COMP3342
T2-Spring 2021

Project Assignment

As discussed in the lecture, each group is required to undertake a project, that demonstrates different types of interoperability. Each group is required to undertake the following tasks:

1- Write a scenario or a case study of a particular patient case study that follows a patient case needing different healthcare providers with different functions or types of healthcare data to complete their patient healthcare. [this is very similar to the case study undertaken in the lecture tutorial/case study]. The scenario should at least include three different healthcare providers for three different types of care, and thus three different types of healthcare data (e.g. medical/diagnosis data, vital signs data, lab test data, drug data, x-ray/image data etc.)

2- Draw a case study timeline, identifying the different points at which patient care data needs to be exchanged between different healthcare providers, for a integrated patient care. At each point, it should determine the source and destination points.

3- Each group should create a simulated healthcare data (or dataset) for each healthcare provider, as described in the patient scenario/case study. These should include at least three different datasets, that represent the types of healthcare data described in the scenario.

4- Each group is then required to develop an interoperability flow/framework, inclusive of all needed interoperability channels, to run and execute the scenario as described above, to exchange the healthcare data at the identified points of data exchange between sources and destinations. Groups can use the "Mirth Connect" (NextGen) server to demonstrate and execute the scenario or develop their own solution.

5- Each group, is then required write their work in a **report**. Each group is also required to **present and demonstrate** their project work in the lecture.

As mentioned above, all groups are required to demonstrate the running of interoperability, using "Mirth Connect" or any other, which you can do on zoom during the presentation. Each group must have their project demo, on their computer/laptop, to demonstrate their project work, e.g. using Mirth Connect (NextGen) interoperability server. Groups that fail to show a demo, will be disadvantaged.

Submission: Each group is required to submit both their PowerPoint **Presentation** and **Project Report** (include photos of group members in both).

Deadline: Presentations will be on **Thursday 3rd June** (**G1-G5**) and **Tuesday 8th June** (**G6-G10**) during the lectures- on Zoom. **Project Report** and **Presentation** submission will be on **Tuesday 8th June**.