
KAILAH DAVIS

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Required Skills:

(List skills needed) – Java, SQL

Preferred Team Communications:

Conference Call

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, Analyst, DBA.
Allows two teams of 4-6 members.

DRUG OVERDOSE REPORTING

General Acute hospitals are required by state statute to report schedule II-V overdoses to the Utah Department of Commerce. Current reporting mechanism, like many states, is a manual process. Within 3 days of the overdose, designated hospital representatives report to the state agency through a user interface. There is not a robust infrastructure in place to automate this reporting; as a result, data quality and completeness for these reported overdoses are lacking. For instance, there's lack of complete patient demographics and there's no standardized drug names, reporting hospital, and visit outcomes, thus making the data difficult to analyze the data to identify patterns and risk factors. In addition to hospital reporting, the state agency has to notify practitioners who prescribed controlled substance (s) to the overdosed patient in the last year. Currently, identification is a manual process and notification to practitioners are through mailed letters. Both processes can be time consuming, labor intensive, and untimely.

PROJECT OBJECTIVES

The objectives of the project are: 1) develop a FHIR-based app that automatically facilitates the reporting of a drug overdose from a EHR system to the state agency; and 2) provide the state agency administrators the ability to view cases, along with all prescribers who prescribed the patient in the last years.

SUCCESSFUL PROJECT

To Be Discussed

Intellectual Property: None