

Student Name: Mohammad Al-Shariar (40263705)

Course: SOEN 6841 Software Project Management

Journal URL: <https://github.com/Shariar-007/SOEN-6841-Software-Project-Management>

Dates Range of activities: Sep 22 - Oct 5

Date of the journal: 05-10-2024

Key Concepts Learned:

The topics covered this week included a detailed comparison of methods for evaluating effort, resource estimation, and the principles of risk management in project management. The following are the main ideas:

- How engineers create software systems manually
- Estimation of resources
- Importance of expertise level
- Risk management across multiple domains
- How risk affects a project
- How to handle possible dangers

In order to achieve effective project planning and eliminate potential risks, it is essential to select the most suitable technique based on project requirements, as demonstrated by the comparison of effort estimation strategies.

Thoughts on the case study and coursework:

The case study using the Delphi technique for collaboration-oriented effort estimation taught valuable lessons. Collaboratively estimating project elements, exchanging individual estimations, and coming to a consensus was eye-opening. The exercise demonstrated the need for awareness throughout the estimating process and the collaborative approach to managing software development activities. Participating in a risk management case study also brought home how important it is to have a comprehensive plan that covers the identification, evaluation, and reaction processes. awareness the early phases of a project sets apart the framework for successfully managing risks, as demonstrated by the experience's practical use in a real-world project and a deeper awareness of its critical role in project success.

Cooperative Knowledge:

The following are my collaborative learnings:

- Method for estimating effort
- Opinions on particular estimation
- Various techniques for estimating
- Knowledge of risk management strategies

Working with peers greatly improved my comprehension of the Delphi style of exercise, and discussions based on real-world events also broadened my grasp of potential risks. It was simpler to talk about a variety of risk-reduction strategies in the welcoming environment.

Additional Research/Readings:

Parts of the reading addressed the limitations of experience-based methods, particularly in front of quickly developing technology like artificial intelligence and machine learning. In the field of software project management, these works highlight the critical significance of dynamic estimation techniques and the worth of ongoing development. Additionally, the readings went into great length regarding specific risk management methods and tools. Reading up on risk estimating methods and examining actual instances of successful project risk management improved the course material.

Adjustments to Goals:

The awareness of risk and resource estimates underwent a discernible change. The focus shifted to a deeper understanding of how individual speed variations, project duration, and skill sets impact resource requirements. Based on the information acquired this week, a thorough examination of adaptive calculation methods was given a new priority. This following week, I want to expand on my knowledge of risk management principles by taking a closer look at advanced management of software project approaches. I also intend to use enjoyment of peer debates to further integrate risk elimination techniques into the larger framework of software project planning and execution.