

**INFO5100 Application Engineering And Development**  
**Final Project Proposal Fall 2019**

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**Project Name – HealthGo**

**Problem Statement**

Every year millions of people Worldwide suffer stroke and a majority of these people either are permanently disabled, or they pass away. The main reason being the delay in treatment which needs to be started within the very short amount of time a patient has.

**Solution**

When a person suffers stroke, he/she usually has 3.5 hours to get treated with the first hour being the most critical one. **HealthGo** is an application to help the patient get immediate treatment in time, by alerting the required people like the nearest ambulance, the nearest hospital, the neurologist, the radiologist, the pharmacies closest to the hospital and the other people/organizations that play an important role to provide successful treatment in the least amount of time. This will reduce the overall door to needle time and thus increasing the chances of a person to be saved and getting back to being healthy.

**Organizations Involved**

- Hospitals
- Pharmacies
- Insurance companies
- Labs and diagnostic centre
- Ambulance
- Police Station

**Entities Involved**

- Patient
- Doctors and nursing staff
- Lab technicians
- Ambulance
- Pharmaceutical agents
- Medicine delivery people
- Insurance agents
- Police Officers

**Application Functionalities**

- Patients will have user accounts with IDs where credentials along with previous medical details can be updated and viewed.
- Hospitals will have user accounts for different entities like doctors, nursing, labs to submit their details and also to access the details to the patients for treatment and updating records.
- The insurance companies will have their insurance plans available so as to link it to the patient profile.
- Ambulance will have user account to get notified about the emergency and the details of patients like location and time of incidence.
- The patient who feels the symptoms of the Stroke like numbness of the face, weakness in the limbs at either side of the body can request emergency by pressing the emergency button.

- The nearby hospitals, neurologists, radiologist, nursing staff under the emergency department, labs and testing centres, ambulances, pharmacies and nearby police stations will be sent alert on the emergency, so that the time required for the services to become active is less and the help can be provided at the least possible time.
- The hospitals can prepare the things required to treat the patient without a separate request to be processed.
- The doctors will be notified and thus allow them to reach the hospital in the least amount of time.
- The pharmacies would be able to arrange the required drugs within the required time to again remove any chances of failure in the procedures.
- The police can arrange an escort service to allow fastest commute time to the hospital.
- This also opens the opportunities to expand for other medical emergencies.

## Eco-System Architecture Diagram

