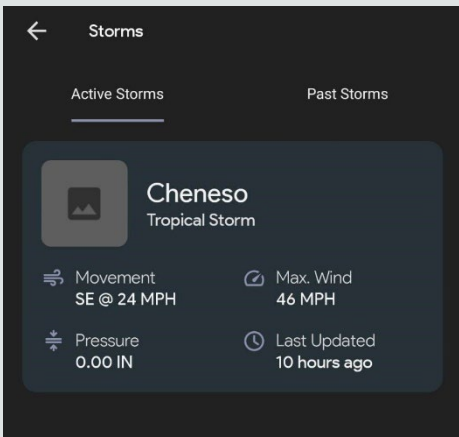
Different apps that I used to inspire Hurricane React



Project #1
Disaster Relief



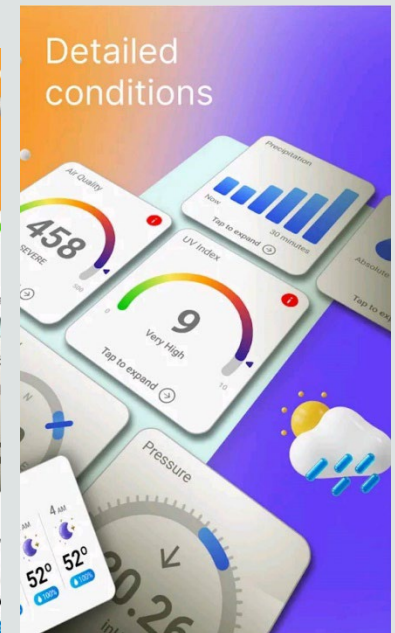
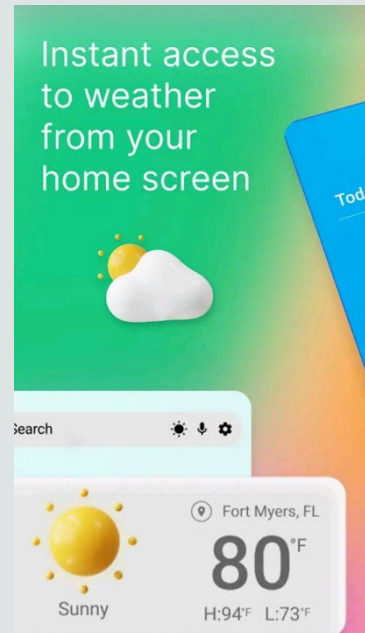
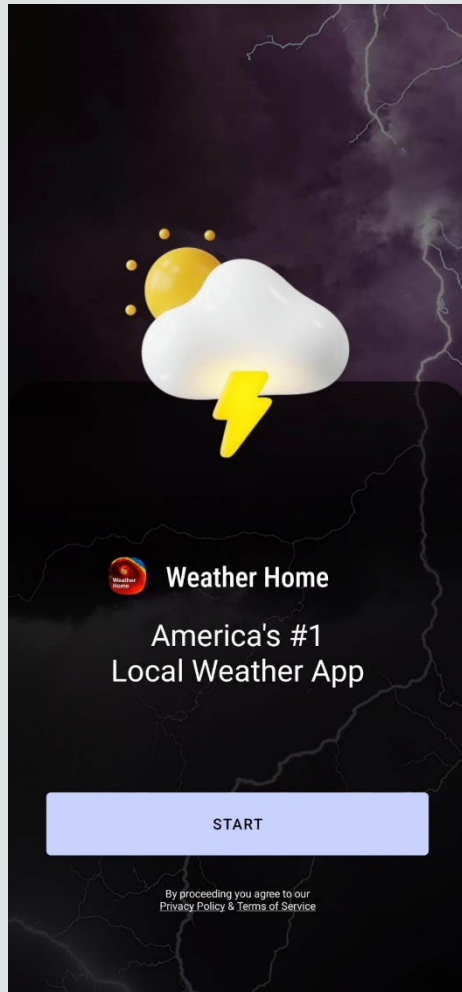
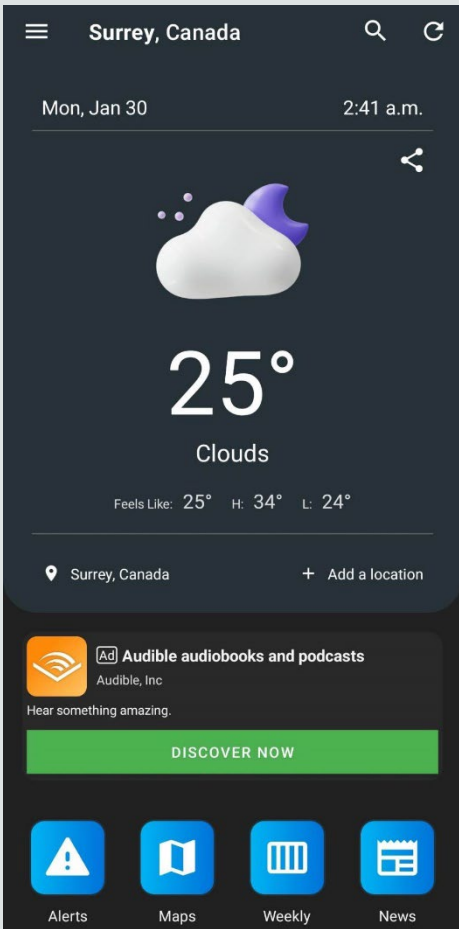
This was the main inspiration behind this app and the way one browses and watches video tutorials is strongly inspired by YouTube. In addition to the layout and style being similar to the final prototype as well.



Precedent Design Weather Home

#9 top free app in the weather category of the play store. This app finds local storms and easily keeps track of even your daily weather

- Sketchy in its design
- Not focused for extreme weather but for daily use
- No emergency options or information whatsoever



SWOT

Weather Home

Strength

- Very clearly walked the user through its use
- Interactive maps allow you to find the current weather in any location selected

Weakness

- Very sketchy in its design with a fake home screen and applications
- Isn't specific to any one place or type of people

Opportunities

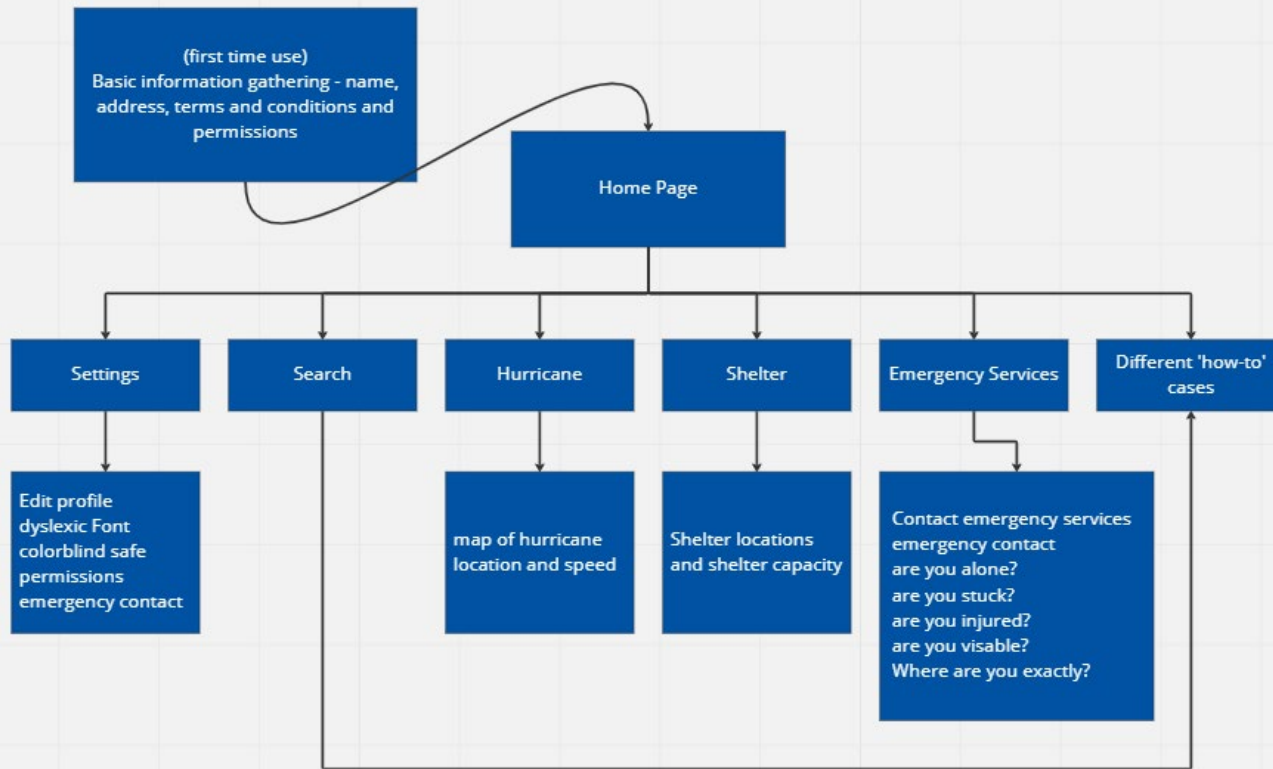
- Not many competitors
- Full potential to grow its emergency situation field
- Market to those who experience tropical storms or Hurricanes often

Threats

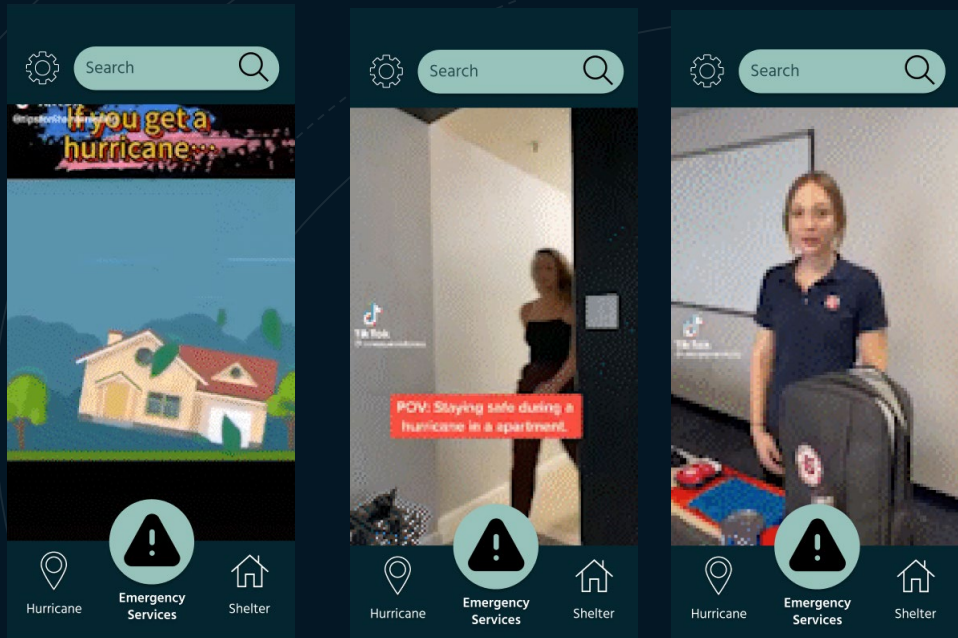
- Could give its users a false sense of security that they could handle the storm on their own
- Could cause strain on hurricane responders with false alerts or those who panic and activate the alert before they need it

Site Maps

The main site map has remained fairly the same throughout the development, just their presentation of that information has had many iterations.



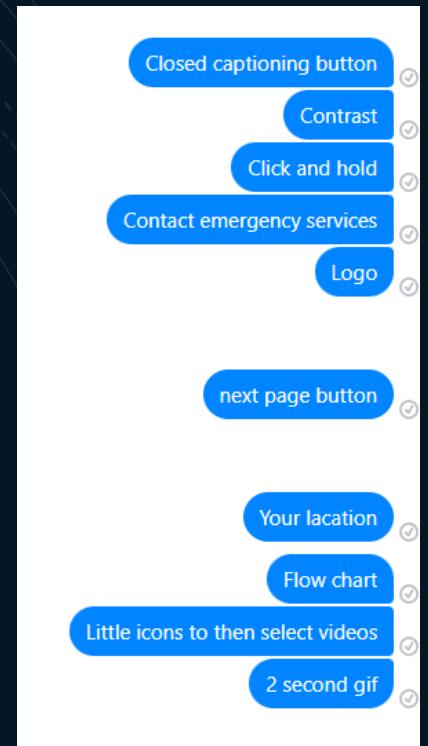
Usability testing

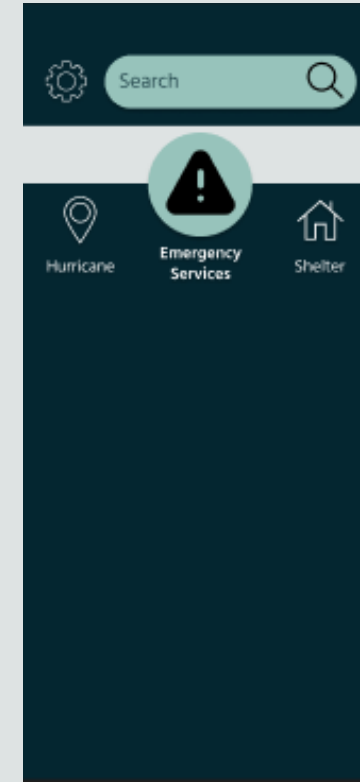
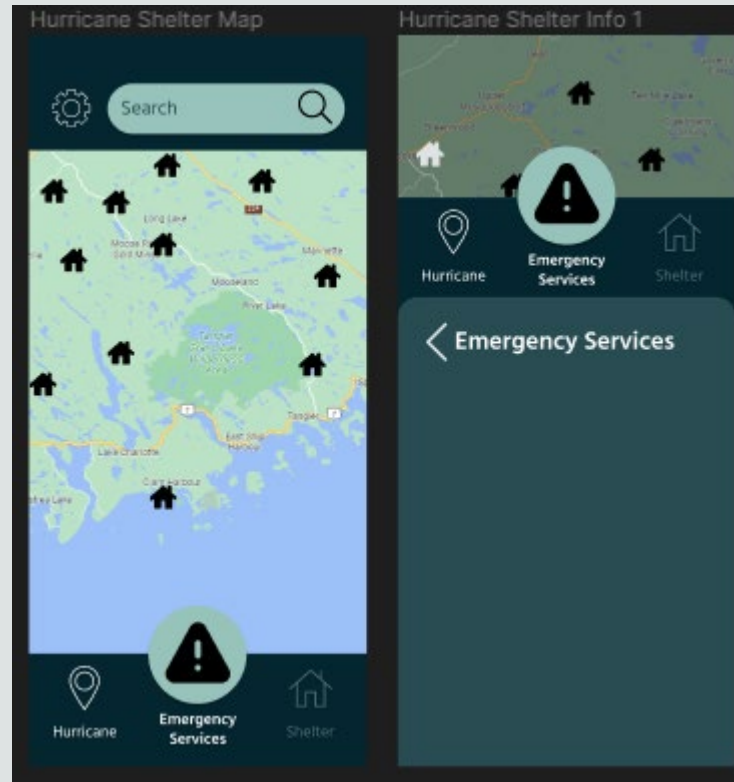
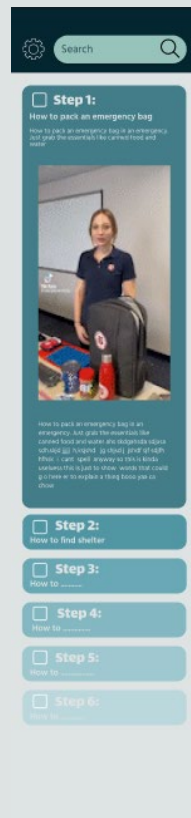
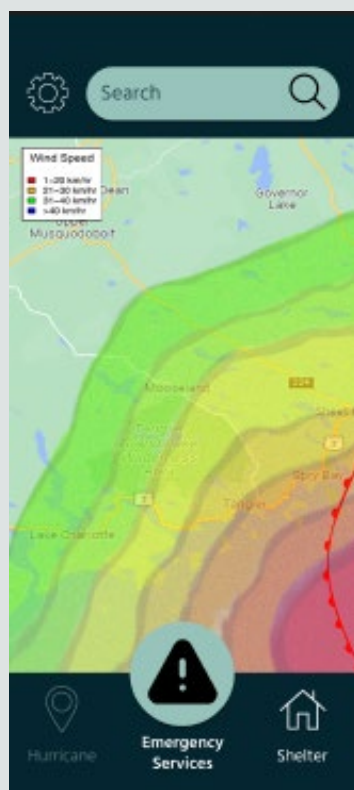


Solution to this problem was to shorten the video to a 2 second gif. And to go back to the YouTube layout where one could browse different scenarios instead of waiting for the video they needed to appear

Some text messages I had sent to myself during a presentation as well as during my user testing.

Original TikTok type layout. When User testing, the user was not prompted to swipe to the next video which caused some confusion. Was then told that while in an emergency situation, if there was only one tidbit of information the user needed, they would need to wait through the whole video which could be life or death in some cases.





Flats / Old Versions

Hurricane React

Final Prototype



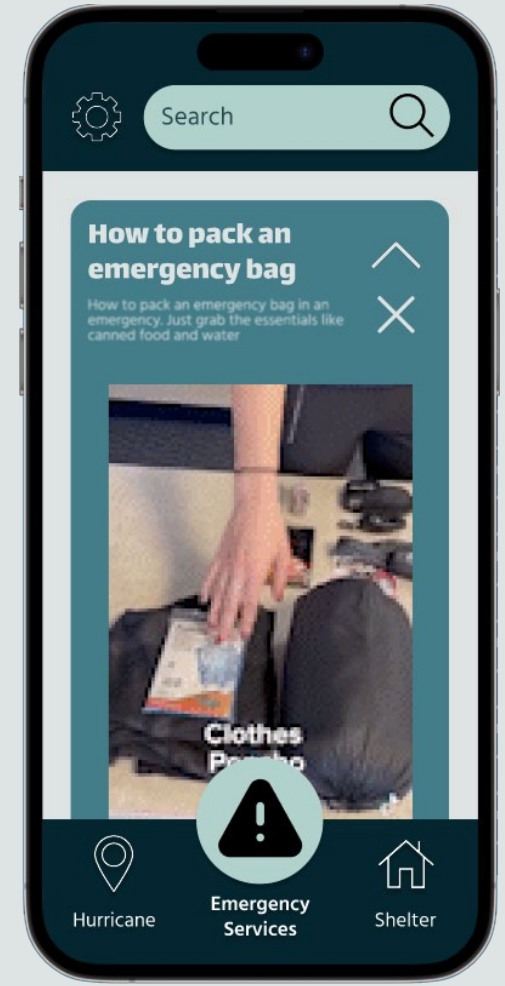
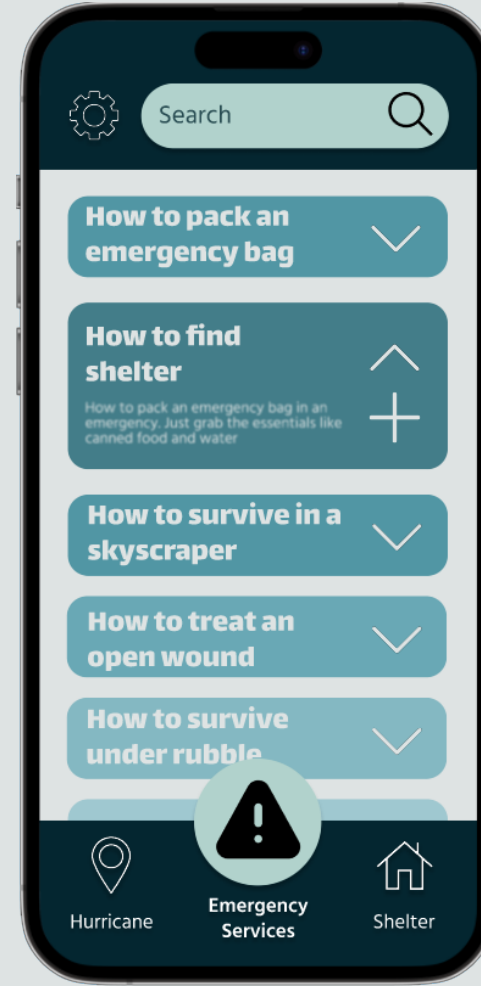
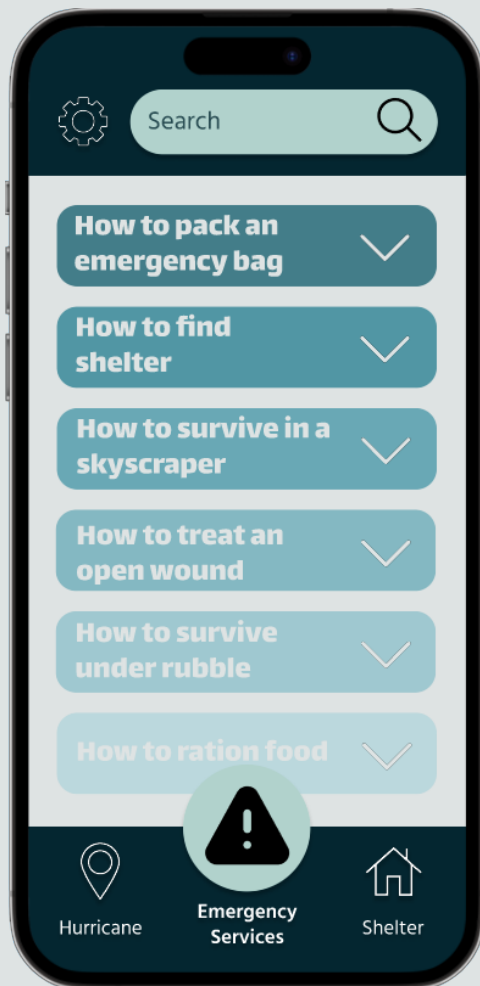
By: Shareen Esmail

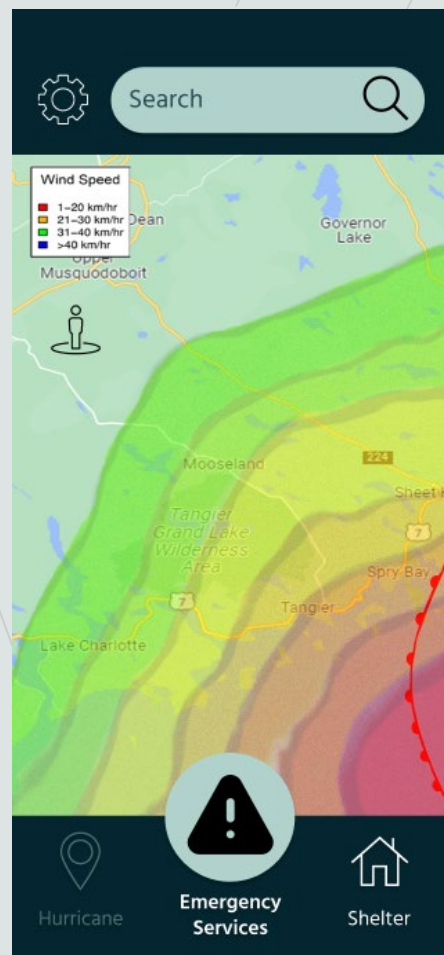
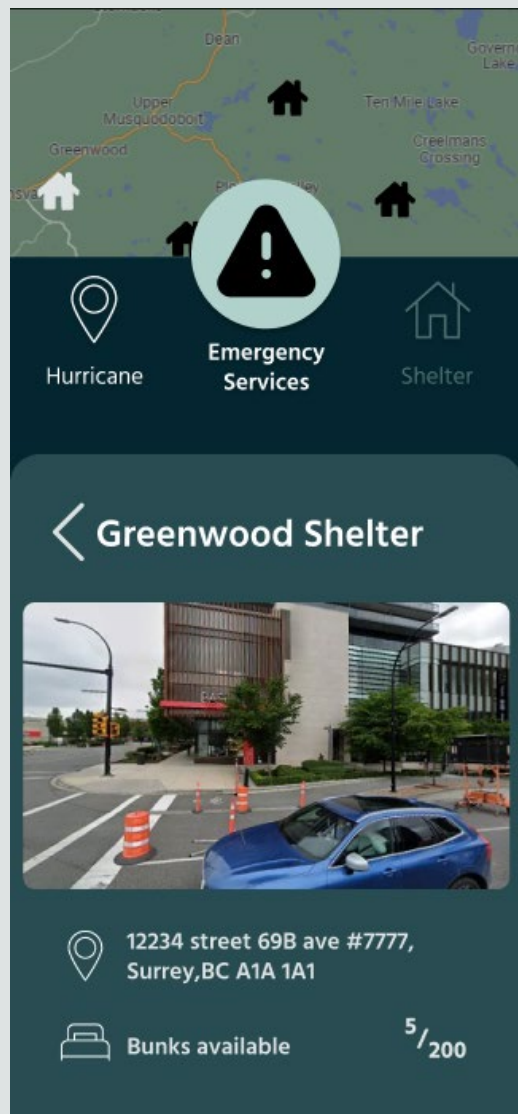


Government
of Canada

How To Survive a Hurricane

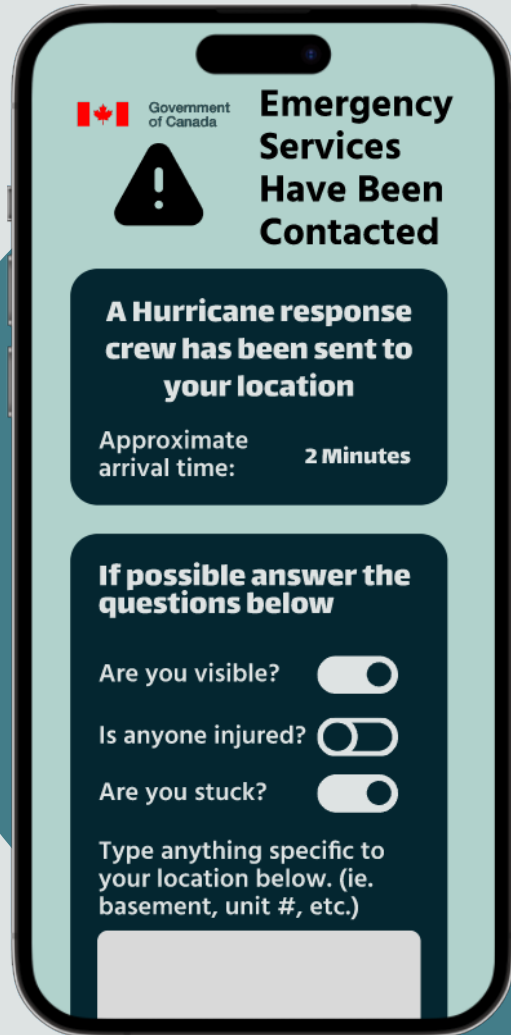
Step by step instructions on how to survive situations that may occur during a hurricane. With instructional videos and a search bar to look up specific situations this app gives users information on how to survive a hurricane.





Track the hurricane or find nearby shelter locations

Use the app's "Hurricane" function to track the hurricane location, speed and category. Or use the "Shelter" function to find nearby safe houses as well as how much availability each house has.



Emergency Services

Immediately contacts Emergency Services after pressing and holding the button for 5 consecutive seconds. In case the user is unable to respond, the app tracks your location and send an officer over to investigate. If the user can respond, a short questionnaire is below for the services to better help the user. With most important questions being a simple button switch for yes or no.