Learning Journal Template

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Course: Master of Engineering Software Engineering

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Week 3: 04 Jan - 10 Fab

Date: 10 Fab

Key Concepts Learned:

Risk Management:

These risks can occur and hamper project progress. Finding chances of occurrences of risks and finding ways to tackle them is important. So risk management is very important for any project.

ISO Definition:

Risk: It is the combination of the probability of an event and its negative consequence.

Risk category: a class or type of risk (e.g., technical, legal, organizational, safety, economic, engineering cost, schedule).

Risk Assessment:

Risk identification: identify the possible risks ASAP and find a way to solve them.

Identify risks related to the overall project, the product, and the business.

Risk Analysis: An analysis process can be done on already existing products with similar features

Qualitative: Scale (for example: Low, Moderate, Significant, High)

Quantitative: the probability of occurrence

Risk Prioritization: We need to prioritize risks to solve them.

Risk Exposure: Risk Probability * Impact

Here, the impact is important to prioritize risks.

Risk Categories:

Technical Risk: It's possible, we do not have enough experience with certain technologies.

People Risk: Consider key staff being unavailable at times when they are mostly needed.

Organizational Risk: Unanticipated financial problems result in budget cuts.

Tool Risk: Computer-aided software engineering tools are not inter-compatible

Requirement Risk: Major changes in requirements may not be feasible or may cause major delays in the project.

Legal Risk: Produced data might pass through legal procedures.

Estimation Risk: The time required to complete the project has been underestimated.

Budget Risk: A few software or tools might need to be in the budget.

Causes of Risks:

There are a bunch of reasons that are responsible for risks.

Bad Negotiation

Cost Constraints

Quality Constraints

Resources unavailable

Attrition

Poor Management

Human Error

Risk Control:

Risk Planning: This can be performed at the beginning of the project's development

Resolution: This can be performed throughout the project’s development

Risk Monitoring: This can be performed throughout the project’s development.

Reflections on Case Study/Course Work:

Throughout the week, I delved into a case study on project initiation and risk management, seamlessly applying theoretical concepts to practical scenarios. Analyzing the case study allowed me to bridge classroom learning with real-world implementation, deepening my understanding of the subject. This transformative journey went beyond academia, enriching my perspective on project management challenges. This hands-on experience honed my problem-solving skills and provided profound insights into project complexities.

Additionally, working on a problem identification document for an AI-based personal assistant enhanced my skills, offering a comprehensive grasp of project complexities in practical scenarios.

Collaborative Learning:

Group Meeting and Peer Interaction

I collaborated with Mr. Kashyap Patel, a full-stack developer at a prominent IT company specializing in media platforms, for real-world risk prediction techniques and our final project. During our meeting, Mr. Patel shared valuable insights on Risks, types of risks, and risk management with handling, covering various methodologies such as spirals, agile, and rapid development. nd different risks in these particular models discussed the problem-solving approaches, and the importance of risk management, exploring different types of risks. F

From a project perspective, we meet twice a week, to solve general doubts about the project and task distribution. Finally, our 1st task about project initialization and Market analysis has been completed and we are looking to forward it.

Research/Readings:

I got an ebook on software management, and then I went through a few core topics of software projects, various models, Management skills, Team building, and management also risk concepts have been added to daily learning Further, Get to know about a bunch of reliable risk management techniques. Moreover, learn various methods to predict and analyze the risk.

Due to an ebook, continue learning about the CICD pipeline.

Adjustments to Goals:

I have gone through chapter 4. Read some articles related to these topics. For the project we are on time and work with timing is expected.

Challenges Faced

#1. Faced a couple of challenges while working on a project.

Goals for the Next Week

I’m planning to cover Chapters 5 and 6 as well, which will teach about configuration management and understanding CICD. Moreover, will work on different project perspectives as soon as we get instructions, presently initial steps are going on.