
ALEX MACDONALD

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Required Skills:

Android and/or iOS development

Preferred Team Communications:

Conference Call, to be discussed

Data Sources:

Generate sample data.

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.

MOBILE IHR TOOL FOR PRACTICE ON-BOARDING

In the modern age of Electronic Health Records and ubiquitous mobile devices, we still find patients having to complete paper forms when visiting their medical providers. Apart from annoying the patient, it requires that they transcribe their medical history at a time they are not at their best, or of limited capacity.

Granted HIPAA privacy regulations make transferring patient data more onerous. However, as patients start to keep their history in a PHR/IHR on their mobile devices, the situation begs for a tool that will close the loop and improve the process for the patient.

If this becomes accepted practice, it could be extended to those emergency cases where a patient is not lucid, and medical history is needed to ensure there are no adverse drug interactions or contra-indicated treatments.

PROJECT OBJECTIVES

Build a suitable (QR) Code generator that encodes the required fields in the practice's on-boarding form, and can be printed and/or displayed in the practice.

Build a mobile tool that:

1. Either stores the patient's PHR in it's own FHIR server, or integrates with an existing FHIR based PHR service like HealthVault.
Optional: Do not assume connectivity at time of check-in, A local secure record for that patient should be kept.
2. Reads the (QR) code for the on-boarding fields and can either:
 - prepare a pdf, or
 - generate another suitable (QR) code on the mobile device with the answering patient data that can be scanned by the practice.
 - securely send the required data to the provider's FHIR server (read from their QR code)

SUCCESSFUL PROJECT

A proof of concept that demonstrates the technology and techniques that meet or exceed HIPAA privacy requirements.

Intellectual Property: None