DAVID JONES & PAULA BRAUN

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Required Skills:

Workflow/Process Optimization ava, Project Management, Communications. Secondary skills: Java, Python, Web app development, Python, Responsive Web Design, Human Centered Design, Open Source Database

Preferred Team Communications:

Google Hangouts, fine with any method

Data Sources:

Georgia Tech synthetic data will be sufficient for the project. Data is located on a non-FHIR server. Mentor will provide synthetic data for the project..

Other Items:

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

Intellectual Property: TBD

NEWBORN SCREENING DATA ON FHIR

The Utah Newborn Screening Program collects a variety of demographic data from the screening specimen that is sent in for a newborn. Often the data collected is missing or inaccurate. In order to complete the data and/or ensure accuracy, the Utah Newborn Screening Program compares this data against the Utah Office of Vital Records and Statistics data from birth and death certificates. The current process is antiquated and would benefit from the usage of a newer technology like FHIR.

PROJECT OBJECTIVES

Provide an interesting project for students to work on, engage with students as a mentor, and hopefully develop a FHIR interface to compare the data between the Utah Newborn Screening Program and the Utah Office of Vital Records and Statistics

SUCCESSFUL PROJECT

Develop a FHIR interface to compare the data between the Utah Newborn Screening Program and the Utah Office of Vital Records and Statistics: newborn's date of birth, newborn's full name, newborn's gestational age, newborn's date of death, newborn's birth weight, newborn's congenital defects, newborn's race, newborn's ethnicity, newborn's gender, mother's full name, and mother's date of birth.