
GREG DAMHORST

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Required Skills:

Tech Skills: No preference

Preferred Team Communications:

Conference Call, to be discussed

Data Sources:

Various options are available to obtain EMR data the purpose of development of the tool.

Other Items:

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

Team Info:

Needs a Developer, Analyst, DBA, QA, Project Manager. Allows one team of 4-6 members.

CUSTOMIZABLE DAILY ROUNDING REPORT FOR INPATIENT MANAGEMENT

Hospital-based clinicians encounter a large volume of dynamic data every day. Electronic medical records display these data in a manner that can be cumbersome, often with limited ability for the clinician to customize or curate how data are displayed. Meanwhile, it is common for clinicians, especially learners, to spend a significant amount of time during a routine workday handwriting data from the electronic record to paper for reference while on the wards and during team rounding activities. This practice can be timely and takes away from time spent with patients at the bedside. The propose project is a FHIR-enabled application for customizable display of routine electronic medical record data for day-to-day use on inpatient medicine services. The initial objective would be a report view-able on a desktop computer and designed for single-page printing which can capture the patients current condition with intuitive display of relevant medical data. The project would seek to emphasize customizability for the end user such that data can be organized by the clinician for the most efficient review of daily hospital data according to user preference and sub-specialty. Potential features may include plotting of time series data (e.g. vital signs and laboratory data), graphical representation of clinical parameters (e.g. intake/output data), and alerts to highlight critical data values. Potential expansion of the tool might include a counterpart mobile device application.

PROJECT OBJECTIVES

Produce an application that organizes clinical data in a printable single-page rounding report with emphasis on customizability according to user preference.

SUCCESSFUL PROJECT

To Be Discussed

Intellectual Property: None