




COVID Support

**INFM 603
Final Project**



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Background

Due to the CDC guidelines for COVID-19, infected individuals and their housemates must follow strict quarantine measures to avoid spreading the virus.

As a result, individuals affected by COVID both economically and healthwise do not have means of obtaining groceries. Challenges:

- Unable to travel
- Decrease in income as a result of job loss or furlough
- Exposure to virus

Many food banks have ramped up efforts to assist vulnerable people in the community. But for those directly affected by virus, it is much harder for them to visit these centers and fully take advantage of the services.

Our Idea

- Inspired by a local nonprofit organization, we decided to create a website and mobile application that allows COVID-19 patients access to groceries and household materials
- This platform allows COVID-19 patients to sign up for food deliveries. The application has added functionality for people who wish to volunteer at specific centers or donate food. With this functionality, food bank organizations can easily recruit volunteers and organize their centers.
- We also developed a wireframe for a mobile app version

Our Application

- Designed for the general public of PG county
 - People affected by COVID
 - Administrative users and developers
 - Volunteers
- Architectural Design
 - Mobile app
 - Webpage
- Languages
 - PHP
 - SQL
 - HTML
 - CSS

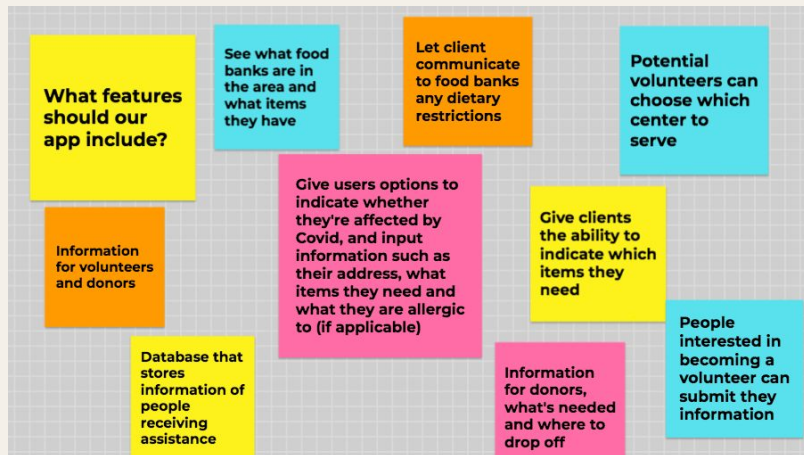
How it works

- Individuals and families suffering from COVID-19 can register for a delivery by submitting information into a form
 - Date tested positive
 - Name
 - Email
 - Supplies required
 - Dietary restrictions
 - Preferred delivery date/time
- Individuals who wish to assist may apply to volunteer
 - Date tested negative
 - Name
 - Email
 - Preferred volunteer location

User Stories and Requirements

- Google Jamboard
 - Brainstorm
 - User stories
 - Features
- Google spreadsheets
 - Use cases
 - Descriptions
 - Prerequisites
 - 12 use cases for clients, volunteers and donors

User Stories and Requirements



User Stories

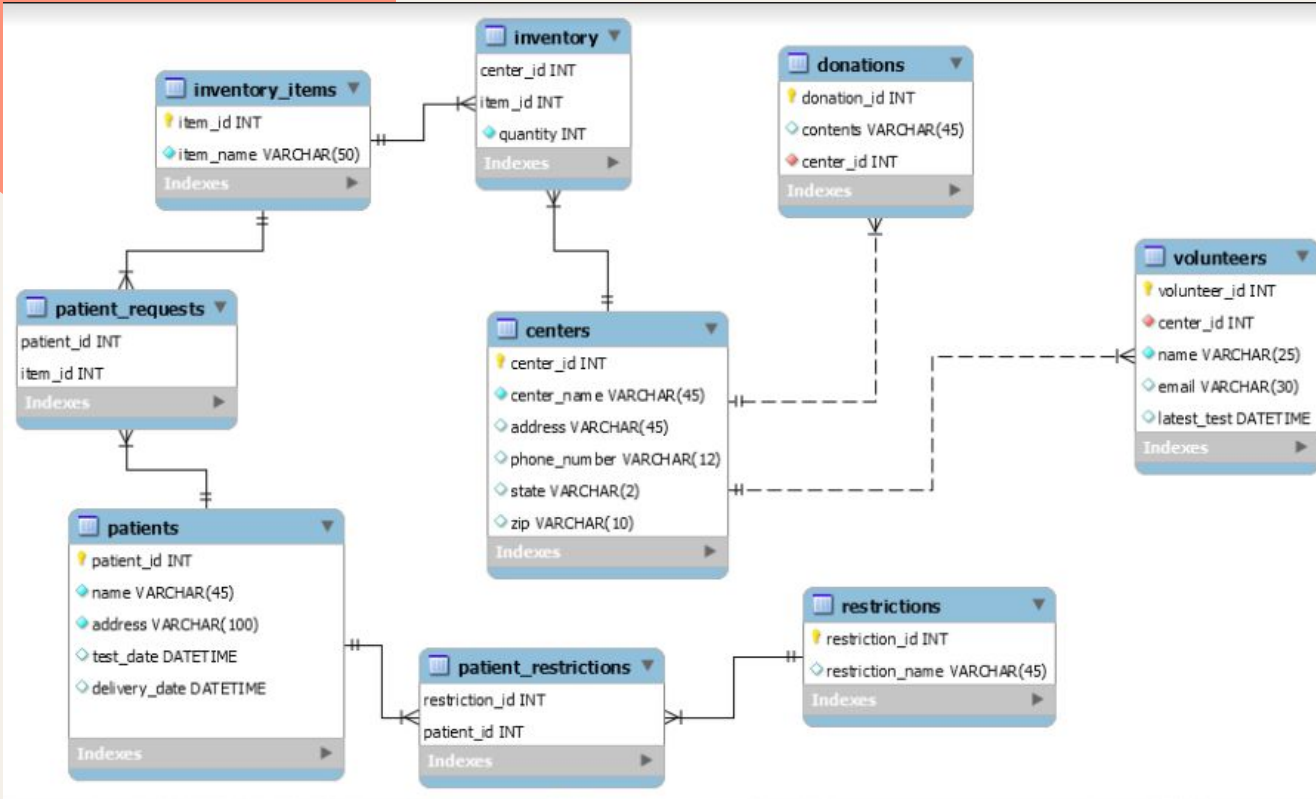
Use Cases

A	B	C	D
Code	Description	Epic Link	Pre-reqs
CA1	As a COVID patient, I would like to be able to receive food and supplies from a nearby food bank (EPIC)		
CA2	As a COVID patient, I would like to communicate to the food centers my condition and and that I qualify for their food delivery services		
CA3	As a COVID patient in quarantine, I need to give the food bank my personal information and address where food can be delivered.		CA2
CA4	As a COVID patient I would like to inform the food bank about my dietary restrictions		
CA5	As a COVID patient I would like to communicate to the food bank which supplies I need in order to minimize food waste and avoid depleting the food bank's resources.		CA2
CA6	I would like to inform the food bank my preferred time where supplies can be delivered at my home		
CA7	I would like to receive a confirmation that the food bank has received my request		
CA8	As a member of the PG community I would like to get in touch with nearby food centers and express my interest in being volunteer (EPIC)		
CA9	As a member of the PG community, I would like to volunteer at a food center closer to where I live		C10
CA10	As a member of the PG community, I would like to submit my contact information so that food banks can contact my about volunteer opportunities		
CA11	As a member of the PG community, I would like to donate food and supplies to food banks that are serving COVID patient (EPIC)		
CA12	As a member of the PG community, interested in donating food, I would like to know which items are needed most and where to drop off my donations		

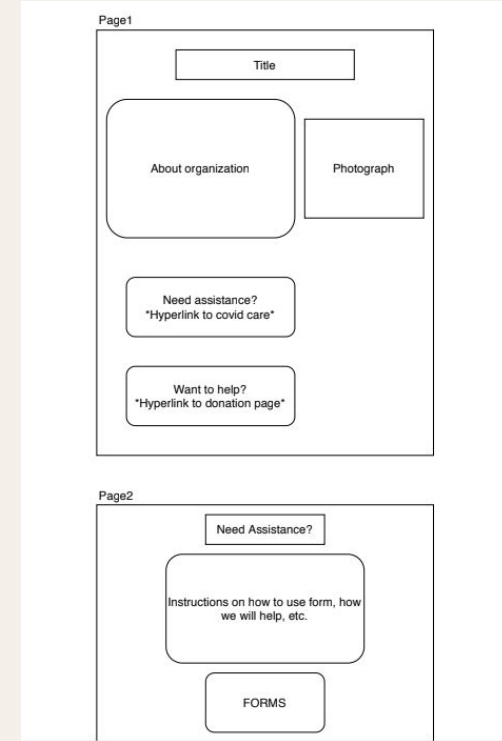
Putting Our Ideas into Action

- Created a website that runs off a database using php to store patients, volunteers, centers and inventory
 - Original plan was to allow people to submit items they plan to donate, but this made little sense to be done remotely
- Individuals fill out a form on the site and the results are sent to the database for sorting
 - For the purpose of showing the changes a results of a SQL select query is shown
- Once an individual's information and needs are in the database, they are linked to a volunteer in their area who can deliver their supplies at a convenient date
- Created a wireframe for both the mobile app and desktop version

Planning process



ERD



Wireframe


Making It Happen









- We worked as a team, dividing tasks while still cooperating on each one
 - Lead programmer: Will - PhP, Database, Html
 - Programmer: Srin - Html, CSS, Figma wireframe
 - Programmer/Design: Kelin - Html, CSS, Graphics
 - Mobile app Designer: Nnamdi - Conceptualization, Figma wireframe
 - Coordinator, planner: Gloria - meetings, sprints, write-up, presentation design.


Making It Happen


- We went through multiple website layout drafts, write-up drafts, and idea boards
- Each artifact worked on by multiple people and double-checked frequently
- Weekly/biweekly meetings
- Utilized Google Drive, Zoom, Figma, GitHub and Trello to effectively work as a team while physically isolated


Making It Happen - Github


 **srinidhinag** Update 603projpage1.html 1bd2abd 15 hours ago 🕒 38 commits


 603projpage1.html	Update 603projpage1.html	15 hours ago
 603projpage2.html	fixing required fields	20 hours ago
 603projpage3.html	Update 603projpage3.html	19 hours ago
 README.md	Initial commit	last month
 cannedfood.jpg	Add files via upload	15 hours ago
 cannedfood2.jpg	Add files via upload	15 hours ago
 coronavirus-hero-goods-food-fund...	header	7 days ago
 covid test.jpg	header	7 days ago


 Commits on Dec 14, 2020



 page2.htr



 page3.htr


 patient.ph



 styles.css



 teamproje


 full functionality for patient.php to results page not HTML
 WillKrapht committed 4 days ago



 moved css to style sheet and initial php
 WillKrapht committed 4 days ago



 Commits on Dec 13, 2020



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 srinidhinag committed 5 days ago

 Update 603projpage2.html
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 Commits on Dec 11, 2020

 Update 603projpage2.html
 srinidhinag committed 7 days ago

 header
 kelwest29 committed 7 days ago

 header
 kelwest29 committed 7 days ago

Contributors 3



srinidhinag



kelwest29



WillKrapht

Languages



● HTML 65.5% ● PHP 18.6%
● CSS 15.9%

The background features a light beige color with several organic, cloud-like shapes in a slightly darker beige. On the right side, there is a large teal-colored semi-circle. Three small triangles are scattered across the image: one orange triangle pointing down in the upper left, one yellow triangle pointing up in the upper right, and one orange triangle pointing up in the lower center.

Website Demo

Mobile Wireframe

Home Screen

COVIDCares



About Us

Need Assistance?

Want to help?

About Us

About

We are a new nonprofit organization working with the Prince George's County government to provide supplies to those in quarantine. Due to the novel coronavirus pandemic, many individuals who are suffering from the virus are in strict quarantine and cannot travel to obtain groceries or home staples. We are aiming to help these individuals by providing some supplies and care.

We have [five] food banks that individuals donate food to, and our volunteers deliver it to our [participants] at their convenience. We keep all dietary restrictions and needed items in mind, so that no one ends up with unusable goods. We're happy to help anyone who needs it. Simple use one of the forms below please let us know what you need, and we'll be on our way.



Need Assistance?

Full Name

Email

Address

Date of Positive Test

Preferred Delivery
Date and Time

Dietary Restrictions

- ☐ No Meat
- ☐ No Fish
- ☐ No Dairy
- ☐ No Gluten
- ☐ No Nuts

Supplies Needed

- ☐ Canned Vegetables
- ☐ Canned Soup

How to Help

Full Name

Email

Address

Date of Last
Negative
COVID-19 Test

Preferred Volunteer
Locations

- ☐ Bridgeway Community Cupboard
- ☐ United Methodist Church
- ☐ Rachell L. Gray Community Foundation
- ☐ Ellicott City Head Start Center
- ☐ North Laurel Multi-Service Center
- ☐ Solomons Porch Worship Center

Thank you

Thank You!

Thank you for submitting your responses! We will get back to you as soon as possible.



Testing Our Work

- Manual tests for database and form submission
- Submitting many different forms to test our SQL and PHP code
- Preconditions: mostly non applicable
- Steps - Covid-19 patient:
 - Click on the “need assistance” tab to open a form
 - Enter personal information
 - Name
 - Address
 - Date of positive test
 - Select needed items using radio buttons
 - Submit form

Testing Our Work

- Steps - Volunteers:
 - Click on the “how to help” tab to open a form
 - Enter personal information
 - Name
 - Address
 - Date of negative test
- Select preferred center
- Submit form

Improvements

- Website design
- Page acknowledging receipt of request
- Donation form for potential donors
- Search for food banks in the area

Thank you for listening!

Any questions?

