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Course: SOEN 6841 Software Project Management

Journal URL:

<https://github.com/Darshansinh28/SOEN-6841-Software-Project-Management>

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Key Concepts Learned:

- Project Effort Estimation
 - **Definition:** The process of estimating the required work to complete a software project, considering factors like scope, complexity, resources, and risks.
 - **Importance:** Accurate effort estimation is critical for effective planning, resource management, and timely project delivery.
- Techniques for Estimating Project Effort
 - **Definition:** Methods to assess project effort based on experience, comparisons, or models, including expert judgment, analogy-based estimation, parametric estimation, and the Wideband Delphi technique.
- Key Features of COCOMO
 - **Definition:** COCOMO estimates software effort and cost based on lines of code (LOC) or function points.
 - **Estimation Levels:**
 - **Basic:** Rough estimates by size.
 - **Intermediate:** Considers team experience and complexity.
 - **Detailed:** Includes full lifecycle and cost drivers
- Importance of Risk Management
 - **Project Success:** Effective risk management is essential for achieving project goals, as unmanaged risks like resource shortages and outdated technology can significantly hinder progress.
 - **Resource Allocation:** Understanding risks helps in optimizing resource allocation and project planning.
- Risk Categories
 - **Definition:** A systematic approach to identify potential risks and evaluate their likelihood and impact.
 - **Steps:** Identify risks, analyze likelihood and impact, and prioritize them to focus mitigation efforts effectively.
- Risk Control Strategies
 - **Acceptance:** Acknowledging the risk and its potential impact.
 - **Avoidance:** Modifying the plan to eliminate the risk.
 - **Transference:** Shifting responsibility for managing the risk to another party.
 - **Mitigation:** Reducing the likelihood or impact of the risk.
- Importance of Configuration Management (CM)
 - **Definition:** A process essential for controlling and documenting changes in

- a software project.
 - **Purpose:** Prevents chaos, schedule delays, and quality issues resulting from uncontrolled changes.
- Key Functions of CM
 - **Configuration Identification:** Defining baseline components of the system.
 - **Configuration Control:** Implementing formal change processes to evaluate and manage changes.
 - **Configuration Auditing:** Ensuring that the system meets defined requirements and standards.

Reflections on Coursework and Case Study:

1. **Foundational Learning:** This week emphasized the importance of estimating efforts and costs in project management and risk assessment.
2. **Future Application:** Plans to integrate these concepts into upcoming software projects to improve effectiveness.

Peer Interactions:

1. **Collaborative Discussions:** Participated in team meetings to align on project objectives and core features for the Powered Resume Builder, promoting open communication.
2. **Learning from Peers:** Exchanged ideas with classmates on potential unique selling propositions (USPs), integrating diverse perspectives to shape the project's direction.
3. **Competitor Analysis:** Conducted discussions to analyze competitors' strengths and weaknesses, helping us identify opportunities for differentiation and a compelling USP for our product.

Challenges Faced:

1. **Identifying Unique Selling Points:** Encountered difficulty in pinpointing distinctive features for our Powered Resume Builder.
2. **Competing in the Market:** Figuring out how to compete with big, well-known resume builders was tough. We had to analyze competitors and think of ways to make our project unique.

Personal development activities:

1. **Research & Market Analysis:** Looked into existing Powered Resume Builders to understand their features and what makes them successful.
2. **Seeking Feedback:** Asked for feedback from teammates and mentors to improve both my work and the project.
3. **Networking:** Reached out to professionals in the field to gain insights and learn from their experiences.

Goals for the Next Week:

1. **Market Analysis:** Initiate a market analysis for our course project to better understand our competitive landscape.
2. **Further Reading:** Review Chapter 5 for deeper insights into risk management strategies.