

Learning Journal -1

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Course: SOEN 6841 Software Project Management

Journal URL: <https://github.com/mmobbu/SPM>

Dates Range of activities: 16 January 2025 to 23 January 2025

Date of the journal: 27 January 2025

Key Concepts Learned:	Application in Real Projects:	Peer Interactions:	Challenges Faced:	Personal development activities:	Goals for the Next Week:
1. Differences between jobs, projects, and exploratory tasks. 2. Characteristics of projects: Non-routine, planned, resource constrained and customer-focused. 3. Roles in a software project: Leader, Manager, Scrum Master, and Project Manager. 4. Defining boundaries and objectives through Project Charters/scopes. 5. SMART Objectives: Specific, Measurable, Relevant and Time bound. 6. Techniques for Initial budget, initial cost estimation and effort estimation. 7. Significance of project schedules at	1.SMART objectives learnt here would be adopted for clearly defining the project objectives consistent with business objectives related to software development projects. 2.Initial project scheduling and effort estimation will enable the proper planning of the tasks.	1.Shared knowledge regarding defining SMART objectives and discussed the real examples of Project Charter in the study group session.	1.Understanding the effort estimation and cost estimation techniques, specifically applied to software projects, was not easy and requires further practice. 2.Difficulty in distinguishing the exact roles and responsibilities of a Scrum Master versus a Project Manager in practical settings.	1.Reviewed additional resources on SMART objectives and project charters to better understand their real-world applications. 2.Explored different project management tools and viewed videos to gain a project manager's perspective.	1.Explain effort estimation methods in depth, including techniques of project division. 2.Case studies on project charter and scope, relating to their practical applications. 3.Peer-led session for discussions on issues faced in software project management.

the beginning and baseline schedules.					
<p>1. Overview of effort estimation techniques, including Function Point Analysis, COCOMO, Delphi, Estimation by Analogy, and Estimation by Expert Judgement.</p> <p>2. Learned to identify risks including technical, legal, economic, and organizational issues.</p> <p>3. Identification, analysis, and prioritization are used to assess risk.</p> <p>4. Different risk response strategies like Acceptance, Avoidance, Transference, and mitigation.</p>	<p>1. Analogy-based approaches enable estimation concerning development time on projects like an e-commerce website, by taking previous similar projects as a reference base.</p> <p>2. Applying risk mitigation strategies to minimize delays and ensure quality.</p>	<p>1. Discussed with peers various advantages and disadvantages of COCOMO II and Function Point Analysis techniques, which helped in a better understanding of how these techniques could be applied to real-world scenarios.</p> <p>2. Compared qualitative and quantitative approaches with peers to enhance understanding of evaluating risks.</p>	<p>1. Found it challenging to understand the practical application of the Function Point Analysis method, particularly in classifying function types.</p> <p>2. Sometimes, this risk prioritizing, especially non-technical ones, has to be performed based on subjective decision making.</p>	<p>1. Practiced case studies with regard to effort estimation techniques by considering some hypothetical projects in order to consolidate understanding with key concepts.</p> <p>2. Studied articles on best practices for prioritizing and managing project risks effectively.</p>	<p>1. Refined techniques for resource estimation in projects related to machine learning and large datasets.</p> <p>2. Improved the understanding of risk assessment models, especially quantitative analysis in prioritizing high-impact risks.</p>