Learning Journal Template

Student Name: Prachi Kalpeshbhai Patel - 40291762

Course: SOEN 6841 – Software Project Management

Journal URL: https://github.com/prachipatel488/SOEN6841-SPM-Fall2024

Dates Rage of activities: 17 September 2024 – 30 September 2024 (Chapter 4 & 5)

Date of the journal: 3 October 2024

Key Concepts Learned:

- During these 2 weeks we have learned about Risk Management and Configuration Management in project management.
- Importance of Risk Management: risk like resource unavailability, service breakdown problem, technology obsolescence, wrong selection of project tools and can hamper project progress
- Learned basic definition like Risk: combinations of probabilities of an event and its negative consequences
- Risk categories: Different types of risk like technical risk, legal risk, organizational risk, tool risk, requirement risk, estimation risk.
- Risk assessment: Can be performed at the beginning of the project development and reassessed at the beginning of iteration
    - Risk Identification: Identify risks related to the overall project
    - Risk analysis: likelihood of occurrence, impact of project product and business of each risk item
    - Risk prioritization: need to set priorities in order to determine where to focus risk mitigation efforts
- There are types of strategies in risk planning in software project management
    - Acceptance: project has decided not to change the project plan to deal with a risk.
    - Avoidance: changing the project plan to eliminate the risk of the condition to protect the project goals and objectives from its impact.
    - Risk Transference: It involves shifting the consequence of a risk to a third party, together with ownership of the risk response.
    - Mitigation: It reduces the probability and/or consequences of an adverse risk to an acceptable level.
- Risk Reduction Leverage: is a ratio of reduction in risk exposure over the cost of reduction.
- Configuration Management is the process of controlling and documenting change to system.
- Benefits of CM: reduce confusion, maintain product integrity, reduce life cycle costs etc

- Functions of CM
    - Configuration Identification: to define baseline components
    - Configuration Control: provide mechanism for all changes throughout cycle
    - Configuration Status Accounting: mechanism for maintaining record of evolution
    - Configuration Auditing: mechanism for determining degree to current status

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.
- We can consider following risk for the system:
    - Technical risk: Risk of security vulnerabilities, risk of service outage
    - Operational risk: Risk of overestimating market demand
    - Compliance risk: Risk of Non- Compliance with Data Protection Law
- Configuration Management: as per user feedback, frequent update can be done using CM template of change request or impact analysis or bug report
    - Challenge: CM does not overhaul the management process
    - Benefit: Reliable and good quality of application to meet user friendly expectations.

Peer Interactions:

- Had a brief discussion with teammates for the project delivery and preparing documentation of submission.
- Discussed with peers for the project pitch with detailed structure of our project.

Challenges Faced:

- Had difficulties during the project submission, we were facing issue while comparing the competitor with our current code review system so after every long discussion we came up with a common feature to compare with.
- Had difficulties in Function of Configuration Management. I will try to investigate example to solidify my understanding of four key function using textbook and lecture notes.

Personal development activities:

- I searched about different project artifacts of real-time project for topic in risk management and configuration management for in-class activity which helped be to understand the concept more accurately.
- I tired to search some real-time projects about how to report an impact analysis of system.

Goals for the Next Week:

- I will learn about Chapter 6 and related case studies in class
- I will be preparing for the midterm exams from lecture notes and textbook chapters 1-6.