
JINGRAN WEN & PAULA BRAUN

[HTTPS://WWW.LINKEDIN.COM/IN/JINGRAN-W
EN-78105760/](https://www.linkedin.com/in/jingran-wen-78105760/)

[HTTPS://WWW.LINKEDIN.COM/IN/BRAUNPAU
LA/](https://www.linkedin.com/in/braunpaula/)

Required Skills:

Java, MirthConnect, Postgresql,
Java Script, OpenSource Database,
Communications, Project
Management, Communications.
Secondary skills: Web app
development, Python, Human
Centered Design,
Workflow/Process Optimization

Preferred Team

Communications:

gotomeeting, emails

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

GETTING PATIENT'S GOLDEN RECORD FROM MASTER PERSON INDEX SYSTEM THROUGH FHIR

Master person index (MPI) system is the place to link information of a patient from different data sources and to unique identify a patient entity. The ability for end users to query MPI and get the golden record of a person is one critical function of MPI system. This project is to design the business workflow and software prototype which facility query and fetching MPI golden records and other linked identification information using FHIR.

PROJECT OBJECTIVES

- 1) to explore FHIR resources which can be used to represent MPI data, and to map MPI data elements to FHIR resources;
 - 2) to develop business workflow to query, fetch, and send MPI information using FHIR;
 - 3) to develop and implement software prototype which has the ability to query, fetch, and send MPI information using program language;
 - 4) to test and evaluate software prototypes with test cases designed.
-

SUCCESSFUL PROJECT

- 1) able to map MPI data elements to FHIR resources;
 - 2) to design and develop software/application prototype which can connect to MPI system, and through which end user can query MPI and get patients golden identification information;
 - 3) the application designed and developed should be able to send query and get results through FHIR message;
 - 4) Utah Department of Health MPI system is the model MPI system used in this project.
-