Learning Journal 2

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Key Concepts Learned:

- During these 2 weeks we have learned about Risk Management and Configuration Management. We also did the topic analysis poster presentation and meeting with the TA for project updates.
- Importance of Risk Management: risk like resource unavailability, outdated technology, wrong selection of project tools and service downtime can hamper project progress.
- 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. The main steps involve Risk Identification, Risk analysis (likelihood and impact) and Risk prioritization (determine where to focus risk mitigation efforts).
- Different strategies for risk planning in software project management:
    - Risk Acceptance: manager has decided not to change the project plan to deal with a risk.
    - Risk Avoidance: changing the project plan to eliminate the risk associated to the project goals and objectives.
    - Risk Transference: It involves shifting the consequence of a risk to a third party, together with ownership of the risk response.
    - Risk Mitigation: Used to reduce the probability and impact of an adverse risk to an acceptable level.
- Risk Reduction Leverage: is the ratio of reduction in risk exposure over the cost of reduction.
- Configuration Management is the process of controlling and documenting changes to project and system.
- Benefits of CM: reduces confusion, maintain product integrity and accountability, 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.

- Topic Analysis: Should You Under-Promise or Over-Deliver. Here I worked with my teammate to research on the topic. What are the pros and cons of both of them, in terms of trust building, building brand loyalty, employee burnout, resource planning, brand buzz etc. We found real-word examples for these like PlayStation-5 free game upgrades, Metaverse failure, Cyberpunk 2077's bugs and removal from store and Xbox Game Pass success.

Application in Real Projects:

- For risk management, we can consider a system to enhance armies to use medical equipment at time of emergency and crisis in war. All the medical equipment should be scanned to keep more items in stock which can help to save lives.
- 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 updates 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 discussion with teammates for the project related to next project submission along with overall project design and brainstormed for innovative ideas.
- Discussed with peers for the project pitch and how to deliver an engaging pitch. Cleared doubts with TA during weekly project meetings.

Challenges Faced:

- Had difficulties during the project deliverable 1. we were facing issue while comparing the competitor with our idea so after every long discussion we came up with a common feature to compare with.
- Also we all had very different ideas for our project and discussed in which direction should our project be, AI and user-interaction based or using current IOT systems to automate.

Personal development activities:

- I searched about different project artifacts of real-time project for topic in risk management and configuration management to study about the topics.
- I tried to search some real-time projects examples about how a report of any system failure or issues is processed with impact analysis and solved afterwards.

Goals for the Next Weeks:

- I will learn and research more about my project topic to prepare for project pitch.
- I will be preparing for the midterm exams from lecture notes and textbook chapters 1-6.