Assignment 1
Introduction to Software Engineering
Due Date: 12th March 2021 11:59 pm

1. Identify which process model/models/combination would be suitable for the given scenario and why,

     Aga Khan Hospital is planning to make a new system to record patient information who are suffering from mental disorders. It also keeps tracks of the treatments they have received, both medicinal and therapy related. Aga Khan wants to deploy this system in its city-wide clinics and can be accessed via laptop on a browser. This is so that it may be accessed and used from sites that do not have secure network connectivity. The reason for this being when the local systems have secure network access, they use patient information in the database, but they can download and use local copies of patient records when they are disconnected. The system is not a complete medical records system and so does not maintain information about other medical conditions. However, it may interact and exchange data with other clinical information systems. This system has two main purposes:

     a. To generate management information that allows health service managers to assess performance against local and government targets.
     b. To provide medical staff of the clinic with timely information to aid in the treatment of patients

2. Identify which process model/models/combination would be suitable for the given scenario and why:

     HBL is shifting from a physical baking form to an online one via the use of a mobile application. Due to the competitive market, they need to launch their app as soon as possible. Since banks perform a variety of tasks for users like transfer of money, bill payment, phone balance etc, the app will have a variety of modules that can be added one by one. However, since a wide variety of users from different backgrounds will be using the app, their input is important, along with a simple design, good quality and good software practices. Since it is a banking app, high quality and testing is a must. After the app has been released and been updated with a certain amount of features, the bank wants to focus more towards improvement of the app.

3. Provide three examples of software projects that could be done with waterfall model and why?

4. Give three advantages and three disadvantages of incremental and agile process models.