Learning Journal 2

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Course: SOEN 6841 Software Project Management

Journal URL: https://github.com/Muqaddaspreet/SPM_Journals.git

Dates Rage of activities: 21th September 2024 to 3rd October 2024

Date of the journal: 3rd October 2024

Week 3

Key Concepts Learned:

- Risk is the combination of the probability of an event and its negative consequences.
- Risk can be identified by pinpointing potential risks related to the project, product, or business, resulting in a collection of risk items for evaluation.
- Risk Assessment, involving Risk Analysis, i.e. assessing the likelihood and impact of identified risks, and Risk Prioritization, i.e. establishing priorities based on likelihood and impact.
- Risk Control involving Risk Planning and Risk Response Strategies such as Acceptance, Avoidance, Transference, and Mitigation.
- Comparing Risk in Software Development Models with the Waterfall model where risks are higher due to late product revelation.

Application in Real Projects:

- Risk management concepts are applicable to our healthcare project on **Optimizing Patient-Doctor Appointment Scheduling Using Machine Learning**:
    - Applied early planning so that the Risk of data privacy and integration challenges can be mitigated.
    - Reduced effort by allowing for incremental changes and frequent feedback through agile methodologies.
    - Made the project plan more resilient by adding Proactive risk management.

Peer Interactions:

- Collaborated on the **problem identification report** for the project, focusing on **no-shows** and **overbookings** in healthcare by sharing diverse perspectives leading to a comprehensive risk list and dividing tasks based on individual strengths, fostering team efficiency.
- Engaged in discussions that enhanced understanding of patient scheduling inefficiencies and possible machine learning solutions.
- Learned the value of collective analysis in risk identification and gained new strategies for risk assessment from peers' experiences.

Challenges Faced:

- Difficulty in distinguishing risk prioritization from risk assessment.
- Further clarification needed on quantifying risks and applying the right mitigation strategies.

- Effective implementation of risk response strategies in the project.

Personal Development Activities:

- Self-Study on Agile Methodologies by exploring additional resources and case studies and comparing traditional and Agile approaches to risk management.
- Prepared for and attempted the first in-class quiz.
- Gained experience in teamwork and project planning through the problem identification report.

Goals for the Next Week:

- Deepen understanding of risk prioritization.
- Contribute to the market analysis report.
- Integrate formal risk assessment tools into the project workflow.
- Prepare for the upcoming quiz covering Chapters 4 and 5.

Week 4

Key Concepts Learned:

- Configuration Management involves managing software changes, ensuring traceability, and handling multiple versions of a system.
- Configuration Management ensures stability by managing changes systematically and minimizes chaos from uncontrolled modifications.
- Advantages of Configuration Management such as it reduces confusion and organizes project activities, ensures product integrity, and maintains stable development environments and reduces lifecycle costs.
- Key components of Configuration Management such as Configuration identification, Configuration control, and Configuration audits.
- Discussed the consequences of poor Configuration Management, such as: Versioning issues, and Traceability problems.

Application in Real Projects:

- Configuration Management practices would be essential in our healthcare scheduling project for managing Software updates, Version control, and Change tracking.
- Established a version control system using Git and defined baseline configurations for code and documentation.
- Used version control to ensure smooth deployment of new features and avoid issues like missing functionalities.
- Managed configuration to ensure smooth handling of machine learning model updates and integration with healthcare systems like EHRs.

Peer Interactions:

- Worked with team members on the market analysis report, focusing on Identifying target audience and Analyzing competitors.
- Discussed how to present the project proposal pitch, leading to clearer understanding and better team coordination.

Challenges Faced:

- Concerned about challenges related to integrating with healthcare systems like EHRs.
- Struggled with understanding the role of configuration audits in machine learning projects.

Personal Development Activities:

- Continued preparing for the quiz on October 7th (Chapters 4 and 5).
- Explored branching strategies and merge conflict resolution in Github.
- Improved presentation skills while preparing for the project proposal pitch.

Goals for the Next Week:

- Refine the project proposal pitch.
- Learn more about configuration management tools and their integration in healthcare.
- Prepare thoroughly for the quiz on Chapters 4 and 5.