

Learning Journal Week 1

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Course: SOEN 6841 - Software Project Management

Journal URL: <https://github.com/mahimrahman/SOEN-6841-Software-Project-Management>

Week 1: Jan 28 – Feb 3

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Key Concepts Learned:

Chapter 3: Software Project Effort and Cost Estimation

A variety of effort estimation techniques including function point analysis, COCOMO, and Wide Band Delphi, were explained for software projects. Based on the project stage and the availability of project data we can decide on an appropriate technique to lower delivery time and cost, as well as how to estimate cost, schedule, and resources for software projects.

Chapter 4: Risk Management

This chapter introduces the idea of software project risks, which are unexpected or unplanned events that can have a negative impact on the project's objectives such as budget, schedule, quality, or scope. It explains how to assess, identify, analyze, prioritize, and mitigate risks.

The process of managing risks, which has five parts, is also covered in this chapter: risk planning, risk identification, risk analysis, risk response, and risk monitoring and control.

Chapter 5: Configuration Management

Configuration management is a supporting process that works alongside development to save, archive, identify, retrieve, and deliver work products and information for the entire project team. Version control, auditing, security, access control, and continuous integration of software builds are all part of configuration management. It should be centralized, dependable, safe, and auditable. Additionally, it needs to work with additional tools like test management, automation, and defect tracking systems. Software projects that involve numerous teams, locations, iterations, and modifications require configuration management. It aids in ensuring the software artifacts' traceability, consistency, and quality.

New Concepts Learnt: Function Point Analysis and Wide Band Delphi for cost estimation. Also, different way to deal with risks and risk mitigation. Learnt about Smoke Test in configuration management and different techniques of configuration management.

Application in Real Projects:

By doing proper cost and budget estimation, we can plan and distribute the resources required for the project, as well as monitor and control project expenses. It also helps to avoid underestimating or overestimating project expenditures, which prevents poor quality, missing deadlines, and customer dissatisfaction. Effective risk management can also assist in recognizing, assessing, and mitigating any

uncertainties or risks that may have an impact on the outcome of the project. Additionally, configuration management will support maintaining the project artifacts' quality, consistency, and traceability. In addition to improving collaboration as well as interaction within the project team, configuration management can help avoid errors, disputes, and reworking.

Peer Interactions:

We already had our first meeting on last Sunday evening (28/01/24) and discussed about our approach about the project and specially deliverable 1. We did split our duties and working on it together.

Challenges Faced:

Finishing 3 chapters in this week was bit challenging while working on all the assignments and project works. Couldn't finish chapter 5 before the classes.

Personal development activities:

Doing personal research on collaborative project management tool.

Goals for the Next Week:

- Meet and have a discussion with project group members upcoming Sunday
- Have few more field interviews for the Market analysis.