Learning Journal for Week 01

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Course: Software Project Management

Journal URL: https://github.com/SayeedSanjana/SOEN6841

Week 1: Jan18 – Jan24

Date: Jan24, 2024

Key Concepts Learned:

During this week's session, we mostly discussed the fundamentals of software project management. We delved thoroughly into various concepts of project management and how to manage a project to reach specific goals. We went through different key concepts like - Key concepts include the definition of a project, the role of project management, and the processes involved in it. We got to know project management consists of the following processes: project initiation, project planning, project monitoring and control, and project closure. The first week's session also covered the software development project, which entails developing software design based on customer needs and implementing source code. The source code is then tested to identify errors. It also discussed software maintenance, which involves changing an existing product to remove flaws. After reading the book, it became clear that software projects require not only project management abilities, but also strong software engineering skills. We also explored the significance of software projects in our today's society and got to know about the challenges that are faced in managing a project. The book also discussed several critical aspects of how a successful project manager manages the project. We learned about the basic qualities of a software product after listening to the professor's presentation and reading the book The second chapter of the book was a continuation of the first, where we learned about three major concepts: 'Project Charter', 'Project Scope', and 'Project Objective'. After reading the entire book, the project charter primarily comprises items like project goals, project objectives, and significant responsibility allocation. In addition, throughout the class, the lecturer highlighted several concepts related to these three issues, as well as the importance of these three notions in avoiding first glitches and false starts. In this week's class, we learned about the importance of good project initiation management, clear project charters, well-defined project scopes, and precise project objectives in assuring the success of software projects. It also emphasizes the importance of an experienced project manager in identifying uncertainties during project initiation.

Application in Real Projects:

The concepts I learned in week one may be applied to real-world projects by properly comprehending project initiation, project management, project planning and monitoring, and project closing. Budget, resource allocation, and scheduling are all critical components of launching any project in a real-world context. Thus, by using the notion of appropriate project management, perceiving the large picture of the project, and having well-defined and exact project scope and objectives, we may overcome the problems and properly generate a software product with minimal work and cost. Implementing efficient project management approaches may handle a variety of obstacles that arise in the software industry, such as communication difficulties and team interactions. Furthermore, having a well-designed project charter and identifying specific

obstacles such as adding innovative requirements to an existing project makes it much easier and takes less time to integrate such functions.

Peer Interactions:
This week, there have been no encounters with the peer. This week was primarily devoted to reading the chapters, doing the exercises, and reviewing the case study. This week did not include a great deal of peer engagement.

Challenges Faced:
There were few obstacles this week because the topic was familiar. However, I was confused about the terms 'Project Charter', 'Project Scope', and 'Project Objective', but after reading the textbook and attending the class, I had a clear and comprehensive knowledge of the ideas. Furthermore, the case studies at the end of the chapters were quite simple, but they took a long time for me to complete.

Personal development activities:
As part of my personal development, I read few journals that discussed current trends in software project management. Reviewing the case study presented in class to get practical insights into how appropriately integrating various project management concepts contributes to the creation of a perfect software solution.

Goals for the Next Week:
The goal for next week is to work on chapters 3 and 4. Chapter 3 focuses on calculating the effort and money required to complete a software project. In addition, the following chapters will explore various effort estimation methodologies for effectively estimating the project's cost. The chapter will discuss many effort estimation techniques, including COCOMO, LOC, and FPA (Function Point Analysis). Aside from that we will also study chapter 4 where you will be able to discover the timetable and resource estimates for a completed project. Next, alongside the resource and cost estimation, we will focus on learning the external and internal risks that are linked with starting a project from the outset, as well as the risk that exists in the existing project. Also, the focus of this week will be to learn about various risk-management tactics.