

Project Plan

1 AREAS OF FOCUS

Different kinds of Areas of Focus detailed in their appropriate sub-sections.

1.1 Unit(s) of Focus

General Health Informatics, Health Interoperability & Tools.

1.2 Topic's Primary Area of Focus (or External/TA Mentor Topic Area)

Acute Care, Clinical Quality and Safety, Public Health, Consumer Health.

1.3 Any particular secondary areas of focus

Health Analytics & Visualizations - Allow for patients to view any statistically relevant pieces of information related to primary topics, such as lab results.

2 BACKGROUND AND SIGNIFICANCE

This project was listed on the suggested external proposals, # 15 - Inpatient Summary App. The TA Mentor for this project proposal is Raj Vansia.

After waking up from an acute care situation, patients may be given too much information regarding their visit. They may have been given information but are too disorientated to fully process the information. Having a display that illustrates their condition and other relevant information can allow for patients to get a better grasp on their situation.

3 PROBLEM

While at the hospital in an acute care situation, patients do not have access to as much relevant information as they could in relation to their current visit. Since there is no easily accessible or readable area for them to find this information, patients might not be able to remember some of it and have increased anxiety in an acute situation.

4 PROPOSED SOLUTION OR IDEA

Deploy a web application that is accessible by the patient that has information regarding their current visit, such as which doctors are actively involved in their acute situation. This application will also have the ability to show additional information such as which medications

are currently being used, and any relevant lab results. This leads to a more informed patient which can reduce any errors caused by miscommunication, and to reduce their stress levels.

5 COMPLEXITY OR EFFORT (INCLUDING DETAILS HOW YOUR APPROACH CONSIDERS HEALTHCARE POLICY, PRIVACY AND SECURITY)

Currently the technical architecture being planned to use is an Angular web-application hosted on GitHub pages and will have views for both authenticated and non-authenticated experiences.

Since information is going to be tailored to the individual patient in regards to their current visit, and there might be security concerns with regards to this information, some sort of authentication will be needed to guard the information.

One proposed solution to this is that the doctors will provide an automatically generated key to the patient to use to login and view this information. This login information will only last for a couple of days as it is supposed to be relevant to their current visit only, but might also be saved in the hospital EMR accessible via another means. Some kind of record summary for the patient could also be available, potentially both by print or email.

Other real-world hurdles to this project include the added time necessary for the hospital to either input data into record while the patient is still at the hospital, or publish the data to where the application can access it. However that will not be addressed in the application itself - except for keeping in mind which data might already be accessible, and which data might need extra work to be freshly input.

6 TEAM MEMBERS & ROLES

Dhonovan Hauserman - Application and Web Developer

Somath Choup - Application and Web Developer

Tejas Vedantham - Developer and Tester