

Learning Journal 1 : Chapter 1, 2 and 3

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Course: Software Project Management [SOEN 6841]

Journal URL: https://github.com/rikinchauhan01/Software_Project_Management_Course/

Dates Range of activities: 9-September-2024 to 21-September-2024

Date of the journal: 21-September-2024

Key Concepts Learned:	Application in Real Projects:	Peer Interactions:	Challenges Faced:	Personal development activities:	Goals for the Next Week:
<ul style="list-style-type: none">• A short overview of Software Project Management.• Gained knowledge about key project management phases: initiation, planning, monitoring, and closure.• Explored project initiation in depth, including cost estimation and schedule creation.	<p>Case Study: Developing an E-commerce Platform</p> <ul style="list-style-type: none">• Project management principles guide the development team through phases like requirements gathering, design customization, testing, and implementation, while managing resources, time, and budget constraints.• Quality metrics, including code efficiency, testing success, and user satisfaction, ensure high standards throughout the e-commerce platform development.	<ul style="list-style-type: none">• After a productive discussion with a peer who has real-world project management experience from working in India, we compared our work cultures.• With my background as a software developer in India, we exchanged lecture notes, which broadened our skills and improved our teamwork abilities.	<ul style="list-style-type: none">• This week's concepts provided a clear introduction to project management and the steps in the project initiation process.• While practical application would enhance understanding, I expect we'll have the chance to apply these ideas in the upcoming course project.	<ul style="list-style-type: none">• I plan to pursue AWS certification to boost my career.• It will strengthen my technical knowledge of cloud computing and provide project management skills relevant to this course.	<ul style="list-style-type: none">• Next week, I plan to read the upcoming chapters and attempt the exercises independently to enhance my focus during class lectures.• Additionally, I intend to meet with my project teammates, whom I don't know well, to discuss the lectures and share insights on our progress.

Key Concepts Learned:	Application in Real Projects:	Peer Interactions:	Challenges Faced:	Personal development activities:	Goals for the Next Week:
<ul style="list-style-type: none"> • Gained knowledge in cost estimation and risk management. • Studied COCOMO and Delphi methodologies. • To summarize, Project and effort estimation is vital in the design phase, affecting development. Key methods include: Estimation by Analogy, Function Point Analysis (FPA), Delphi Technique, COCOMO 	<ul style="list-style-type: none"> • The software team applies multiple cost estimation techniques to develop a customer relationship management (CRM) system. • They use statistical models and parametric estimation to assess key factors, such as the number of features and team size, ensuring accurate predictions of project timelines and resource requirements. • Effort Estimation: The team uses Analogy and Expert Judgment based on past projects. Function Point Analysis: In design, the team counts five function types to calculate Unadjusted Function Points. Cost Modeling: The team employs COCOMO for cost estimates at various project stages. 	<ul style="list-style-type: none"> • We held a team meeting for our group project, where we had a productive discussion about the project and lecture topics. • After careful analysis, we decided to begin working on the project, with two team members focusing on project initiation and two on market analysis. 	<ul style="list-style-type: none"> • I found this week's concepts easy to grasp, but it would be helpful to have a real-time project showcasing cost estimation techniques. • Additionally, a class activity involving a project description requiring estimation techniques could provide practical insights into the concepts. • This would allow us to compare our estimation methods, assess the margins of error, and discuss ways to minimize them. 	<ul style="list-style-type: none"> • Collaborated with my teammate on market analysis, gaining a thorough understanding of the project and exploring various chatbots. 	<ul style="list-style-type: none"> • Next week, I plan to read the upcoming chapters and attempt the exercises independently to stay more engaged during class. • Additionally, I will focus on the market analysis for my project as the deadline approaches.