**Risk Management Plan**

**R.A.D.U - REQUIREMENTS AND DESIGN UTILITY**

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**2019**

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# Introduction

As organizations begin new projects they begin operating in an area of uncertainty that comes along with developing new and unique products or services. By doing so, these organizations take chances which results in risk playing a significant part in any project. The purpose of the risk management plan is to establish the framework in which the project team will identify risks and develop strategies to mitigate or avoid those risks. However, before risks can be identified and managed, there are preliminary project elements which must be completed. These elements are outlined in the risk management approach.

This project is considered a medium risk project as it has an overall risk score of 24 on a scale from 0 to 100. The project risk score is the average of the risk scores of the most significant risks to this project. A risk score below 16 is low risk project, a score between 16 and 45 is a medium risk project and a score above 45 is a high risk project.

Before risk management begins it is imperative that a foundation is established for providing structured project information, thus, the following project elements were completed and defined prior to developing this Risk Management Plan:

* Define work scope, schedule, resources, and cost elements
  + Develop project WBS/WBS dictionary
  + Develop master schedule and detailed schedules
  + Estimate project cost and finalize budget
  + Identify required and available resources
  + Establish performance measurement metrics
* Define minimum and maximum baseline thresholds
  + Schedule
  + Resources
  + Cost
* Baseline reporting requirements
  + Format
  + Frequency of distribution
  + Distribution list
* Define Risk Management Roles and Responsibilities
  + Project Manager chairs the risk assessment meetings
  + Project team participates in risk assessment meetings and members serve as meeting recorder and timekeeper
  + Key stakeholders participate in risk assessment meetings
  + Project Sponsor may participate in risk assessment meetings

# Top Three Risks

The top three high probability and high impact risks to this project are:

* + - * **Not enough time to coordinate the students from the 1319 Department team**
      * **Application not completed at the end of the Internship**
      * **C# Programming problems that cannot be resolved by the Coordinators.**

# Risk Management Approach

The approach we have taken to manage risks for this project included a methodical process by which the project team identified, scored, and ranked the various risks. The most likely and highest impact risks were added to the project schedule to ensure that the assigned risk managers take the necessary steps to implement the mitigation response at the appropriate time during the schedule. Risk managers will provide status updates on their assigned risks in the bi-weekly project team meetings, but only when the meetings include their risk’s planned timeframe. Upon the completion of the project, during the closing process, the project manager will analyse each risk as well as the risk management process. Based on this analysis, the project manager will identify any improvements that can be made to the risk management process for future projects. These improvements will be captured as part of the lessons learned knowledge base.

# Risk Identification

For this project, risk identification was conducted in the initial project risk assessment meeting. The method used by the project team to identify risks was the Crawford Slip method. The project manager chaired the risk assessment meeting and distributed notepads to each member of the team and allowed 10 minutes for all team members to record as many risks as possible.

**Risk Assessment Meeting**

A risk assessment meeting was held with key team members and stakeholders. The risks identified during this meeting were added to the project plan and Risk Register.

# Risk Qualification and Prioritization

In order to determine the severity of the risks identified by the team, a probability and impact factor was assigned to each risk. This process allowed the project manager to prioritize risks based upon the effect they may have on the project. The project manager utilized a probability-impact matrix to facilitate the team in moving each risk to the appropriate place on the chart.

Once the risks were assigned a probability and impact and placed in the appropriate position on the chart, the recorder captured the finished product and the project manager moved the process on to the next step: risk mitigation/avoidance planning.

# Risk Mitigation and Avoidance

The project manager has led the project team in developing responses to each identified risk. As more risks are identified, they will be qualified and the team will develop avoidance and mitigation strategies. These risks will also be added to the Risk Register and the project plan to ensure they are monitored at the appropriate times and are responded to accordingly.

The risks for this project will be managed and controlled within the constraints of time, scope, and cost. All identified risks will be evaluated in order to determine how they affect this triple constraint. The project manager, with the assistance of the project team, will determine the best way to respond to each risk to ensure compliance with these constraints.

In extreme cases it may be necessary to allow flexibility to one of the project’s constraints. Only one of the constraints for this project allows for flexibility as a last resort. If necessary, funding may be added to the project to allow for more resources in order to meet the time (schedule) and scope constraints. Time and scope are firm constraints and allow for no flexibility. Again, the cost constraint is flexible only in extreme cases where no other risk avoidance or mitigation strategy will work.

# Risk Register

The Risk Register for this project is a log of all identified risks, their probability and impact to the project, the category they belong to, mitigation strategy, and when the risk will occur. The register was created through the initial project risk management meeting led by the project manager. During this meeting, the project team identified and categorized each risk. Additionally, the team assigned each risk a score based on the probability of it occurring and the impact it could potentially have. The Risk Register also contains the mitigation strategy for each risk as well as when the risk is likely to occur.

Based on the identified risks and timeframes in the risk register, each risk has been added to the project plan. At the appropriate time in the plan—prior to when the risk is most likely to occur—the project manager will assign a risk manager to ensure adherence to the agreed upon mitigation strategy. The each risk manager will provide the status of their assigned risk at the bi-weekly project team meeting for their risk’s planned timeframe.

The Risk Register will be maintained as an appendix to this Risk Management Plan.

# Sponsor Acceptance

Approved by the Project Sponsor:

Date:

Bogdan Cunita

Project Manager