**LEARNING JOURNAL**

**Student Name:** Mounika Satya Vani Gundavarapu

**Course:** Software Project Management 6841

**Journal URL:** <https://github.com/gmsv07/Learning-journal/blob/main/LJ_SEP%2009.docx>

**Dates Rage of activities:** 09/09/2024 – 16/09/2024

**Date of the journal:** 09/09/2024

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key Concepts Learned:** | **Application in Real Projects:** | **Peer Interactions:** | **Challenges Faced:** | **Personal development activities:** | **Goals for the Next Week:** |
| On the first day of the class, we discussed the course outline what exactly this course provides, and a brief understanding of various tasks that we are supposed to do in this course such as learning journal, topic analysis, projects and quizzes, and so on..  After getting a detailed idea of the course, we learned subject topics. I understood the terminology of the basic subject but more important to an engineer to understand the difference between an activity, project, and job. Later on, I understood the fundamentals of the subject for example the tasks in a software project, how to initiate a project and what its tasks are, brief idea of the software life cycle and its phases. Jumping to the second portion of the class I understood what is a project scope and project charter. “Project charter” is something that caught my attention. I got a clear idea on the amount of time and budget one need to keep on a project according to how big or small id the project. | In my last job, we implemented similar actions in our project to meet a client's needs. In every project, before working on it one has to maintain clarity on the objectives and targets of the project. Once the team was clear on the objectives, we had to decide the methodology we needed to work on. I understood the clear requirements of the project and read the charter documents which provided clarity on the roles and responsibilities each team member should perform. Then it is followed by a discussion of how we planned the project and the useful techniques. | The group discussion in class helped me recall the topics I forgot and gave me more energy to actively participate in the class.  I can summarise the whole topic we discussed in class and it made my understanding level of the topics even more transparent. | I first confused about the tasks in each phase but after comparing them with the real-time project I did it became easy. Later the terminology has to be memorized more frequently. | I learned the importance of setting clear boundaries as it is very important from the initiation of the project to its closure, which I will prioritize in future projects. | Since it is more theoretical knowledge I will start reading the case studies and find the material to deepen my knowledge.  I will also follow the same steps in doing my project to make it go smooth and easy also to get hands-on experience on how a engineer should be able to handle a project in a professional manner. |

**Date of the journal:** 16/09/2024

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key Concepts Learned:** | **Application in Real Projects:** | **Peer Interactions:** | **Challenges Faced:** | **Personal development activities:** | **Goals for the Next Week:** |
| Today we mainly concerned with the effort and the cost estimation of the project where I understand estimation techniques that are experience-based techniques which are and algorithmic cost modeling. We look more into the uncertainty graphs which are useful in giving clear-cut ideas from the feasibility, and requirements of the project to the delivery. For effort estimation, I learned techniques such as Function Point analysis, Delphi, and COCOMO. We can choose any one of them according to the requirements of the given project. Experience-based techniques include estimation by analogy and expert judgment. By analogy, we meant to determine the size measure which includes further steps to follow. On the other hand for Function point analysis we measure the functionality of user requests that is functionality from the user's point of view and is used when the requirements of the project are defined clearly. COCOMO model because most of the time we have historical data, whereas Delphi is used for uncertain projects where we don’t have enough data and it requires input from the experts. | In my previous academic projects, that is, Hotel Management System I used both FPA and COCOMO to give a vital view of the effort, size, and cost. In the end, I also used the Delphi to validate assumptions. There are too many challenges in combining them but the integration gives strong estimation. | Me and my friend discussed these estimation techniques and we both understood more new points on each technique and it gave more knowledge and clarity on the topics. | At the beginning of the project we did a class activity, as a part of it I wrote a project charter, scope, and objectives for a real-world project. Recollecting the topics and applying them in a short period is more challenging. After that found a difficulty at a point in understanding FPA where there are some dysfunctionalities. | Besides the topics, I learned the importance of effective communication with the team projects. Also by having a discussion I learned new points which I didn’t know before. | We are about to start the project around this week. I and my teammates selected a project and scheduled a meeting to discuss it. |