

COMP3342 T2-Spring 2021

Project Assignment

COMP3342

Assignment 1: Exploratory Study of Exchange & Interoperability Standards

Submission deadline: 18 April 2021 **extended to Sunday 25th April 2021**
(send me a copy of your presentation as a reply to this message)

Date of presentation: 20+22 April moved to 27 (G1-G5) + 29 (G6-G10) April, during the lecture

As discussed in the lecture, each group is required to undertake an exploratory study to explore one of the exchange and interoperability standards in healthcare.

Each group is required to select one of the following standards to study. Each group must select one of the following standards to study, to avoid more than one group selecting the same standard. A group is also welcome to suggest another relevant standard not listed below. Selection of standard will be on the basis of first come first serve- i.e. the group that selects and reserves the standard first, it will be allocated to that group. I created a shared spreadsheet on google, the link is below.

https://docs.google.com/spreadsheets/d/118I_xVLLas0DMb7ZJE-nvCk2_DhnnI_F1wNK9QHq48Q/edit?usp=sharing

Each group is required to study through their selected standard and summarise its key attributes and features and its general approach. Each group is required then to present it in the lecture.

The presentation will be a 10 min presentation, + 3 min questions.

Standards to consider for your study:

Standard Type	Standard	Group No
Identification & Demographics	ISO/TS 22220:2011 Health Informatics – Identification of Subjects of Health Care	
Architecture Requirements	ISO 18308:2011 Health Informatics – Requirements for an Electronic Health Record Architecture	
Service Architecture	ISO 12967:2009/2020 Health Informatics - Service Architecture (Parts 1 - 3)	
Functional Requirements	ISO/HL7 10781:2015 Health Informatics - HL7 Electronic Health Records-System Functional Model Release 2 (EHR FM)	
Reference Model and Composition	ISO 13940 Health informatics - System of Concepts to Support Continuity of Care	
Reference Model and Composition	ISO 13606 Health informatics - Electronic Health Record Communication Parts 1-3	
Reference Model and Composition	ISO 13972:2015 Health Informatics - Detailed Clinical Models, Characteristics and Processes	

Clinical Knowledge Resources	ISO 13119:2012 Health Informatics - Clinical Knowledge Resources - Metadata	
Data Exchange /EHR archetypes exchange	ISO 13606-5:2010 Health informatics - Electronic Health Record Communication - Part 5: Interface Specification	
Data Privacy and Security	ISO/TS 14441:2013 Health Informatics – Security & Privacy Requirements of EHR Systems for Use in Conformity Assessment	
Information Security Management	ISO/DIS 27799 Health informatics - Information Security Management in Health using ISO/IEC 27002	
Privilege Management and Access Control	ISO 22600:2014 Health informatics - Privilege Management and Access Control Part 1 -3)	
Audit Trail and	ISO 27789:2013 Health informatics - Audit trails for Electronic Health Records	
Digital Certificate	ISO 17090 Health informatics - Public Key Infrastructure (Part 1 - 5)	
Device interoperability	ISO/IEEE 11073-10101:2020 - Health informatics - Device interoperability	
Service Implementation	HL7 Fast Healthcare Interoperability Resources (FHIR)	
communicating health care quality measures	Quality Reporting Document Architecture Web Site Disclaimers (QRDA)	
quality measures as electronic documents	Health Quality Measure Format (HQMF) — a standards-based representation of quality measures as electronic documents	
Data Privacy and Security	The Health Insurance Portability and Accountability Act (HIPAA)	
Architecture	ENV 12967 Standard Architecture for Healthcare Information Systems	
Clinical Research Model	Clinical Data Interchange Standards Consortium (CDISC)-SDTM+CDASH	
Clinical Research Model	Clinical Data Interchange Standards Consortium (CDISC)-SHARE	
Clinical Research Model	Clinical Data Interchange Standards Consortium (CDISC)-BRIDG	