Describe your idea here. It needs to be an idea for software. You need to describe who would use it and what it would do. Be specific. Be persuasive. We will use these ideas to select the projects we will do this semester. Your description can include pictures, but you need to write at least one page about it. Include a descriptive title for the project too. Search the web (Github, SourceForge, StackSocial or online tutorials, etc.) for similar projects or projects you could use as parts of your software. Put those sources in your document.**I expect to see at least one source URL.**

You will be sorting yourselves into projects using these documents. You can work alone or with others. I do not want any groups larger than 4 people.

 Also, post your idea into the Projects Excel sheet in our Projects and Presentations tab in Teams.

Turn in this exercise as a Microsoft Word document. Each individual needs to turn in this assignment. No two people have the same dreams. Once you enter all of your information in both places and decide on solo work or gather a team, your project is auto-approved to begin.

Our proposal introduces the idea of developing an application called STaRT (Simple Triage and Rapid Treatment). This application will be used by Citizens Corps and other community-based organizations who are prepared to serve as a crucial resource capable of performing many of the emergency functions needed in the immediate post-disaster period. This idea emerged after the three of us discussed options for the HMI 7540 project by focusing on our backgrounds and desire to introduce a concept that can be done electronically to benefit the masses. The three of us have background in disaster recovery and emergency response:

* Farah Muttardy, a Libyan native, is an MD who experienced first-hand the traumas of war casualties in the Libyan Liberation War
* Richard Ogniewski, a former Naval officer and current , is xxx
* Elie Tannouri is CERT (Community Emergency Response Team) certified - red cross first aid certified with active shooter preparedness training

In 1994, the Federal Emergency Management Agency (FEMA) expanded the CERT materials to make them applicable to all hazards and made the program available to communities nationwide. According to CERT training manual: “Community-based preparedness planning allows us to prepare for and respond to anticipated disruptions and potential hazards following a disaster.”

We believe this application can be used worldwide since, according to: <https://emergencyassistancefdn.org/natural-disasters-increasing/>, Natural disasters - such as earthquakes, hurricanes, tornados, avalanches, floods, wildfires, and severe winter storms - have the ability to cause large-scale damage and threaten human health and safety, property, and infrastructure. It’s difficult to predict exactly when a natural disaster will occur and the impact it will have. Damage from these events can be catastrophic and they can lead to the loss of property, being stranded, suffering from injuries, and even death.

Chart, bar chart

Description automatically generated

Currently, there are 8 manually filled CERT documentation forms that are used to facilitate documentation and information flow: Damage Assessment, Personnel Resources Sign-In, Incident/Assignment Tracking Log, Briefing Assignment, Victim Treatment Area Record, Communications Log, Equipment Inventory, and General Message. Our application will mainly focus on the following three reports:

1. Incident/Assignment Tracking Log – properties inspected by whom and when and the result of the inspection
2. Victim Treatment Area Record – document the casualties and their level of harm (including any personal and contact info, such as: name, age, injury, seriousness of the condition, location where the injury took place, …)
3. Fatality/Catastrophe Report – document the fatalities including any personal info that can be collected, otherwise: FNU (first name unknown) and LNU (last name unknown) conventions will apply

We looked online (GitHub) and searched for an application of similar use, we only came across one called pSTaRT developed by Kurt Hoblinger in 2021, it is an iOS app that is limited in scope and does not have the features we are planning to introduce. The link to the literature on that application is: [pSTaRT/pSTaRT Manual and Description.pdf at master · nitricware/pSTaRT (github.com)](https://github.com/nitricware/pSTaRT/blob/master/pSTaRT%20Manual%20and%20Description.pdf).

We already have a preliminary workflow process (next page) that we are considering using for developing the application in Python. Since the application includes multi-modules (property, search crew, and casualties), we are planning on using mySQL as the database to hold the details.

Workflow Process:

Diagram

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