Learning Journal
Week 2

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Course: SOEN 6841 - Software Project Management

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

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Key Concepts Learned:

Chapter 3: Software Project Effort and Cost Estimation
- ❖ A variety of effort estimation techniques
  - ➢ Function point analysis
  - ➢ COCOMO
  - ➢ Wide Band Delphi

- ❖ Based on the project stage and the availability of project data we can decide on an appropriate technique to lower
  - ➢ Delivery time and cost
  - ➢ Estimate cost
  - ➢ Scheduling
  - ➢ Resources management

Chapter 4: Risk Management
- ❖ Project risks - unexpected or unplanned events that can have a negative impact on the project's objectives such as
  - ➢ Budget
  - ➢ Schedule
  - ➢ Quality
  - ➢ Scope

- ❖ It explains how to do risk
  - ➢ Assessment
  - ➢ Identification
  - ➢ Analysis
  - ➢ Prioritization
  - ➢ Mitigation

- ❖ The process of managing risks, which has five parts:
  - ➢ Risk planning
  - ➢ Risk identification
  - ➢ Risk analysis
  - ➢ Risk response
  - ➢ Risk monitoring and control.

Chapter 5: Configuration Management
- ❖ It is used to save, archive, identify, retrieve, and deliver work products and information for the entire project team.
- ❖ Includes version control, auditing, security, access control, and continuous integration
- ❖ Should be centralized, dependable, safe, and auditable.
- ❖ Needs additional tools like test management, automation, and defect tracking systems.
- ❖ Main goal is software artifacts' traceability, consistency, and quality.
- ❖ Smoke Test

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.

Reflections on Case Study/course work:
Main takeaways from the 5case study that we completed:
- ❖ From the case studies we know how to define the project charter, scope, objectives, and initial size estimation for a software product development project.
- ❖ It also shows how to identify the stakeholders, the project team, and the project organization structure.
- ❖ We saw how to do cost and effort estimation on the project of our SaaS vendor.
- ❖ It shows how to set up and arrange a central configuration management system that can be used by internal, external, and offshore teams at the same time.

Now, if we look at our course structure these are the things, we already finished in 5 lectures (Except for Configuration Management due to lack of time). These case studies gave us a real example how these things really work. Also, when we started working on the project it was bit easier to understand our scenario.

Collaborative Learning:
- ❖ We already had our first meeting on last Sunday evening (28/01/24) and discussed about our approach about the project and especially deliverable 1. We did split our duties and working on it together.
- ❖ 2 of us are working on the Market Analysis which we are doing physically by interviews and surveys and other two are working on the problem identification.
- ❖ We are maintaining common file sharing platforms so that we can track progress and give each other our opinions.

❖ As our project topic is also Collaborative Project management tool, we are really enjoying the work.

Personal development activities:

I am able to understand and apply the concepts learned effectively. However, I need to improve my time management skills to balance my chapter reading and project work. I plan to adjust my study schedule to ensure I complete the chapters before the classes. I actively participate in class discussions and related activities but I want to be more involved in the discussions.

Further Research/Readings:

❖ Read a lot of articles while doing market analysis for the project.
❖ Had the opportunity to know insights of people from different on project management which extended my thinking and learning.

Adjustments to Goals:

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. Planning to finish it before next weeks class and review it afterwards as well.

Goals I fulfilled from previous Week:

- Met and had a discussion with project group members.
- Started working on the market research.

Goals for the Next Week:

- Meet and have another discussion session with project group members upcoming Sunday.
- Have few more field interviews for the Market analysis.
- Focus on my learning process and trying to ensure the timely submission of my learning journal and exercise.
- Do well in the quiz which takes place right before the class starts.