**Learning Journal Week 2**

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**Course:** SOEN 6841

**Journal URL:** https://github.com/itshisher/SOEN-6841-learning-journal/tree/main

**Week 2:** January 28 – February 3

**Date:** January 30

**Key Concepts Learned:**

In Chapter 4, it talks about project risks, which are unexpected events that can affect our future plans. There are two types: internal risks handled by the project team and external risks caused by environmental factors. Risks can affect project goals, schedules, quality, budget, resources, and technology. To deal with risks, we need strategies like tracking expenses for budget risks, making time allowances for schedule risks, keeping backups for resource risks, planning for quality, and contacting vendors for technology risks. The chapter also explains the steps for analyzing risks, like creating a list, assigning priorities, and updating it when needed.

Chapter 5 introduces configuration management, a process that works alongside project development. A configuration management system includes information like project name, time stamp, document number, author, document type, and version number and is used by the entire project team, contractors and service providers. It holds documents, builds, and plans for different stages of the project. A good configuration system ensures that the project team can access and manage project work properly and prevent information loss and cyber-attack. Strategies for successfully using a configuration management system include centralized control, secure access, continuous integration, branching for different versions, and having an audit facility and a smoke test for checking.

**Application in Real Projects:**

In a real software development project, risk management strategies are applied to handle risks which can happen throughout the project. The team keeps a list of potential issues, figures out which ones could cause the most trouble, and plans ahead with extra resources. In Chapter 5, the application of configuration management involves constructing a centralized system for version control, ensuring secure access for team members, implementing continuous integration for builds, and utilizing an audit facility to verify any available documents. These practices should be carried out by the project team throughout the project lifecycle.

**Peer Interactions:**

Form WhatsApp group with group members and try to meet for our first project deliverable. Discuss our project topic and see if some of the knowledge learned from the class can be applied to the first deliverable.

**Challenges Faced:**

Challenges for Chapter 4 (Project Risks): Identifying and prioritizing risks accurately since risks can happen anytime throughout the project and risks can be very serious or not so important, establishing effective risk analysis processes requires a lot of experience, and dealing with uncertainties and unforeseen events.

Challenges for Chapter 5 (Configuration Management): Implementing a secure configuration management system and setup access permission is a big work since a project team can have many members with different levels, a good configuration system also contains continuous integration and automated testing, branching, and maintaining an effective audit facility for document verification and build integrity.

**Personal development activities:**

Read chapters 4 and 5 and make summaries for these two chapters. Also did some reviews on pervious chapters.

**Goals for the Next Week:**

Readings for chapter 6 and 7. Make summaries for these two chapters. Need to start our first project. Discuss our project topic and how to initiate it. Also need to split tasks different team members should work on different aspects and combine everything altogether to make a nice deliverable.

Keep watching videos on Python data structure and algorithms and do more leetcode problems.