

AidConnect

Disaster Continuity Plan

Request for Proposal

Version 2.0

September 17, 2019

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Document History

Version	When	Who	What
1.0	09-14-2019	AidConnect	Initial Drafting
1.1	09-16-2019	AidConnect	Revised Draft
1.2	09-17-2019	AidConnect	Final Draft
2.0	09-17-2019	AidConnect	Revised Final Document

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1.0 Problem Description

AidConnect has a system that connects disaster victims with aid organizations' information. AidConnect's system can be unreliable in post-disaster situations when critical infrastructure is damaged. This cripples the ability of aid organizations to communicate with each other and provide food, clean water, social support, and medical assistance to disaster victims. It also cripples the ability of disaster victims to connect with the aid organizations. AidConnect wants to make our data more accessible to victims and deliver it reliably to their mobile devices.

2.0 Project Objectives

The AidConnect system must allow disaster victims seeking an aid centre to find their closest active aid centres and view the current occupancy of each aid centre. A solution system must satisfy the following objectives:

- Recommend the closest and least occupied aid centres based on the location of a victim seeking an aid centre
- Display the current occupancy of the closest centres to the victim seeking an aid centre
- Allow for updating the current occupancy of each aid centre in real-time
- Allow the system to function without cellular or other centralized infrastructure in the case that cell towers or wifi are unavailable to the user
- All functions of the system can be accessed on a variety of mobile devices
- Usability considers users across a range of computer literacy

Successful implementation of these objectives requires a system with an interface for a victim seeking an aid centre and an interface for an administrator to update the current aid centre occupancy.

The interface for victims must display the locations of the closest aid centres and the occupancy of each aid centre. The victim should be able to view this data in a clear, concise, and accessible way. Victims should be able to access, but not edit, navigation data to each location. The victim should be able to receive data for each aid centre in real-time.

3.0 Current System(s)

The current system provides assistance with delivering and managing alerts during a disaster. It provides our administrators with information about alerts, safety, preparedness, and the locations of aid centres. Our system delivers and manages critical and potentially life-saving alerts to victims within the areas affected by the disaster.

4.0 Intended users and their interaction with the system

The main users will consist of three groups of people:

- Victims seeking an aid centre within the disaster zone.
- Disaster response communication centres.
- Administrators for disaster response organizations.

Disaster victims are the main users for the system, using their personal mobile devices to receive updates and interact with the data. The solution should consider victims with accessibility issues and disabilities, such as victims with hearing or vision impairment. The system should focus on helping disaster victims find relevant information about their disaster and help finding aid centres.

The disaster response communication centres actively manage data relevant to the aid centres. The solution should display all current aid centre data to the disaster response communication centres and allow them to update the data in minimal time.

Administrators interact with the system in two distinct ways. First, administrators will use the system to find relevant information about the disaster and aid centres. Second, administrators will contribute to the system by providing current information from the disaster zone to the disaster response communication centres.

5.0 Known interactions with other systems within or outside of the client organization

The system will allow aid organizations to share information about their resources and procedures. The information will be updated in real-time to ensure that there is constant and consistent communication between the aid organizations. This information will include the current occupancy of each aid centre, max occupancy of each aid centre, as well as available medical resources, food, and water at each aid centre. The system will provide victims with routes to the nearest and least occupied aid centre.

The application currently uses information gathered from external sources which is then categorized and distributed to victims. The system should support communication between each aid organization. Information and resources available to each aid organization is communicated in real time.

6.0 Known constraints to development

The signal communication must be reliable. Common network connections cannot be relied on due to the vulnerability of critical infrastructure. Creating a less vulnerable alternative is essential.

The system will be reliant on user-owned mobile devices, which are each composed of different hardware and software. These devices will have differences in battery life, signal reliability, data storage limits, and operating systems. The system must be compatible with as many mobile devices as possible and deliver a consistent experience across these devices.

The system must be simple and easy for administrators to use. Updating current aid centre occupancy must take at most 5 seconds. The interface should be easy to update.

7.0 Project Schedule

Below is a brief overview of the schedule for this project.

Task ID	Task Name	Start Date	Due Date	Assigned to
1	Request for Proposal (RFP) and client website to be released.	09-11-2019	09-13-2019	Client
2	Designer to bid on the RFP.	09-13-2019	09-24-2019	Designer
3	Client meeting: Requirements Elicitation.	09-24-2019	--	Client and designer
4	Requirements Document (RD) and designer website to be released.	09-24-2019	09-30-2019	Designer
5	Client review and annotate RD and submits RD1.1.	10-01-2019	10-02-2019	Client
6	Client meeting: Client gives feedback, discusses RD1.1, and agree on project scope.	10-03-2019	--	Client and designer
7	Designer works on refining RD1.0 and modelling requirements to create RD2.0.	10-15-2019	10-29-2019	Designer
8	Client meeting: prototype demonstrations.	11-05-2019	--	Client and designer
9	Designer works on RSD3.0 and low fidelity UI models.	11-06-2019	11-14-2019	Designer
10	Final Requirements Specifications Document due.	--	11-25-2019	Designer
11	Final project demonstrations.	12-02-2019	12-04-2019	Designer

8.0 Project Team

AidConnect is comprised of seven motivated members, feel free to come learn more about our company at the following website: <https://trusting-montalcini-84102f.netlify.com/>

If you have questions or clarifications, feel free to contact us through the email provided on connex.

Chua, Jerusha (Human Resources Director)
Eng, Andrew (Chief Marketing Officer)
Joy, Samuel (Chief Operations Officer)
Schell, Alex (Vice President of Sales)
Siemens, Derek (Chief Legal Officer)
Voorthuyzen, Sho Ya (Chief Executive Officer)
Yang, Charles (Chief Financial Officer)

9.0 Glossary of terms

Aid Organization	A non-profit or governmental organization which provides food, clean water, medical assistance or other forms of support to disaster victims who are in need.
Aid Centre	A currently active, fixed or mobile provisional facility that provides a central location near disaster impacted areas where Federal, State, Tribal, and non-government organizations have recovery information, assistance, and services to disaster survivors.
Disaster Victim	Individuals that have been affected by a current disaster
Critical Infrastructure	Systems that provide the fundamentals of communication between common network connections.
Medical Assistance	Medical assistance includes care and treatment of physical and psychological injuries.
Occupancy	The proportion of occupied or in use resources from a service. Ex: hospital.
Administrators	Users who are facilitating information distributed by the organizations
Disaster	A catastrophe which causes damage, injury and/or loss of life.
Reliability	The quality or consistence of performance.
Mobile Device	A portable computing device such as a phone or tablet.
Disaster Response Communication Centres	Division of the aid organizations which centralizes and distributes data coming from aid centres.
Common Network Connection	Includes cellular, satellite, mobile and Wi-Fi networks.