

Learning Journal 3

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Course: SOEN 6841 – Software Project Management

Journal URL: <https://github.com/Avilad0/SOEN6841>

Dates Range of activities: 10 February 2025 – 23 February 2025

Date of the journal: 23 February 2025

Key Concepts Learned:

- During these 2 weeks I learned about Configuration Management (continued from LJ2) and Project Planning. I also discussed with teammates regarding project deliverables and pitch.
- I also revisited through chapter 1 to 6 in course book, slides, lecture notes and applications found via online resources to prepare for the Midterm.
- Project planning consists of project scheduling, project budgeting, manpower planning, communication planning and quality planning.
- Learned two approaches of project scheduling: top down: set period for entire project and then divide time for the respective task. In bottom up: assign time to task and then summation of that time is the time period for the entire project.
- Work Breakdown Structure (WBS): systematic way of breaking down the complete project work into smaller tasks for easier task distribution and parallel working.
- Milestone: endpoint of a process or group of tasks to produce a working checkpoint
- Deliverables: project results delivered to customers
- Critical path: determining the longest path in the project by adding time for activities.
- Monitoring: collecting sufficient data to measure progress
- Control: ensuring that the project delivers including all resources are working according as per planned time period.
- Resource utilization: measure number of hours of work assigned to a resource on projects and the idle hours of the resource.

Application in Real Projects:

- We can consider the development of system to enhance armies to use medical equipment at time of emergency and crisis at time of war (is a real-time project). All the medical equipment should be scanned to keep more items in stock which can help to save life of people. This can be done through a inventory management software with alert system for low available equipments.
- We can consider following Project Planning and Project Monitoring and Control terminology and understandings to apply on a project:
 - All the bigger tasks should be divided as per WBS for systematic work on task.

- All the planning of budget, resources, quality assurance, communication should be done before the starting the project to avoid the confusion and monitoring the activities of project task.
- Milestone meeting should be done to keep in check with customer requirements and satisfaction.

Peer Interactions:

- Discussed with peers for the pitch with detailed explanation of our project and practiced our setup for presenting.
- Also discussed and finalized things for project delivery 2 with teammates and started preparing the document for it.

Challenges Faced:

- Main challenge faced was preparing for exams as lot of concepts has various dependencies and while learning about those it kind of mixed up. Like Inputs and Output in different type of processes for management etc.
- For the project, a lot of information was gathered which felt overwhelming and took a lot of time and discussions to finalize the things.

Personal development activities:

- I searched about different project artifacts of real-time project for topic in configuration management and project planning and also for previous topics for mid-term exam which helped be to understand the concept more accurately.
- I read through some case studies for project management and found new ideas apart from the course textbook.

Goals for the Next Weeks:

- I will learn about Chapter 7 and 8 and related case studies in class and self study.
- I will be preparing document for the project delivery 2 with my team-mates and delivering project pitch.