JORDAN DUBIQUE

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Required Skills:

Java, Node.js, Web(HTML/JS/CSS), Angular, Other NoSQL

Preferred Team Communications:

Conference Call, to be discussed

Data Sources:

Electronic Health Records, Clinical Quality and Safety, TBD

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, Project Manager. Allows one team of 4-6 members.

AKI TOOLKIT

Acute kidney injury is a common medical problem encountered in the hospital(8%-16% of hospital admissions), with serious implications(fourfold increase in hospital mortality). It is defined as an acute(hours to days) decrease in renal function. We are looking to create an FHIR application that would have capabilities to incorporate clinical decision support into an application for the management of AKI(Acute Kidney Injury), this app would have basic rules based on guideline recommendations and be able to make suggestions for labs, and orders, calculate renal indices, and detect if a patient has an AKI and grade its severity, based on reviewing a pts previous labs(if they exist). The app would also seek to populate documentation, in a manner that is helpful to clinicians. In summary we are looking to implement an AKI toolkit for physicians and hopefully create a model for subsequent tool-kits for the management of common medical problems in an evidence based manner.

PROJECT OBJECTIVES

Development of a CDS tool that improves the clinicians ability to provide high value healthcare.

SUCCESSFUL PROJECT

To Be Discussed

Intellectual Property: None