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Course: SOEN 6841 Software Project Management

Journal URL: <https://github.com/Nisarg-18/SOEN-6841-Software-Project-Management>

Week 2: January 28 - February 3

Date: 3rd February 2024

Key Concepts Learned:

1. Effort Estimation for a Project:
 - a. It is the process of predicting the amount of human effort required to complete a project.
 - b. Estimation techniques: Experience-based and algorithmic cost modelling.
2. Experienced-based techniques:
 - a. Estimation by analogy: Estimate new projects by comparing them to similar past projects
 - b. Estimation by expert judgment: Experienced individuals or teams provide their opinions based on their knowledge of similar projects.
3. Algorithmic cost modelling:
 - a. Cost is estimated as a mathematical function of product, project and process attributes whose values are estimated by project managers
4. COCOMO Model:
 - a. Stands for Constructive Cost Model.
 - b. It incorporates a range of sub-models that produce increasingly detailed software estimates.
5. Risks management:
 - a. It is an uncertain event or condition that, if it occurs, could have a large impact on one or more project objectives.
 - b. Major types of risks: Technology risks, Budget risks, Quality, risks, Time risks and Resource risks.
6. Steps involved in risk assessment:
 - a. Risk Identification: Collecting all risk items.
 - b. Risk Analysis: Analysing all the collected risks based on likelihood of occurrence, impact on the cost and efforts, etc.
 - c. Risk Prioritization
7. Strategies for risk control:
 - a. Acceptance: It involves acknowledging the existence of a risk without actively attempting to change or mitigate it.
 - b. Avoidance: It aims to eliminate the risk by changing project plans or avoiding certain activities that pose the risk.

- c. Risk transfer: It involves shifting the responsibility for the risk and its potential impact to another party.
- d. Mitigation: It involves taking proactive measures to reduce the probability or impact of a risk.

Application in Real Projects:

1. This week mainly consisted of learning about estimating efforts and costs. Also, I learned about risk assessment and what are the different strategies available to deal with it.
2. Assessing the efforts and risks for the course project.

Peer Interactions:

1. Discussed project objectives with the team members.
2. Discussed different features to add to our project's product.

Challenges Faced:

1. Finding the unique selling points for our intelligent tutoring system.

Personal development activities:

1. I read about various existing intelligent tutoring systems and understood their unique selling points.

Goals for the Next Week:

1. Start with the market analysis of the course project.
2. Go through Chapter 5.