**INFO 5100 Fall 2018,**

**Prof Bugrara, K**

**Due Date 12/9/2018**

**Exploring the construction of a communication ecosystem for multi-party applications**

The objective of the final project is for you to explore and the design and implementation of software systems for complex problems. You will practice our building block techniques to program complex software. You will be play multiple roles in this project to build good understanding of what it means to experience the development and management of information systems. You will play multiple roles on this project: a functional architect (analyst) understanding the problem and designing the use-cases, and user processes, a designer where you develop the object model and user-interaction protocols, and a programmer where you do the java development, an innovator and communicator of new ideas where you find creative things that no one else thought about before. And you present your ideas clearly and completely.

The project focus will be on the construction and operations of a digital platform in some application domain. The system will sever as communication system for specialists and administrative operations. The entities will be enterprises, organizations, departments, administrators, supplying companies, and most importantly individual persons that is subject of the work. Such connectivity opens the possibility for many useful uses that are critical to the safety and well-being of people, effectiveness in delivering quality service, and efficiencies to ensure that the services are affordable. There a number of uses of such an eco-system.

You job is select a multi-party problem that will require the cooperative effort of multiple enterprises and associated organizational units. The objective is to design a system where **the whole is greater than the sum of the parts.** In other words, the collaborative effort of the partnership leads to greater value and benefit that the individual entities operating on their own.