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## FRED AABEDI

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### **Required Skills:**

(List skills needed) – Java, Python, Node, Web (HTML / JS / CSS), Angular, React, MySQL, Postgres

### **Preferred Team Communications:**

Conference Call, to be discussed

### **Data Sources:**

Electronic Health Records, Health Information Exchange, Clinical Quality and Safety, Consumer Health, Health Data Analytics,

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

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## FHIR DRUG INTERACTION CHECKER

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Drug-drug interactions occur when two or more drugs – prescription and/or OTC - react with each other. Some drug interactions can make the drug you take less effective and some combinations of drugs can be dangerous. For example, mixing a drug you take to help you sleep (a sedative) and a drug you take for allergies (an antihistamine) can slow your reactions and make driving a car or operating machinery dangerous. Also, not all drugs work in the same way in all people. Some may have drug allergies. Some drugs should not be given to patients with certain conditions. You could be harmed and not helped by a drug designed to treat cold symptoms. For example, if you have high blood pressure, cold medications containing a decongestant may actually raise your blood pressure. It will be helpful to analyze the prescription medications and allergies and medical conditions in the EHR with additional OTC drugs and supplements a patient takes to avoid drug interaction risk.

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## PROJECT OBJECTIVES

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Develop a Smart on FHIR App that integrates with a FHIR enabled EHR API, like Epic App Orchard to retrieve Medications prescribed and check for Drug interactions similar to WebMD or other Drug Interaction Checkers and create alerts. It should allow entry of OTC Drugs and consider specific patient drug allergies and medical conditions that are indicated in the HER. FHIR enabled EHRs like Epic and manual entry for OTC.

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## SUCCESSFUL PROJECT

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To Be Discussed

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**Intellectual Property: None**