

SUPPLYFLOW

Helping you help others.



The background of the slide is a photograph of a dense urban landscape, likely Hong Kong, showing a high concentration of tall buildings packed closely together. The sky is clear with some wispy clouds.

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Problem Space - The Inspiration

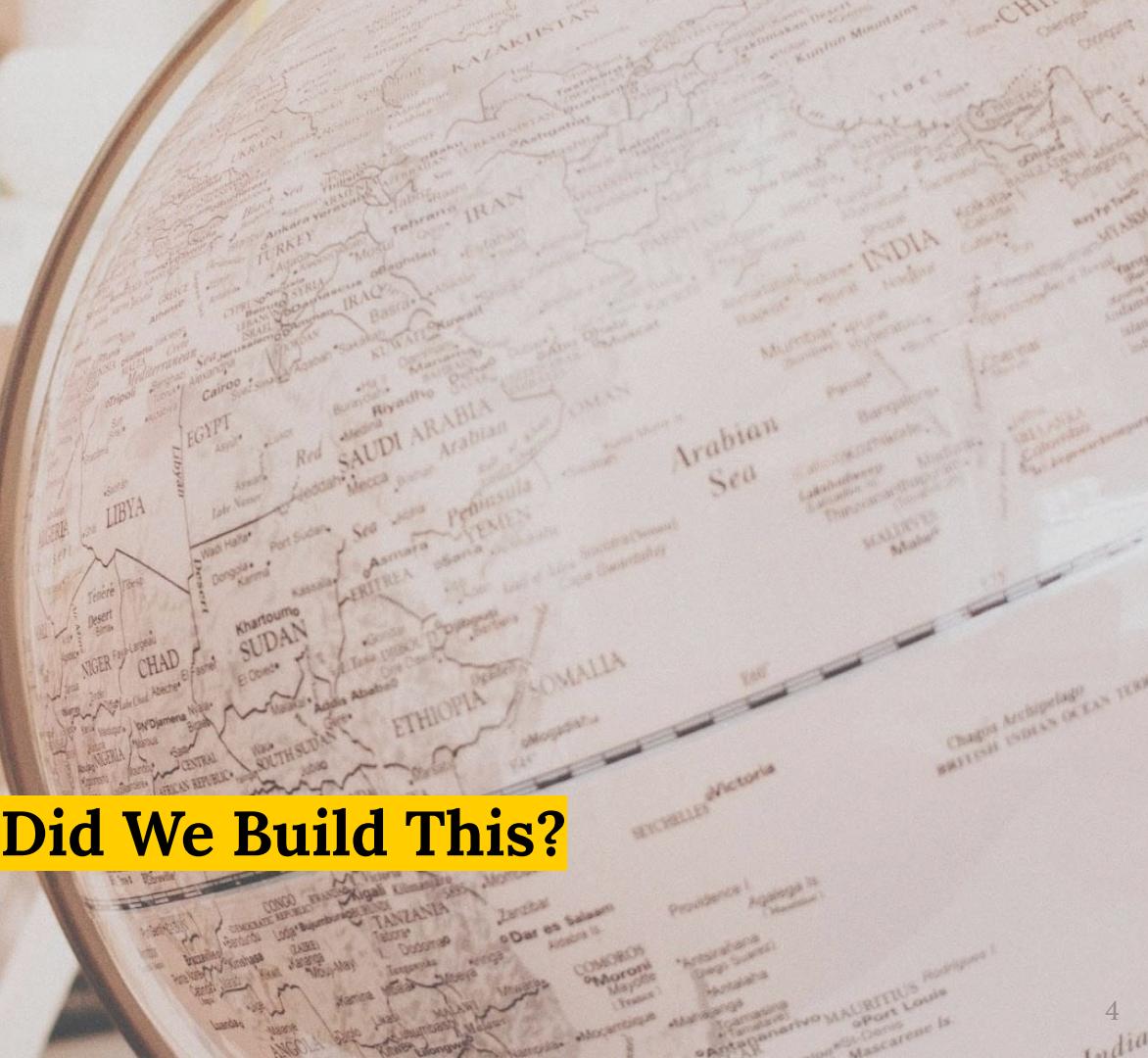
- Unequal distribution of resources and donations to women's and children's homeless shelters



Our Solution

- Weighting of different factors to sort the importance of shelters
- Location and radius
- Storing shelters in a file
- Creating a platform for shelters and volunteers to easily sign up

How Did We Build This?





Shelter Information

- Shelter information is stored in a database
- Used file accessors



Weighting

- **Importance(a,b,c) = X(a) + Y(b) + Z(c)**
 - **a** is days to depletion
 - **b** is the amount of traffic
 - **c** is the average wealth measured in personal income



Location and Radius



Main
Screen



VACC CO.



Welcome to Supply Flow

Helping you help others!

SHELTER

FUNDRAISING
ORGANIZATION



Shelter Supply Screen



Product Screen



**SANITARY
PRODUCTS**



Enter Shelter ID:

Red Cross

**Products Added To
Inventory:**

50

**Products Removed
From Inventory:**

25

**CURRENT
INVENTORY:**

135



*Inventory predicted
to run out by Jan 25,
2020*



Main Screen

The image shows a large tablet device with a light gray background. On the screen, there is a yellow circular icon with three interlocking gears inside, located at the top left. To its right, the text "Main Screen" is displayed in a large, bold, black sans-serif font. In the center of the screen is a graphic featuring four hands (two dark gray, two white) reaching upwards towards a central white hand, all set against a dark gray circular background. To the left of this graphic, the text "VACC CO." is written vertically in a small, black, sans-serif font. To the right of the graphic, there is a large rectangular box with a black border containing the text "Welcome to Supply Flow" in a large, bold, black serif font, followed by "Helping you help others!" in a smaller, regular black serif font. Below this box are two smaller rectangular buttons with black borders: the left one contains the text "SHELTER" and the right one contains "FUNDRAISING ORGANIZATION", both in a bold black sans-serif font.

Welcome to
Supply Flow

Helping you help others!

SHELTER

FUNDRAISING
ORGANIZATION



Organization Info Screen

**THANK YOU FOR
DONATING!**



Fundraised Product:

Sanitary Products

Amount Fundraised:

500

**CALCULATE
DISTRIBUTION!**

Organization Zip Code:

L6C 2M1

**Radius of Distribution:
(km)**

50



Distribution Screen

Your Distribution Amounts!

1. Victim Services of Peel Brampton: 144
2. Redwood: 137
3. Yellow Brick House: 134
4. Our Place Peel: 83





Developed Prototype

←

→

⟳

localhost

Apps

Powershell Core

SYDE 114 Website

ARE YOU SHELTER?

ARE YOU A VOLUNTEER ORGANIZATION?

←

→

⟳

localhost/organization.html

Apps

Powershell Core

SYDE 114 Website

Fundraised Product

How many?

Company Address

Radius You Are Comfortable Distributing To (km)

Calculate How to Distribute Your Products

←

→

⟳

localhost

Apps

Powershell Core

SYDE 114 Website

ARE YOU SHELTER?

ARE YOU A VOLUNTEER ORGANIZATION?

←

→

⟳

localhost/shelter.html

Apps

Powershell Core

SYDE 114 Website

Please select which product inventory you want to update:

Sanitary Products

Diapers

Tooth Paste

Tooth Brush

Hand Soap

Body Soap

Shampoo

Razors

←

→

⟳

localhost/sanitaryproducts.html

Apps

Powershell Core

SYDE 114 Website

Shelter ID

Inventory Count

Get Inventory

Update Inventory



Improvements and Projections

Connect back end and front end

- Create a cohesive program

Better implement CSS and HTML

- Improve visuals and layout



Thanks!

Any *questions* ?