

Milestone #: 3

Date: Mar. 8, 2025

Group Number: 98

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

2. Project Summary

The domain of the application is disaster crisis response/logistics. The application is meant to address the challenges faced during natural disasters, where organizing volunteers, missions, and aid distribution can be overwhelming. This app will help make that process more efficient by ensuring that those in need get the help they need as quickly as possible.

3. Project Timeline and Task Breakdown

- We will divide tasks using the “End-to-end” approach.
 - Each person will work on the required queries (listed in the milestone 4 document) and the corresponding GUI components. Each person will work on 3-4 queries related to the relations.
- Features:

As a contributor, I can:

- donate money or items to a Relief Center and see donation status
- View missions looking for volunteers displayed based on preferences, and volunteer for it (**projection**)
 - volunteer’s role will be determined by the relief center that initialized the mission
 - Find missionType with most priority (**aggregation with group by**)

As a relief center, I can :

- Send, manage supplies (**update**),
- initiate missions (**insert**), allocate volunteers and supplies to missions; delete contributor accounts (**delete**): shows list of contributors (tables for contributor), specify deletion by name and phone number, needs cascade on delete
- view available volunteers and assign them to missions (**select and insert**),
- assign/move victims around shelters (**update**)
- Find all volunteers who have signed up for every mission (**division**) (ie. for every mission during the month of January, top volunteer)
- All the victims that a mission has assisted (**join**)
- For each relief center, Calculate the total number of victims assisted and total number of missions (?)
- sort mission type and find the most important mission

- Find supplies that are all past expirationDate and sort by most expired

General user features:

- Query disaster information (type, location, severity) (**select**)
- Display reports of disaster relief efforts (mission progress, resource usage, and donations received) for **aggregation** queries.
- Donation form page for users to donate funds/supplies, must sign in first to donate (**insert**).
- Sign up and login page to become a contributor (volunteer/donor) (**insert**).
- Calculate the average damageCost of disasters across all disasters (**aggregation** with **group by**) (should this be a general user feature?)

TASKS ASSIGNMENT:

Frontend

- Contributor pages: Andy
- **Relief Center pages: Gordon**
- Main Public pages: Alex

Backend

- Relief center supply, volunteer, mission admin management SQL queries: Gordon
- Relief center view aggregation queries: Andy
- Contributor SQL queries: Andy
- general user features queries: Alex

Meeting with TA on Mar 17, we plan to work on the project incrementally after that.

After the end of week of Mar. 17-22, our goal is to have a minimum functioning website with 1-5 basic queries. We will also continue working after the midterm on Mar. 25 and hope to get a working website before the end of March.