

## Learning Journal [Week 3]

**Student Name:** Bhoomiben Kiritbhai Bhatt

**Course:** SOEN 6841 Software Project Management

**Journal URL:** <https://github.com/bhoomyy/LearningJournal-/tree/LearningJournal>

**Dates Range of activities:** 7 October 2024 to 14 October 2024

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### Key Concepts Learned

#### 1. Project Risk Overview

A project risk is any uncertain event or condition that could impact project objectives, leading to delays, budget issues, or quality problems.

#### 2. Types of Project Risks

Projects face various risks, including technical (e.g., technology issues), financial (e.g., budget limits), schedule (e.g., delays), resource (e.g., staffing gaps), and external risks (e.g., regulatory or market shifts).

#### 3. Risk Impacts on Projects:

Risks can cause delays, budget overruns, quality issues, decreased stakeholder satisfaction, reputational harm, and even project failure.

#### 4. Risk Management Strategies

Effective risk management includes identifying, evaluating, and prioritizing risks, then implementing strategies like contingency planning, risk transfer, risk avoidance, sharing risks through partnerships, and ongoing monitoring.

#### 5. Configuration Management System

A configuration management system consists of tools, policies, and processes to systematically track changes in software or hardware components throughout their lifecycle.

#### 6. Components of Configuration Management

- a. Version Control: Tracks modifications to code, documents, and other assets.
- b. Configuration Identification: Labels items for easier tracking.
- c. Change Control: Manages change requests and evaluates their impact.
- d. Configuration Audit: Verifies configurations align with standards.
- e. Release Management: Plans and deploys software updates.
- f. Baseline Management: Sets an approved configuration baseline for future changes.

#### 7. Importance of Configuration Management

- a. Ensures traceability and accountability for all changes.
- b. Facilitates team collaboration.
- c. Maintains consistency and stability in configurations.
- d. Enables swift issue resolution and rollbacks when needed.

#### 8. Successful Configuration Management Deployment

- a. Clear Policies: Define procedures and guidelines.
- b. Tool Selection: Choose tools that fit the project needs.
- c. Training: Educate the team on system use.
- d. Incremental Implementation: Introduce changes
- e. Open Communication: Encourage feedback during deployment.

- f. Ongoing Review: Continuously improve the system.

## **9. Software Project Plan**

A software project plan is a detailed document outlining objectives, scope, resources, timelines, and tasks for successful project delivery. It guides planning, execution, and control from start to finish.

## **10. Components of a Project Plan**

- a. Objectives and Scope
- b. Deliverables
- c. Schedule and Milestones
- d. Resource Allocation
- e. Risk Management
- f. Communication and Quality Assurance Plans
- g. Change Management
- h. Budget Estimates
- i. Roles and Responsibilities

## **11. Types of Software Project Plans**

- a. Development Plan: Covers coding, testing, and integration.
- b. Deployment Plan: Guides software release into production.
- c. Maintenance Plan: Details post-deployment support.
- d. Documentation Plan: Outlines requirements for manuals and other documents.

## **12. Inputs for Project Planning**

- a. Project Requirements: Stakeholder expectations and specifications.
- b. Stakeholder Feedback: Input from sponsors and users.
- c. Resource Availability: Information on budget, staff, and tools.
- d. Organizational Standards: Company policies and procedures.

## **13. Project Planning Techniques**

- a. Work Breakdown Structure (WBS): Breaks down tasks for better management.
- b. Gantt Charts: Displays timelines and task dependencies.
- c. Critical Path Method (CPM): Identifies essential tasks impacting project duration.
- d. Risk Analysis: Assesses potential risks and responses.
- e. Resource Allocation: Assigns tasks based on availability and skills.
- f. Stakeholder Engagement: Ensures alignment with project goals.

## **14. Smoke Testing**

Smoke testing, or build verification testing, involves initial testing to confirm a build's stability. It checks core features to determine if the build can proceed for further testing. Passing smoke tests indicates stability; if issues arise, they must be addressed first. This early-stage testing helps identify critical flaws and reduces risks.

## **Reflection on Course work/Course study:**

This week, I explored a case study on project initiation and risk management, applying theoretical knowledge to practical situations. This analysis helped me connect classroom concepts with real-world applications, broadening my understanding of project management challenges. This experience enhanced my problem-solving abilities and offered valuable insights into project complexities. Additionally, working on a problem identification document for digital skill training for lower income community further developed my skills and gave me a practical understanding of project challenges.

**Peer Interactions:**

Our team dedicated this week to advancing our digital training program for a lower-income community. We carried out research, finalized project steps, and refined the problem statement through team discussions. Reviewing similar projects, analyzing the market, and weighing their advantages and disadvantages were essential parts of our process. By examining the target audience and conducting a stakeholder analysis, we developed a detailed project initiation and market analysis report. To further improve our planning, my classmate and I analyzed a related case study from our course, systematically identifying and assessing possible project risks.

**Challenges faced:**

This week, I explored challenges in risk and configuration management.

Risk Management: I learned that resource limitations, service breakdowns, and rapid tech changes are major challenges, often causing delays and quality issues. Managing risks requires consistent monitoring and clear prioritization to minimize impact.

Configuration Management: Frequent updates and version control are difficult to manage, leading to issues like lost traceability and repeated defects. Maintaining stability and quality demands a structured approach to configuration changes.

**Personal Development Activities:**

I recently read an insightful article, “Product Risk Management: A Comprehensive Guide” by Alex Johnson. This article explores essential skills for handling risks in product development, emphasizing strategic viewpoints. I plan to read similar articles to expand my knowledge in this area. I also read “Agile Risk Management” by Sarah Thompson, which offers practical insights into risk estimation and planning within an Agile context.

**Goals for the Next Week:**

My main focus this week is to go over all completed chapters and start preparing for the mid-term exam.

I also intend to finish any additional tasks assigned for this week.

Following last week’s goals, I attended all scheduled project meetings, began work on the project, and developed a market analysis report.

I also reviewed Chapter 4, noting key concepts throughout.