

## **Learning Journal Template**

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**Course:** Master of Engineering Software Engineering

**Journal URL:** [LearningJournal\\_5](#)

**Week 3:** 18 Feb - 09 Mar

**Date:** 5 March

### **Key concepts learned:**

#### **Project Planning:**

Managing change requests and different versions of the software product is done in configuration management.

1. What is the software project plan?
2. What are the parts of a software project plan?
3. What are the types of software project plans?
4. What inputs go in making a software project plan?
5. What techniques are used in making a software Project plan?

#### **Project Planning:**

- Probably the most time-consuming project management activity.
- Continuous activity from initial concept through to system delivery.
- Plans must be regularly revised as new information becomes available.

### **Project Management Fundamentals**

1. Top-Down Approach
2. Bottom-Up Approach

#### **WBS**

- Work breakdown structure (WBS) is the systematic way of breaking down the complete project work into smaller tasks. WBS also maintains relationships among tasks so that it is possible to know which tasks precede another tasks, which tasks can not start before completion of some other task etc.

### **Activity Organization:**

- Activities in a project should be organised to produce tangible outputs for management to judge progress.
- Milestones are the end-point of a process activity.
- Deliverables are project results delivered to customers.
- The waterfall process allows for the straightforward definition of progress milestones.

### **Milestones and Deliverables:**

#### **Activities :- Milestones**

Feasibility Study :- Feasibility Report

Requirements Analysis :- Requirements Definition

Prototype Development :- Evaluation Report

Design Study :- Architectural Design

Requirements Specification :- Requirement Specification

### **Supplier Management Plan:**

1. Service Level Agreement
2. Part Quality Check
3. Communication Plan
4. Central Configure Plan
5. Communication Integration

### **Project Scheduling:**

- Split project into tasks and estimate time and resources required to complete each task.
- Organise tasks concurrently to make optimal use of workforce.
- Minimise task dependencies to avoid delays caused by one task waiting for another to complete.
- Dependent on project managers' intuition and experience.
  - Calendar Based
  - Activity Networks

### **Project Activity:**

Project activities (tasks) are the basic planning element. Each activity has:

- a duration
- an effort estimate
- a deadline
- a defined end-point review, the successful execution of all tests, etc.

### **Bar Chart and Activity Network:**

- Graphical notations used to illustrate the project schedule.
- Show project breakdown into tasks. Tasks should not be too small. They should take about a week or two.
- Activity charts show task dependencies and the the critical path.
- Bar charts show schedule against calendar time.

### **Critical Path:**

- The critical path is determined by adding the times for the activities in each sequence and determining the longest path in the project.

### **Project Management Fundamental:**

- Project planning in an iterative software lifecycle model is different from project planning in a waterfall model environment.
- For iterative projects, the entire project plan spans several iterations. Depending on the lifecycle model, these iterations can be full or partial.

### **Reflections on Case Study/Course Work:**

- Throughout the week, I came to know the importance of project planning, it's like the heart of an entire project.
- I found that the most important part of any project doesn't matter what field it is but the planning and management tithing is the most crucial part.
- We as a group applied planning basics in the project and now looking forward to going with feasibility study and risk planning.

### **Collaborative Learning:**

#### Group Meeting and Peer Interaction

- For that week I didn't connect with any peers due to exams.
- We were studying in a group and preparing for exams and went through all chapters.
- In Addition, I communicate with a couple of seniors to get an idea about exam style and for a couple of doubts.

### **Research/Readings:**

- Refer to all the chapters for exams and go through all the concepts.
- Solve the doubts from Ebook and other resources.
- From the ebook, continue learning about the CICD pipeline.

### **Adjustments to Goals:**

- I have gone through Chapter 6. Read some mid-sem syllabus and prepare for exams including SPM and other subjects.

### **Challenges Faced**

- Got confused for twice or thrice topics, but they ended up with a satisfactory solution.

### **Goals for the Next Week**

- As, professor mentioned, I have to go through chapters 7 and 8. So during the week, I'll try to complete both chapters.
- Will continue project planning and project work about feasibility study and risk management.
- Week will end up with a couple of group meetings, regarding the project.
- Will look into the risks reduction and feasibility study as it'll be our next major topic for a project of AI-powered personal assistant.