Learning Journal – 2

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Course: Software Project Management (SOEN 6841)

Journal URL: Drive

Dates Rage of activities: 23rd September 2024 to 4th October 2024

Date of the journal: 5th October 2024

Key Concepts Learned:	**Application in Real Projects:**	**Peer Interactions :**	**Challenges Faced:**	**Personal development activities:**	**Goals for the Next Week:**
Risk Management : Understanding of how to identify the risk, risk analysis and risk mitigation to prevent project from failing. Also learned about risk management strategies like, acceptance, avoidance, transference and mitigation.	Risk management is a crucial part of real-time, high impact projects. Risk management could help in prioritizing the high impact risk and allow us to take necessary steps for avoidance or mitigation.	We discussed about the different risk management strategies in class project group and talked about the feasibility of each method based on the size of our project. We also discussed about pros and cons of different strategies specifically risk avoidance and mitigation. It improved my	Performing a risk analysis was a struggling part for me. Understanding exact probability of risk and its impact demands experience across different types of projects.	Learned about the spiral SDLC method used for risk management Also learning about Agile risk management helped me in better understanding of class work.	My plan for the next week is to practice more on practical use of risk management methodologies-s. Along with my class project group we will try to apply different risk analysis strategies and will compare them to get better understanding.

		understandin-g on how to choose appropriate strategy based on size and constraints of the project.			
Effort & Cost Estimation: Learned about different cost estimation techniques like Estimation by analogy, expert judgement and COCOMO which helps in basic prediction of resources, efforts and cost needed for the project to reach it's end goal.	COCOMO and expert judgement can help in precise estimation of timeline and resources in the projects. We also theoretically applied COCOMO model on out class project for timeline and resource estimation based on the skill level of individual team members.	We discussed about how a hybrid method involving both expert judgement and COCOMO can make cost estimation more precise.	Cost estimation using Expert judgement was a difficult part for me and my team because none of us qualifies in-terms of giving expert judgement on the project, but still we tried our best for it.	Learned about some cons of expert judgement system, that sometimes experts might not know the skill level of individual developers and may give estimation based on their own skill level which might underestimate the timeline and cost.	Plans for the next week is to compare our cost estimation with other groups with similar project which will help us in better understanding of how different teams uses different methods and also about the estimation errors in different models.
Configuration Management: Configuration management provides tracking and control over the software projects. Key	Majority of the team managed projects takes the advantage of configuration management tools to prevent	We discussed about different configuration management tools available in the market and also		Learned about configuration management tools like git, Jenkins and Ansible.	Goal for the next week is to brainstorm about different configuration management tools that we can use for the class project by assuming it as practical

functions of a configuration management system are configuration identification, control, status accounting, and auditing. CM ensures the integrity of the project.	scope creep and uncontrolled changes into the code versions.	about which one to choose based on specific need of the project.			implementation. Also a short group discussion on use of Delphi method.