LORENZO DI FRANCESCO

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Required Skills:

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:

Georgia Tech synthetic data will be sufficient for the project.

Other Items:

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

MODIFIED EARLY WARNING SYSTEM

Hospitalized patient follow one of two trajectories either improvement or decompensation. Clinical monitoring occurs daily by physicians however employing a modified early warning system that utilizes a number of EHR embedded metrics can be used to create an automated early warning system (EWS) that can alert the clinical team to vital sign changes in their patients that might herald an impending decompensation.

PROJECT OBJECTIVES

Develop an FHIR App to enable integration of clinically actionable information from EMR to create a modified early warning system.

SUCCESSFUL PROJECT

Criteria for a successful project would include development of a FHIR app that can continuously calculate a modified early warning score for individual hospitalized patients and post a clinician alert when preset abnormal score are calculated and/or activate a rapid response team visit.

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