**Assignment:** **Special Assignment B**

**Course:** BMI 506

**Date:** March 6, 2015

**Goal:** Feedback and planning for assignment 3

**Project Title:** Patients Like Mine (PLM)

**Team Members:** Matt Halbert (591), Eric Holden (506), Tara Salehpour (506,591), Michelle Winerep (591)

Our team has decided to use the Fast Healthcare Interoperability Resources (FHIR) Clinical Information Model. The data has already been structured in FHIR, so we feel it is logical to continue to use this model. According to our stakeholder and domain expert, Dr. Peter Li, the values and types in FHIR work well with the data we will be using.

According to the FHIR documentation1, FHIR can satisfy the needs covered by all of the previous primary HL7 standards (V2, V3 and Clinical Document Architecture). In many cases, it also provides additional benefits in terms of ease of interoperability. FHIR has a superior ability to interact with EMRs, which is a feature that we will very likely be implementing in order to query and retrieve patient data.

We also need to build a reasoning layer to classify patient data from our database. We plan to utilize Descriptive Logic Ontology using Protégé. This type of mapping will allow us to employ ontologies such as: SNOMED, UMLS, LOINC, and RxNorm in our knowledge model.

**Contributions:**

* Both, Eric and Tara contributed equally.