

Student Name: Ahmad Faraz Raza (40272790)

Course: Software Project Management

Journal URL: [GoogleDrive Link](#)

Dates Range of activities: 1st September 2024 – 20th September 2024

Date of the journal: 20th September 2024

Key Concepts Learned:

This week, I studied the foundational aspects of Software Project Management, focusing on project initiation, scope, effort, and cost estimation. I explored the core concepts of what constitutes a software project, the role of a project charter, and how projects are scoped and initiated. In addition, I learned about different estimation techniques such as experience-based techniques and algorithmic models like COCOMO for estimating effort and cost. The idea of breaking down projects into phases, and understanding effort-driven models of software development, were key takeaways.

Application in Real Projects:

The learnings can be applied directly to software development projects. For example, understanding how to initiate a project with a well-defined charter and scope is crucial for setting clear expectations. Additionally, the experience-based and algorithmic estimation techniques provide a structured approach for planning resources and timelines. In real-world scenarios, such as estimating the effort required for developing new software features, I can apply the Function Point Analysis (FPA) method to improve accuracy in forecasting effort and budget.

Peer Interactions:

Throughout the week, I engaged in discussions with peers about project initiation challenges and estimation techniques. These discussions enriched my understanding, especially when comparing various cost-estimation methods and their applications in different software lifecycle models. Collaborative exercises also helped solidify my grasp on the practical implementation of estimation methods like COCOMO and FPA.

Challenges Faced:

One challenge I encountered was accurately understanding the differences between experience-based and algorithmic cost models, particularly when dealing with complex, unfamiliar software projects. I also found it difficult to fully comprehend the impact of different estimation variables, such as size and effort multipliers, on the overall project estimate.

Personal Development Activities:

As part of my personal development, I explored additional resources on project estimation techniques, specifically COCOMO and Function Point Analysis. I also applied what I learned to a personal project by estimating the effort for a small application, which provided practical insights into the complexities of effort estimation in software development.

Goals for the Next Week:

Next week, I aim to focus on improving my understanding of project scope management and refining my ability to apply estimation techniques more accurately. I plan to further explore the challenges associated with managing software projects using iterative models versus waterfall models. Additionally, I will seek peer feedback on the application of these estimation techniques to different software projects to enhance my practical understanding.