**FINAL LEARNING JOURNAL**

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**Course:** SOEN 6841 - Software Project Management

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1. **Overall Course Impact**

This software project management course has transformed how I view and handle software development projects. Before diving into this, I often found myself overwhelmed by the complexities of resource planning, scheduling, and keeping project scope in check. However, as I engaged with the material, my understanding shifted dramatically, and I picked up some efficient skills that have boosted my confidence in managing projects.

I got hands-on experience with tools like PERT and Gantt charts, making planning much more manageable. Learning about Earned Value Management (EVM) for tracking budgets and costs was a game changer. It’s fascinating how these methods can clarify a project’s financial standing. We also spent time on feasibility studies, which helped me grasp how to assess whether a project is worth pursuing right from the start.

**Chapter-wise Impact:**

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| **Chapter** | **Key Insights** |
| **Chapter 1: Introduction** | Laid the groundwork for understanding core project management concepts and their application in software development. |
| **Chapter 2: Planning** | Introduced tools like PERT and Gantt charts to create effective plans and track schedules comprehensively. |
| **Chapter 3: Effort Estimation** | Highlighted accurate effort estimation methods essential for scheduling and resource allocation in projects. |
| **Chapter 4: Risk Management** | Showed how to identify, assess, and mitigate risks to reduce potential project disruptions. |
| **Chapter 5: Configuration Management** | Explored techniques to manage changes efficiently, ensuring that stakeholders remain aligned with the project’s progress. |
| **Chapter 6: Project Planning** | Focused on structured methods like CPM and Critical Chain Method for organizing project tasks and timelines. |
| **Chapter 7: Monitoring and controlling** | Taught strategies to track progress and control costs and schedules, improving decision-making. |
| **Chapter 8: Project Closure** | Emphasized the importance of final deliverables, archiving, and lessons learned for organizational growth. |
| **Chapter 9: Software Lifecycle** | Explained various lifecycle models and their relevance for different software projects, enabling informed choices. |
| **Chapter 10: Software Requirement** | Covered effective techniques for gathering and validating requirements, critical for stakeholder satisfaction. |
| **Chapter 11: Design Management** | Explained high-level and low-level design approaches, emphasizing the importance of detailed design reviews. |
| **Chapter 12: Construction** | Highlighted concurrent engineering techniques to streamline development workflows. |
| **Chapter 13: Testing** | Underlined the importance of rigorous testing processes to ensure quality and reliability in software. |
| **Chapter 14: Release and Maintenance** | Discussed strategies to support and maintain software products after deployment. |

Through these chapter explorations, I gained practical knowledge about planning, building, and maintaining software projects. A challenging component for me was mastering the balance between structured methodologies like Waterfall and flexible approaches like Scrum, especially for dynamic projects.

1. **Application in Professional Life**

* **Effective Project Management:** Gained experience managing all stages of a project, from start to finish, ensuring objectives are consistently achieved.
* **Resource Optimization:** Learned to allocate resources effectively, even in challenging situations, to boost efficiency and outcomes.
* **Risk Mitigation:** Adopted a proactive approach to identify and address risks early, preventing potential disruptions.
* **Change Management:** Gained expertise in handling changes to ensure project scope, timelines, and stakeholder expectations remain aligned.
* **Continuous Improvement:** Embraced the importance of reflecting on past projects to apply lessons learned and enhance future performance.

1. **Peer Collaboration Insights**

Collaborating with peers was one of the most valuable aspects of this course. Engaging discussions provided fresh perspectives, especially when analysing lifecycle models and risk management strategies.

* Practicing presentations sharpened my communication skills and improved how I conveyed ideas.
* Team meetings facilitated task alignment, priority setting, and efficient distribution of responsibilities.
* **Key Challenge:** Balancing time and ensuring fair contributions during group work required strong coordination and flexibility.

1. **Personal Growth**

This course significantly enhanced my critical thinking and strengthened my ability to act as an effective project manager. I improved in organizing tasks, solving complex problems, and articulating ideas more clearly.

* Enhanced communication skills through discussions, group collaboration, and presenting to stakeholders.
* Built resilience and adaptability through hands-on experiences managing uncertainties in projects.
* **Key Challenge:** Building confidence in decision-making under pressure and learning to manage competing priorities effectively.