**Learning Journal**

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**Course:** Software Project Management (SOEN 6841)

**Journal URL:** https://github.com/khushaalll/Journal\_SOEN6841

**Week 1:** January 18, 2024- January 24, 2024

**Date:** January 22, 2024

**Key Concepts Learned:**

**Chapter 1**

**Scope of Software Project Management:**

Software project management involves the coordination and oversight of various activities within a software project. This includes managing project teams, suppliers, customers, and daily project tasks.

**Daily Responsibilities of a Software Project Manager:**

A software project manager is responsible for daily tasks related to team management, dealing with suppliers, interacting with customers, and overseeing project tasks.

**Chapter 2**

**Feasibility Study:**

A feasibility study may be conducted to assess the viability of the project, especially if there is uncertainty about its success. If found unfeasible, the project can be abandoned at a lower cost than later stages.

**Phased Approach:**

The concept of splitting the project into phases allows for a structured approach, ensuring that customer requirements are well-defined before proceeding with the actual software product development.

**Application in Real Projects:**

Conducting a thorough analysis to assess the project's viability. Evaluating potential risks and returns.

**Peer Interactions:**

Had a group discussion with my colleagues after the lecture about the amount of work and time we need to give for every project from now onwards.

**Challenges Faced:**

I must admit, distinguishing between jobs, exploration, and projects was trickier than I expected. I plan to review our lecture notes and maybe find some examples to make it stick.

**Personal development activities:**

I took some time to read an article about Agile methodology to get ahead. It's fascinating how it parallels what we learned about flexibility in projects.

**Goals for the Next Week:**

I plan to learn more about different methodologies used while creating software.

**Week 2: 28th Jan 2024 - 3rd Feb 2024**

**Date: 1st Feb 2024**

**Week 2 Reflection - Navigating Software Projects**

The second week started with exploring more into Project management like, understanding how to estimate key project elements has been quite revealing. Predicting the effort, cost, schedule, and resources required is comparable to forecasting the weather – a challenging task. Various techniques, such as seeking advice from experienced individuals and analyzing historical data, are employed to glimpse into the future through numerical predictions.

Effort Estimation, which involves predicting the amount of work for a project, is a intricate process. It encompasses drawing insights from experienced professionals and retrospectively examining past projects for guidance.

Resource Estimation, on the other hand, involves predicting the quantity and types of personnel needed for a project. This can be achieved by consulting experts or systematically breaking down the required skills for different project components, similar to selecting players for different positions in a game.

**Applying It in Real World:**

Having a clear plan and objectives is like having a roadmap. Estimating budgets, especially for software projects is bit challenging.

**Tackling Some Challenges:**

Grasping the distinctions between tasks, exploration, and projects has proven more challenging than initially anticipated. While comprehending these concepts in theory is one thing, the application poses its own set of difficulties. Additionally, tackling the task of estimating effort in software development appears to be a significant challenge. Nevertheless, it's essential to view challenges as opportunities to overcome and conquer.

**Goals for Next Week:**

Planning to start with the project ahead of the week.

**Week 3:** February 4, 2024- February 10, 2024

**Date:** February 3, 2024

**Key Concepts Learned:**

* Configuration management: Managing different versions of work products such as source code to ensure correctness and accessibility.
* Source code builds: Sensitivity of builds to version control, emphasizing the importance of efficient version control to address defects.
* Security mechanisms: Implementing robust security measures to prevent unauthorized access to project information.
* Access control: Balancing security with the need for authorized project team members to access and modify project work products.

**Application in Real Projects:**

* Ensuring version control and collaboration among team members.
* Maintaining the integrity and security of project assets.
* Facilitating archiving, retrieval, and editing of project work products.

**Peer Interactions:**

While finishing up the first phase of the project, my group members and I discussed how important is to understand configuration management in software projects. We realized it’s very hard to implement all these in real life.

**Challenges Faced:**

Throughout the week, one particular challenge I faced was grasping the complexities involved in effectively setting up and handling configuration management systems. In particular, I found myself needing more clarity in several areas, such as the intricacies of version control tools, implementing robust security protocols, and seamlessly integrating with the development workflow

**Goals for the Next Week:**

As I couldn’t attend the second half of the lecture, I am planning to start with chapter 6 and chapter 7 along with getting ready for next phase of project and demo.

**Week 4:** February 11, 2024- February 17, 2024

**Date:** February 17, 2024

**Key Concepts Learned:**

Following are the key points that I got to know about Project Monitoring and Control

Challenges in Monitoring and Controlling Software Projects:

Unclear specifications for work products pose challenges during project execution.

Project teams often rely on assumptions due to lack of clarity, leading to vagueness in managing project work.

Managing work with ambiguity is one of the most difficult problems in software projects, impacting monitoring and control efforts.

Role of EVM in Project Monitoring:

EVM provides a comprehensive framework for monitoring project performance.

It offers performance indicators that enable project managers to assess progress and identify deviations from the plan.

Project dashboards based on EVM metrics facilitate timely decision-making by highlighting areas requiring attention.

Importance of Timely Action:

Timely identification of deviations from the plan is crucial for effective project control.

Project managers must promptly address issues identified through monitoring to prevent them from escalating into larger problems.

Continuous Improvement Approach:

Project monitoring and control should be viewed as iterative processes aimed at continuous improvement.

Regular review and adjustment of project plans and strategies based on monitoring data help optimize project performance.

Integration with Project Management Tools:

Effective utilization of project management tools and software enhances project monitoring and control efforts.

Tools like MS Project, Primavera, and EVM software streamline data collection, analysis, and reporting processes.

**Application in Real Projects:**

Here are some scenarios or setups where Project Monitoring and Control is helpful.

Software Development Projects:

Monitoring coding, testing, and deployment phases to ensure timely delivery of software products.

Controlling project scope by tracking changes in requirements and managing feature creep.

Managing risks such as software bugs, security vulnerabilities, and technology dependencies.

Healthcare Projects:

Monitoring patient care processes to ensure adherence to medical protocols and quality standards.

Controlling healthcare facility budgets by tracking expenses related to staffing, equipment, and supplies.

Managing patient outcomes by tracking treatment progress and implementing corrective measures as necessary.

**Peer Interactions:**

After a productive post-class discussion with my peer, Darshil, we engaged in a lively conversation about project monitoring and control. It was enlightening to reflect on how beneath the surface of seemingly smooth project progress, there lies a complex web of tasks, dependencies, and unforeseen obstacles.

**Challenges Faced:**

As this week we had a project pitching activity, I was very much prepared with my pitch. But just before the pitch, I got a rejection mail from a company I interviewed last week and had high expectations of getting an offer letter. This discouraged me and I was unable to give my pitch. Though after the class I tried giving my speech in front of my friends. This was one of the worst times I have ever faced.

**Goals for next week:**

The mid term exams are near, I want to finish reading all the chapters within the next 3 days so that I have some time to revise and also do the assignments of the other courses.