Learning Journal 3

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Course: SOEN 6841

Journal URL: https://github.com/pratim-mandal/SOEN6841

Dates Range of activities: 30th January 2025

Date of the journal: 23rd February 2025

Key Concepts Learned:

- Software projects are guaranteed to have regulated and documented modifications thanks to configuration management, or CM.
- CM avoids quality problems, timetable slippages, and project chaos.
- Software Project Planning is a continuous process from conception to delivery.
- The Work Breakdown Structure (WBS) facilitates the methodical division of project tasks.
- Both top-down and bottom-up planning strategies are used in project scheduling.
- The Critical Path Method (CPM) finds the longest dependent task sequence.
- Change control procedures provide traceability and stop unauthorized changes.
- Effective information sharing between stakeholders is ensured by communication planning.

Applications in Real Projects:

- CM can be used to track changes, manage software versions, and minimize rework.
- Implementing WBS to allocate tasks efficiently and track dependencies.
- Applying CPM to identify bottlenecks and optimize project schedules.
- Enforcing formal change control processes to maintain software integrity.
- Supplier management planning for outsourcing and quality assurance.
- Budgeting techniques to prevent cost overruns in software projects.

Peer Interactions:

- Discussions on project management best practices and lessons learned.
- Collaborative problem-solving for scheduling conflicts and resource allocation.
- Reviewing each other's WBS and milestone planning for improvements.
- Joint brainstorming on risk mitigation strategies in project execution.
- Team coordination in refining change control procedures.

Challenges Faced:

- Difficulty in estimating task durations and dependencies accurately.
- Aligning software versions and preventing rework due to configuration errors.
- Ensuring supplier-delivered components meet in-house quality standards.

Personal Development Activities:

- Practicing software version control techniques in real-world scenarios.
- Exploring project scheduling tools like Gantt charts and activity networks.
- Enhancing communication skills for effective stakeholder management.
- Learning about budgeting strategies to improve financial planning skills.

Goals for the Next Week:

- Implement a small-scale configuration management system for practice.
- Develop a strategy for managing scope creep in a project scenario.
- Experiment with different communication tools for project coordination.