**Learning Journal**

**Student Name:** Rohan Saranjitsingh Dhiman

**Course:** SOEN 6841Software Project Management

**Journal URL:** <https://github.com/rohandhiman03/SOEN-6841-SPM/tree/main/Learning%20Journal>

**Week 1:** Jan 18 – Jan 24

**Date:** 24 January 2024

**Key Concepts Learned:**

Initially the first week's session introduced the fundamentals of software project management. Key concepts included project initiation, defining project charter, establishing project scope, outlining project objectives, and initial budgeting. I also explored the importance of project division for accurate project size estimation. Additionally, for the next week’s lecture I further delved into software project effort and cost estimation techniques, introducing Function Point Analysis, Wide Band Delphi, and COCOMO models. I also looked into risk management strategies, emphasizing the importance of identifying, assessing, and mitigating potential risks in software projects.

**Application in Real Projects:**

Applying these concepts in real-world projects would involve detailed planning and clear definition of project scope and objectives. Challenges might include accurately estimating project size and costs, ensuring project objectives align with organizational goals, and effectively managing resources. Incorporating the cost and effort estimation models into real-world projects will enhance precision in planning and resource allocation. Understanding and managing risks effectively can significantly increase the chances of project success. However, adapting these models to specific project contexts and maintaining flexibility in estimates are key challenges.

**Peer Interactions:**

Discussions with peers were insightful, particularly regarding the variability in project initiation processes across different organizations.

**Challenges Faced:**

The main challenge was understanding the complexities of project cost estimation. I found the concept of project division particularly challenging and plan to seek further clarification. Also grasping the complexity of different estimation models was challenging.

**Personal development activities:**

Went through a video titled Project Management Simplified: Learn The Fundamentals of PMI's Framework to understand all the fundamentals. https://www.youtube.com/watch?v=ZKOL-rZ79gs

**Goals for the Next Week:**

I aim to delve deeper into budgeting and cost estimation techniques. I also plan to collaborate more with peers on project management simulations to apply theoretical knowledge in the project. I also plan to explore case studies related to risk management in software projects to better understand its application in real-world scenarios.