

**Student Name:** Krishna Alpeshkumar Patel

**Course:** Software Project Management

**Journal URL:** [https://github.com/krispatel1001/SOEN6841\\_SPM\\_Journals](https://github.com/krispatel1001/SOEN6841_SPM_Journals)

**Dates Range of activities:** 1st October 2024 - 15th October 2024

**Date of the journal:** 2nd November 2024

### **Key Concepts Learned:**

#### Chapter 6: Project Planning

The project planning step, which is crucial for organising and controlling the activities, materials, and time needed to finish a software project, was covered in this chapter. Establishing a baseline for different elements including money, time, and scope is part of project planning. Top-down and bottom-up planning were emphasised as two essential planning strategies. While bottom-up planning predicts the time for smaller tasks first and then adds them together to estimate the overall project duration, top-down planning begins with the project length and divides it into smaller job durations.

The Work Breakdown Structure (WBS), which divides the project into manageable tasks, establishes dependencies, and aids in resource allocation, was another crucial idea discussed. Deliverables and milestones were also covered as crucial instruments for monitoring project development and guaranteeing that observable outcomes are achieved at every phase.

#### Chapter 7: Project Monitoring & Control

In order to maintain alignment with the original project plan, this chapter stressed the significance of monitoring and regulating a project. I became aware of Earned Value Management (EVM), which correctly assesses project success by combining time and expense. By contrasting baseline data with actual project data, EVM helps evaluate schedule and budget variations. Variance analysis and determining the critical path—the order of tasks that establishes the project's minimal completion time—are two methods for project control.

Monitoring progress entails more than just gathering data; it also entails responding appropriately to variances. Additionally, I discovered that scope control and risk management are essential elements of control. These techniques guarantee that any modifications to the project are handled methodically in order to prevent scope creep and unanticipated hazards that might endanger the project's success.

### **Application in Real Projects:**

Real-world software projects benefit from an understanding of project planning and monitoring. For instance, dividing complicated projects into smaller, more manageable parts using the WBS approach might help with scheduling and resource allocation. EVM is also essential for keeping project costs and schedules under control, particularly for initiatives with stringent time and resource restrictions. By identifying and concentrating on the activities that have a direct impact on project completion, the critical route technique can assist avoid delays.

EVM, for example, might be used to track budget expenditures and completion rates in a project with several interdependent activities. This would enable project managers to make data-driven modifications in real time. Similarly, scope control and risk management strategies would be necessary to avoid project derailment due to unforeseen changes, which frequently occur in dynamic software development settings.

### **Peer interactions:**

I talked with peers this week about the difficulties in allocating resources and scheduling projects. Understanding dependencies was aided by one peer's thoughts on how to visualise project timelines using Gantt charts. The usefulness of EVM in software projects, where frequent demand changes might make it difficult to precisely manage budget and schedule, was the subject of another controversy.

### **Challenges Faced:**

Understanding the intricate workings of Earned Value Management (EVM), particularly when it came to figuring out schedule and expense anomalies, was one of the biggest obstacles. It became evident that obtaining this data in real-time might be challenging since EVM depends on precise baseline data, particularly for projects with many overlapping operations. There were also challenges in comprehending the subtleties of scope management and managing scope modifications without affecting the timeframe.

### **Personal Development Activities:**

I looked at lessons on how to use programs like Microsoft Project and Gantt charts to better understand project scheduling strategies. Since risk management techniques are essential for managing unforeseen circumstances in projects, I also read through other publications on the subject. My comprehension of project control methods and useful tools for their implementation was strengthened by these exercises.

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

Gain confidence in calculating variances and strengthen your grasp of Earned Value Management (EVM) by practising. To effectively manage dynamic changes in project needs, concentrate on studying risk management techniques. To comprehend the flexibility and constraints of critical route analysis, take part in discussions regarding its use in iterative project models.