
BRANDON RAAB

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Required Skills:

Java, Python, JavaScript, Web Application, Responsive Design, UI Design, Node, Dot Net, Databases, Other

Preferred Team Communications:

Conference Call, to be discussed

Data Sources:

To Be discussed.

Other Items:

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

Team Info:

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

FHIR, A SIMPLE SOLUTION FOR COMPLEX CARE

According to the Agency for Healthcare Research and Quality (AHRQ): Care coordination in the primary care practice involves deliberately organizing patient care activities and sharing information among all of the participants concerned with a patient's care to achieve safer and more effective care. (AHRQ) Proper care coordination amongst our complex care population continues to be a struggle for many individuals, families, health care providers and payers. FHIR gives us the foundation to introduce solutions that will improve the quality of care, and quality of life, for those that need it the most. A secure group chat sharing real-time clinical data via FHIR In certain cases, as can be frequently found with Autism, an individual can require services across multiple provider types and specialties. A single patient can have providers specializing in medical, behavioral, social, speech therapy, and care-coordination to name a few. Adding to the difficulty is the logistics of getting these providers to communicate and share information in a timely and useable manner. The coordination required to gather all participants into a physical location at the same time creates a very complex scheduling task that can require planning many months in advance. A secure group video chat, combined with clinical data retrieved from the participating EHRs, or other clinical sources, can help to close gaps in care, reduce cost, and mostly importantly, improve the quality lives of those needing the most relief.

PROJECT OBJECTIVES

Build a solution that incorporates FHIR data from a clinical source(s) with application data captured during the session. Session notes along with the user and timestamp is a good example of what would be captured. Group members should be able to join the meeting using login credentials such as a session id.

SUCCESSFUL PROJECT

A running application (web based user interface) that can allow for users to participate in a group chat, based on a PIN or chat ID of some sort. The app will need to make real time reads from and updates to an EHR using FHIR and will need to store the session meta data and session notes in a local database.

Intellectual Property: None