Learning Journal -2

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Course: SOEN 6841 Software Project Management

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

Dates Rage of activities: 30 January 2025 to 6 February 2025

Date of the journal: 8 February 2025

Key Concepts Learned:	**Application in Real Projects:**	**Peer Interactions:**	**Challenges Faced:**	**Personal development activities:**	**Goals for the Next Week:**
1. **Configuration Management** (CM) manages controlled changes of a system in a structured fashion. 2.Configuration Identification - Establishes Baseline Composition. 3.Configuration Control - Evaluates Requests for Changes and Approvals. 4.Configuration Status Accounting – Reports on Change Information and Records Them. 5.Configuration Auditing – Verifies Conformity to Requirements. 6. Change Control Process, and Impact Analysis play a key role. 7. Importance of Traceability between Requirements,	1.Effective Version Control: Ensuring that developers are indeed working on the correct versions of the software. 2.Risk Reduction: Helps to avoid problems such as missing features, re-occurring defects, and changes not traced. 3.Improved Collaboration: It provides legible document	1. Discussed CM in agile environments by balancing flexibility with structure. 2.How CM helps manage scope creep was discussed, which was an issue at IKIWISE. 3.Gained insight into the role of impact analysis in change management.	1.One of the important problems in understanding CM was the differentiation of configuration control from status accounting as both relate to tracking changes. 2.Configuration control deals with managing the change requests, while status accounting deals with recording the changes and their impact.	1.To develop a deeper understanding of CM, I delved into version control systems, such as Git. 2.I applied the Git branching strategies while simulating all those features of a real-world CM: feature development, bug fixes, and release management. 3.I even went through some case studies of industries regarding failures and successes related to CM to have	1.Understand configuration auditing in depth and its role in compliance. 2.Research automated CM tools such as Jenkins and Puppet to understand how they are applied in the real world. 3.Understand how CM integrates with DevOps practices to achieve continuous integration and deployment. 4.Review case studies on the failure of change control to learn from industry best practices.

Documentation, and Code.	ation of changes made, thus giving accountability.			practical insight.	
1. work on the planning of software projects by knowing their components, inputs, and techniques of planning: top-down and bottom-up. 2. I studied Work Breakdown Structure **WBS**, Scheduling of project, Resources assignment, Critical Path Method -CPM, and **Goldratt's Critical Chain** Method, and also different Project planning models waterfall versus iterative.	1.Project planning is necessary to understand for practical purposes so that scheduling ,budgeting, and resource management can be efficiently carried out. 2.WBS helps in logical structuring of tasks, while CPM helps in finding the dependencies.	1.Understanding task dependencies and scheduling techniques further developed through discussions with peers. 2.In addition, collaborative insights into how different projects display variations in their particular planning strategies have shown a practical perspective on implementation.	1.The estimation of accurate project timelines is difficult because productivity is not proportional to team size. 2. Managing dependencies to avoid delays requires experience and intuitive decision-making.	1.I also searched for some advanced project-scheduling tools and compared the efficiency of each in handling real scenarios. 2. I even went through some case studies related to successful software project planning strategies.	1.Practice creating a detailed Work Breakdown Structure for a case project and analyse its effectiveness. 2. Research advanced scheduling techniques and their application in Agile projects. 3. Get insights into project budgeting and quality assurance planning in software projects.

Time Management: Studied 4 hours per week.

References for Personal Development Activities:

- Kerzner, H. (2017). Project Management: A Systems Approach to Planning, Scheduling, and Controlling (12th ed.).
- Karlovs-Karlovskis, Uldis. (2012). Importance of Configuration Management.