ACR DICOMweb

Work Plan

December 8, 2016

1. **Dictionary**
   1. Create new Tags class that will be looked up on parsing and will replace the Tag in Elements. (50%, 1 week)
   2. Optimize the Tag class to be space efficient. (0%, 1 week)
   3. Use XSLT to scrape DICOM Standard and generate a complete Data Dictionary, including all IODs, Modules, Macro, etc. (30%, 2 months)
   4. Finish Documentation (90%, ???)
2. **Core**
   1. MINT Style Entities (40%, 3 weeks)
   2. Unit tests
      1. Element
      2. Dataset
      3. Entity
   3. Finish Documentation (85%, ???)
3. **Convert**
   1. Validation
      1. Validate all elements Value Multiplicities
         1. Depends on 1a.
      2. Add any needed Warnings (as needed)
   2. Handle Implicit Little Endian Syntax (60%, 2 weeks) (Chakri)
   3. JSON encode/decode (40%, 4 weeks)
      1. Current
      2. Fast
      3. Pure
      4. Elastic search entries
   4. XML encode/decode (0%, 1 month)- maybe never.
   5. Cleanup ByteBuf (not urgent)
      1. Separate ByteBuf into:
         1. Reader
         2. Writer
      2. Test and improve performance
   6. Finish Documentation (85%, ???)
4. **I/O** 
   1. Finish file system stuff (95%)
   2. HTTP/s file system (20%, 1 week)
   3. Finish Documentation (85%, ???)
5. **De-Identification & Protocoling**
   1. Integrate with new core (1 week)
   2. Complete De-Identifier
      1. Unit Tests
   3. Profiles
      1. Finish spec (90%, 1 day)
      2. Finish compiler (75%, ??)
   4. Profile 6688
6. **HTTP Server**
   1. File Server
      1. Retrieve
      2. Store
      3. Search (elastic)
7. **HTTP Browser Client**
   1. Read, Parse files (100%)
   2. Convert to Metadata & Bulkdata format while parsing (30%, ???)
   3. Transmit files
   4. Add Quarantine and Abort functionality
8. **Non-Browser Client**
   1. ????