**Gabriel Yeager**

**SYSE 5310**

**Mid Term Project**

Describe your role.

I am the software development lead. I direct the efforts of a small team of developers toward the completion of contract deliverables

Describe the project.

The project is the modernization of a legacy banking/finacial code base. The objective will be to update existing software systems to support newer technologies and capabilities. Initially we will surround the existing code base with unit tests and documenting code functionality. Future objectives will include refactoring the code, splitting the code into modules, and making the modules into suitable candidates for contanerization.

Factors leading into the decisions to pursue this project – why was it begun?

The legacy code base is several decades old. The design of the system did not follow modern development practices. The system is tightly coupled and requires extensive knowledge of the interconnected components and how they interact. Relitively small changes to the code base are extremely difficult and expensive to implement because of the tight coupling. Comparable changes would be simple in a system that was designed modularly with maintainability in mind. It uses many older technologies that are outdated or abandoned because they were difficult to maintain and nearly impossible to debug. In some cases the system uses technologies that require exorbanant license costs. Thus, modernizing the system will reduce development costs in the future.

Another factor motivating the project is the desire to add functionality. The customer wants to integrate the system with other systems to enhance capabilities.

If there is an active Risk Management Program, describe it.

The project risk management program is executed by sever risk management professionals, project managers, and product owners. It identifies, analyzes, mitigates, and monitors risks, issues, and opportunities. The program addresses not only risks, but issues and opportunities as well to ensure the project meets cost, schdule and performance goals. To achieve this, the risk management program evaluates technical events, programmatic events, and business events to reveal what can go wrong, what has gone wrong, and what can be improved. The program manager is ultimately responsible for implementing an effective risk management program. Assisting the program manager is a working group of risk management specialists, system engineers, and the product/risk owners.

The project is currently in the planning risk processes phase. Risks are being identified and analysed to determine the impact they might have on the outcome of the project. A plan to mitigate and respond to the risks is being formulated. The plan will necessarily involve the support of other organizations whose performance will change the risk profiles and; therefore, the impact they may have on the outcome of the project.

What are the Risk Management Program’s strengths/weaknesses?

What course concepts are implemented in your project? (Use concepts learned in this course, and reference the course texts. Citing of text pages encouraged.)

Assuming this program is in-process, do you predict a favorable outcome and why?