SHAMIM NEMATI
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(List skills needed) – Python, Java, Mobile App, Web Development, Stand Alone App Development, Responsive Web Design, Human Centered Design, Workflow/Process Optimization, Project Management, Communications

Preferred Team Communications:

WEBEX, Skype or Conference call

Data Sources:

A sample dataset from the Emory clinical data warehouse (CDW) will be provided.

Other Items:

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

A FHIR-ENABLED AUTOMATED DAILY NEWSLETTER FOR FAMILIES OF IN-HOSPITAL PATIENTS

A patient's hospital course is fast paced and rapidly evolving. Many studies emphasize communication between patients/family with their physician as a major contributor to their satisfaction with care. Physicians currently provide numerous updates to patients regarding their clinical condition daily. This may come in the form of a diagnosis, prognosis, treatment plan, or anticipatory guidance. While patients and families appreciate regular updates, they can feel overwhelmed by the large amount of information that is provided, often all at once. After taking the time to process it, patients later have more specific questions regarding their health – with no one available to answer them. One way to bridge this gap would be to supplement a physician's verbal updates with a written newsletter that can be referred to as new questions arise.

PROJECT OBJECTIVES

Design an automated newsletter used in conjunction with physician bedside updates.

SUCCESSFUL PROJECT

We propose a FHIR-compatible tool that retrieves diagnostic codes updated by hospital staff (ranked by relevance and acuity), then uses them to query databases of pre-written patient handouts (either commercial or public domain), to generate a daily automated newsletter intended for patients and family wishing to learn more about their clinical condition.

Intellectual Property: Project involves a government agency so the resulting project is made available to the public. Students do not own IP. Students will be recognized as contributors