Team #1
Team name: **Team One**
Team members: Micah Cook, Philip Knott, Joseph Nam, Matt Eccles, Jacob Line

Application name: CharityHub

Application Description: The goal of this project is to provide a simple and accessible way for charities, nonprofits, and disaster-relief organizations to expand their reach to potential donors. The foundation of our system would be to allow people who have philanthropic interests to access an organized system to find charities and resources that help them put money towards helping missions that are important to them. We want to bring a relative easy to the process of donating towards a charity. Oftentimes it can be hard to find a charity that matches your intended mission, and can take a lot of research to ensure that the money is being put towards positive aspects.

There currently is no 1 centralized system that allows philanthropic individuals to search for reputable charities. Our system would combine information about the mission, location, statistics about the impact, and number of individuals that the charity has. This would allow individuals to better curate their charitable portfolio and to help charities that may not get recognition elsewhere because they do not have a lot of media coverage. This would also allow charities to get starter donations, because there may be an issue that is rather new and would otherwise have a hard time finding a starting source.

This product is a non-profit centralized database that provides a straight-forward and accessible way for common people to find charities catered to their interests or relevant to their situations. It will also provide a streamlined way for people to start their own charities or foundations by listing all necessary steps to establish themselves, as well as allow them to upload a statement with their statistics and goals to help them be categorized and recommended to users. Unlike GoFundMe, our product will not provide rewards or tiers for donating, but instead remain a straightforward process solely for the benefit of the hosting organizations.

Vision statement: To provide a simple and accessible hub for charities, non-profits, and disaster-relief organizations to find potential donors, from casual users to philanthropists.

Version Control: https://github.com/CSCI-3308-CU-Boulder/209-1-FA20

Development method: We will use the Scrum Agile methodology as the main methodology for the project. We could incorporate other methodologies to create a Scrum Agile hybrid later on but for now the primary development method is Scrum Agile. Will most likely use Jira as our project management tool.

Communication Plan: Most likely move to Slack to better organize communication around specific tasks, rather than one imessage group chat for everything (which can become messy). Slack will be used to communicate to other group members via text channels to send text, screenshots, code snippets, etc. It will be used to send direct messages to other team members. Slack can also be used to organize meeting links, times, etc.

Meeting Plan: Weekly meetings on Monday 3:00 - 4:00 PM, Thursdays 11:00 AM - 12:00 PM
Meeting Link: https://cuboulder.zoom.us/j/95455771473
TA Meeting: Thursdays at 12:00 PM

Proposed Architecture Plan: Web-based program. Front end will be Node.js (Javascript, HTML, CSS), and will deal with presentation and user-interface, site hierarchy, etc. Back end will be in C++ and will organize what's presented to the user based on recommendations, proximity settings (local/national/international), etc. We'll use MongoDB or NoSQL for our database to store the charities and their information, etc.

Use Case Diagram:
Actors [min 3]:
- Activist that wants to create a sustainable charity.
- Site administrators? (maybe)
- User who wants to donate (casual user, philanthropist, etc.)

Use cases [min 15, 5 per actor]
- User (Donator)
    - Create account (register)
    - Search specific charities
    - Look at specific groups of charities (disaster relief, education, etc.)
    - Donate
    - Login to account
    - Favorite charities (favorite charities for later if people want to re-donate later)?
    - Save payment information?
    - Donation matching/ Share link to charity
- Activist (Charity Creator)
    - Create account (register)/ Logins
    - Fill out forms to make 501c3 charity > We file forms
    - Make a page for your charity asking for donations
    - When your Charity is official > We collect pledges and deposit in charity account
    - Send each pledge pregenerated tax write off forms post-donation
    - Goal adjustments/ specific donation allocation
- Site Administrator (Moderator)
    - Ban user
    - Verify users
    - Delete charity, relief program, etc.
    - Delete program information (name, description, etc.)

- Collaborate with leaders of organizations that want charity in the program
- Look through data to search for suspicious activity

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                              │  CharityHub  │
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          ┌──────────────────────────┼──────────────────────────┐
     ┌────┴─────┐                ┌────┴─────┐                ┌────┴─────┐
     │ Donator  │                │ Activist │                │  Admin   │
     └──────────┘                └──────────┘                └──────────┘
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Donator	Activist	Admin
Create account	Create account (register)	Modify charity/ relief program/ etc.
Search specific charities	Fill forms to make 501c3 charity	Data search for suspicious activity
Save payment information	Page layout for charity/donations	Verify users/ Charity info
Donation matching/ Share link to charity	Send each pledge per-generated tax forms post-donation	Ban user
Donate	Donation goal adjustments/ specific donation allocation	Assist with organization leads