**Learning Journal 2**

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**Course:** SOEN 6841- SOFTWARE PROJECT MANAGEMENT

**Journal URL:** <https://github.com/susmitha810/SOEN6841>

**Dates Rage of activities:** 16th September 2024 to 4th October 2024

**Date of the journal:** 27th September 2024 and 4th 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:** |
| • Effort estimation techniques: **Estimation by Analogy, COCOMO**  • Importance of adjusting estimates with changing requirements.  • Challenges of **estimating effort** in software development. | • Estimation by Analogy is useful when historical data from similar projects is available.  • COCOMO can be used to estimate project costs employing **lines of code** and other project characteristics. | • Discussed about the benefits and drawbacks of different **estimation methods**.  • Shared ideas to enhance estimate accuracy and the importance of **frequent revisions**. | • Challenges in classifying projects for **Function Point Analysis** (FPA) and accurately determining software functionalities. • Hard to estimate the effort for projects with **unclear requirements**. | • Viewed videos on Udemy addressing effort **estimation methods**. • Read articles that highlight the application of analogy-based **estimation techniques** and **COCOMO** in real-world scenarios. | • Analyze few case studies on Effort estimation techniques.  • Explore real-world case studies on Function Point Analysis (FPA). |
| • Gained an understanding of **risk identification**, assessment, prioritization, and response strategies such as mitigation, avoidance, and transference, while emphasizing contingency planning for high-priority risks.  • Learned the components of configuration management systems, highlighting how they reduce confusion and maintain project integrity. | • A systematic **risk management plan** and early risk identification help to ensure project stability and reduce future problems. • By facilitating efficient **version control** and change tracking, a **configuration management system** helps to avoid scope creep. | • Took part in conversations regarding strategies and experiences with risk management in real life. • Shared insights with colleagues regarding the difficulties and ideal procedures for setting up configuration management systems and maintaining version control. | •Encountered difficulties evaluating risks in new technology projects because of a high level of uncertainty. • Found it difficult to identify each component required for efficient configuration management. | • Examined case studies to find best practices for risk management in IT projects. • Read articles about the value of configuration management tools and techniques in software development.  • I explored case studies on how configuration management systems can maintain project integrity by facilitating efficient version control. | • Create a detailed risk management plan for a hypothetical project.  • Research specific configuration management tools applicable to real-world projects |

**Final Reflections:**

**Overall Course Impact:**

* My understanding of effort estimation, risk management, and configuration management has increased as a result of this course.
* Having learned these ideas, I feel more equipped to put them into practice and complete projects successfully.

**Application in Professional Life:**

* The acquired knowledge will be essential for proactive risk management and accurate project effort estimation.
* Software quality and integrity can be guaranteed by implementing effective configuration management procedures.

**Peer Collaboration Insights:**

* Working with peers provided useful insights into putting theory into practice.
* Diverse viewpoints on how to handle common project challenges were revealed during discussions.

**Personal Growth:**

* Increased adaptability by learning and applying new tools and methods efficiently.
* Enhanced risk management skills through case study analysis and proactive strategies.
* Improved analytical and problem-solving abilities in project management.

**Hours Spent Weekly To study:** 3 Hours per week

**References for Personal Development Activities:**

* Syona Gupta, Geeta Sikka, and Harsh Verma. 2011. Recent methods for software effort estimation by analogy. SIGSOFT Softw. Eng. Notes 36, 4 (July 2011), 1–5. https://doi.org/10.1145/1988997.1989016
* https://mark-bridges.medium.com/50-case-studies-exploring-risk-management-across-various-organizations-situations-32c1d63374e0
* Karlovs-Karlovskis, Uldis. (2012). Importance of Configuration Management.