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## ALEX MACDONALD

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### **Required Skills:**

Android and/or iOS development

### **Preferred Team Communications:**

Conference Call, to be discussed

### **Data Sources:**

<https://rxnav.nlm.nih.gov/InteractionAPIs.html#> or similar.

### **Other Items:**

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

### **Team Info:**

Needs a Developer, Project Manager and QA. Allows one team of 4-6 members.

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## MOBILE PHR DRUG-DRUG INTERACTION TOOL

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Drug interactions are a risk factor for patient morbidity or mortality. Interactions can occur between any combination of prescribed, over the counter or natural remedies.

Currently there is no simple to use tool that allows the consumer to check interactions on medications and remedies they are taking.

This proposal is to develop a mobile PHR tool that determines possible drug interactions and notifies the user of possible adverse interactions, including severity.

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### PROJECT OBJECTIVES

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Build or integrate with an existing FHIR based mobile IHR/PHR tool to capture prescribed drugs as well as allow for ad-hoc capture of natural remedies and OTC drugs.

If the active ingredients for a drug or natural remedy is not on file, the patient should be able to capture the information by following suitably worded prompts

The tool should display any interactions as well as warnings for each medication

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### SUCCESSFUL PROJECT

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A proof of concept that demonstrates the technology and techniques that facilitate effective early warning for a drug-drug interaction

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**Intellectual Property:** None