Learning Journal 4

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Course: Software Project Management (SOEN 6841)

Journal URL: https://github.com/parikhalay/Software-Project-Management

Dates Rage of activities: 4th November 2024 to 8th November 2024

Date of the journal: 9th November 2024

Key Concepts Learned:

Project Closure :

- Finalization and review of project deliverables.
- Importance of source code version control.
- Data filtration and archiving of project metrics.
- Documenting lessons learned for future improvements.

Software Lifecycle Management :

- Overview of software engineering and its impact on projects.
- Understanding SDLC phases: requirements, design, construction, testing.
- Lifecycle models: Waterfall (linear) vs. Iterative (flexible, adaptive).
- Work products and deliverables at different development stages.
- QA practices and quality gates for ensuring software quality.
- Managing rework and adapting to changes using iterative models.

Applications in Real time projects:

- Ensuring completeness of deliverables and meeting client expectations.
- Effective use of version control systems like Git.
- Choosing the appropriate lifecycle model (Waterfall for fixed requirements, Iterative for dynamic needs).
- Structuring projects with defined SDLC phases.
- Implementing quality gates for high-stakes industries.
- Using iterative models for projects involving new or changing technology to manage rework efficiently.

Peer Interactions:

I engaged in a debate on choosing between the Waterfall and iterative models, highlighting the benefits of iterative models for dynamic tech projects.

I discussed with my classmates on how we can implement quality gates and incorporate automated testing to enhance QA practices.

I had a conversation with the professor on how to balance quick iterations with project timelines by prioritizing features into essential and non-essential categories.

Challenges Faced:

Complexity of Processes: Understanding the step-by-step approach for managing final deliverables and ensuring all project outputs align with client expectations.

Model Comparison: Fully understanding the nuanced differences between the Waterfall and iterative models and when to apply each in different project scenarios.

Rework Management: Adapting theoretical concepts of handling rework to real-world project settings, especially when shifting from Waterfall to iterative models.

Personal Development Activities:

- I applied the concepts by simulating real project scenarios to compare the use of Waterfall and iterative models.
- Used project management and QA tools (e.g., JIRA, automated testing frameworks) to explore quality gates and practice risk management.
- Conducted self-assessments after studying case studies to improve the documentation process for lessons learned.

Goals for the Next Week:

To prepare for the Quiz and go through the book to read Chapters 8 and 9.
Moreover, to attend group meetings for project presentation discussions with Teaching Assistant and to prepare for the final exam.