

Kantara-eCitizen Foundation

Patient Identity and Personal Health Record Open Exchange Architecture

Project Description

Create a web based demonstration of an architecture for patients to have an authenticated identity for gaining access to their health records that is also accessed by their pharmacist and primary physician. The project will show a use case where a patient can have their physician prescribe medicine and for the pharmacist to then note and fill the prescription and the patient receive due notice at every step of the process. The project will include a public report that will briefly outline: the requirements, the architecture of such a system, the anticipated issues in building out such systems, and the benefits to the patients and public of such a system.

Extracted Use Case: A citizen of MN who is currently in university in MA seeks to fill a prescription at a pharmacy in Harvard Sq.

Project Parameters

The project will attempt to integrate the following ideas and systems as appropriate to an open, public and integrated system that is inter-operable with key interdependent systems (see OPIA):

- GSA consistent with Trust Frameworks
- Single sign on system (probably OpenID)
- HIE in and outputs /APIs

Milestones:

Stage One:

- Agree on Project Plan
- Kick-Off Meeting for Project
- Initial Rough Solution Design and Pilot Slide Deck in Mid-March.
- Demo in Mid-April at Event.

Stage Two:

If this is successful, then we would seek funding for a "Pilot". The pilot would include a stakeholder from each part (HIE, Microsoft? MedNet? Other?).

- Pilot Code in June - August.
- Pilots are Conducted September through November.
- January: Publish Report on Pilot, and Make Code, Templates, Architectures, etc Public.

Project Outline

Stage One

Demonstration on a web site of the use case with placeholder technology as necessary to show the entire use case.

Requirements Development

Create a requirements document in an iterative process with a collaborative document, that Kantara and eCitizen Foundation identified subject matter experts can jointly develop. The finished version will be publicly issued as part of a public report. The eCitizen Foundation will establish a BLT (Business/Legal/Technical) methodology for the requirements portion (addressing the fundamental layers in such a system, including the business process, legal review and technology implementation layers).

Architecture

Develop an overview architecture based on the requirements. Use UML or UML like diagrams to indicate the system (to be published in both PNG and SVG formats as part of the final report). Indicate at least the three BLT layers within the architecture.

Working Demonstration

Create a web based site that shows and as practicable based on time and resources includes working functions or placeholder actions.

Stage Two

Create a true implementation based on Stage One using ... tbd.

Resources

eCitizen Foundation will provide Secretariat Services to this project within an eCitizen Workgroup. eCitizen Foundation will raise \$20,000 needed to complete Stage One. Based on Stage One, the needs will be able to be determined for Stage Two of the project.

Kantara will provide Secretariat Services to this project and provide an initial \$2,000 contribution toward eCitizen Foundation. Kantara will also help raise the rest of the funds toward the goal of \$20,000 for Stage One.

Stage Two resources will be determined upon completion of Stage One.