Problem statement:

The world as we know it has changed forever because of COVID-19. The pandemic has affected everything, starting from health of the people to the Global Economy. This led all the pharmaceutical organizations on a race to the find the vaccine first for COVID-19. This Pandemic took a toll on front line workers, the national economy and almost everything that matters.

Managing this pandemic along with other emergencies especially for third world countries is huge ordeal. Although vaccines have started to roll out, the number of COVID-19 cases have not dipped. Even in the most developed countries, the number of COVID-19 cases are increasing day by day and to handle this pandemic with other emergencies such as a crime/misdemeanor or a fire incident that occurs out of nowhere, it’s a rather strenuous to handle all of these at the same time.

Proposed solution:

The purpose of our healthcare and emergency response system is to manage both the COVID-19 situation as well as attend to the emergency situations that may arise during the ongoing pandemic. Furthermore, this application helps us to keep track of the number of COVID-19 cases and the number of people who have been vaccinated against COVID-19.

Key Functionalities:

* COVID-19 testing/result.
* Blood donation from healthy patients.
* Email Alerts to users regarding their registration and appointment status.
* Checking the temperature of person using the camera.
* Fire Department, Police department and Medical emergency will be part of 911 response system once user reports a particular type of emergency.
* Managing stock of blood donated.
* Managing stock of the medicines/drugs in the pharmacy.
* Government official viewing the report of number of COVID-19 cases.
* Government official viewing the report of number of people vaccinated against COVID-19.
* Doctor consulting and prescribing medicine to the patient if necessary.

Diagram

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