

## **CIS 474/503: Software Engineering I**

### **Group Project (20%)**

#### **Problem**

You are a software engineer who currently works for a small software development company. You have to work with your colleagues (2 or 3 colleagues) to develop a software system for your customers. You and your teammates must use Agile Development Methodology such as Scrum. To facilitate Agile Development Method, you can use Jira or Microsoft Excel. To control the versions of source code must use Git/Github.

#### **Component**

This software system must include a GUI or non-GUI user interface (Front-end) and database (Back-end) include SQL or/and NO-SQL database. It could be a desktop application, a web site, Android or iOS application, or Console-based application. You can use any programming language such as C++, C#, Java, Python, HTML, Swift, and so on.

#### **Deliverable**

The team project consists of an oral presentation with PowerPoints (20%), a complete software system including source code (40%), testing results (10%), use of Jira or Microsoft Excel for Agile development (10%), use of Git/Github for version control (10%), and a written report (10%). The written report must include purpose of the project, software requirements document, documentations including weekly status report and system design (UML diagrams). The oral presentation will be assessed not only by the instructor, but also other students. Each member of a team will be assessed by teammates as well. A final written report must be a .pdf file and be submitted via Schoology by 11:59PM December 4th. The oral presentation is also on December 4<sup>th</sup> during regular class time.