**Learning Journal Template**

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**Course:** Software Project Management (SOEN 6841)

**Journal URL:** <https://github.com/Arik39/SOEN6841_SPM>

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

**Date of the journal:** 5th October 2024

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| **Key Concepts Learned:** | **Application in Real Projects:** | **Peer Interactions:** | **Challenges Faced:** | **Personal development activities:** | **Goals for the Next Week:** |
| **Efforts & Cost Estimation:** Learned various estimation techniques, including experience-based and algorithmic models, COCOMO. Also practiced estimating the cost and time needed to carry out the project. FPA was useful in measuring functionality of software. | Estimation techniques like FPA contribute to planning resources for future projects by making it easier to break down tasks and assign realistic deadlines​.  Therefore, risk management strategies will lead us to avoid common project risks and apply mitigation strategies where necessary for smoother project execution. | Discussions with teammates helped clarify how Delphi Method works for consensus-based estimates. We also shared insights on tackling risk, especially around using risk mitigation effectively​. | Struggled a bit with the COCOMO equations and applying them to large projects since the complication of the model was a bit hard to grasp.  Setting up a powerful configuration management system is tricky, particularly in a live environment with lots of ongoing change | **Activity:** Explored case studies on risk management and strategies adopted by different companies in handling high-risk projects, mitigation, and transference included. Tried configuration management tools, such as GitLab and Jenkins, in order to enhance version control processes and handle multiple software versions with ease. **Reflection:**  These case studies have been quite helpful in providing a better understanding of the practical challenges of risk management, especially for high-stake projects. It gave me a clearer approach on when to mitigate or transfer risks. Using real tools like GitLab made me more confident in handling configuration changes, especially in complex projects with frequent updates | Practice the application of risk response strategies, putting more emphasis on enhancing my skills in mitigation and avoidance techniques in future projects.  Understand advanced features of the Configuration Management tools to implement enhanced version control and auditing processes for future software releases. |
| **Risk Management:** Identification of the risk to be covered, analysis, and possible ways of management through mitigation, avoidance, and transference. Early risk assessment was emphasized in order to avoid back-end problems. |
| **Configuration Management:** This chapter highlighted how to manage software changes, ensuring version control and maintaining system integrity throughout the project​. |