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Course: SOEN 6841 Software Project Management

Journal URL: https://github.com/Darshansinh28/SOEN-6841-Software-Project-Management

Week 1: September 9 - September 15

Date: 21 September 2024

Key Concepts Learned:

• Definition of Project Management

- Definition: An activity aimed at achieving specific goals within a defined timeframe.
- Resource Consumption: Involves the use of budget and time.
- Software Project Management
 - **Definition:** The application of project management principles and software engineering methods to develop or maintain software.
 - o **Objective:** Achieve project goals efficiently while minimizing time and budget.
- Importance of Project Management
 - **Economic Contribution:** Rapid growth of software projects significantly impacts the economy and improves lives.
 - o **Challenges:** Common issues include skill shortages and immature tools.
 - Solution: Effective project management techniques can help overcome these challenges.
- Processes in Software Projects
 - Definition: Structured approaches that guide the execution of tasks throughout the project lifecycle.
- Factors Influencing Software Projects
 - Customer Management: Understanding client needs and expectations.
 - **Team Management:** Leading and coordinating team efforts.
 - **Development Model:** Choosing the right methodology (e.g., Agile, Waterfall).
 - Supplier Management: Managing relationships with external vendors.
 - **Technology Management:** Selecting and overseeing the technology stack.
- Requirements for a Successful Software Project Manager
 - Project Understanding: In-depth knowledge of the project's objectives and scope.
 - **Team Management Skills:** Ability to lead and motivate a diverse team.
 - Proficiency in Tools: Familiarity with relevant tools and technologies for project execution.
- Software Project Initiation
 - Components
 - **Project Charter:** Authorizes the project, outlining purpose and goals.
 - **Project Scope:** Defines deliverables and boundaries.
 - **Objectives:** Specific, measurable goals for project success.
 - Initial Estimations: Preliminary assessments of time and resources needed

- Project Charter, Scope, and Objectives
 - Project Charter: A high-level document detailing the project's purpose and stakeholders.
 - **Project Scope:** Details what is included and excluded from the project.
 - o **Objectives:** Goals that must be met for the project to be considered a success.

Application in Real Projects:

- 1. Foundation: Week focused on fundamental principles of project management for effective planning and execution.
- 2. Implementation: Plans to apply practices in future software projects to enhance effectiveness.

Peer Interactions:

- 1. Case Study Discussion: Engaged in class discussions on a relevant case study.
- 2. **Importance of Management:** Participated in dialogues about the necessity of project management in software development.

Challenges Faced:

1. **Complexity:** Grasping concepts is challenging due to the multifaceted nature of project initiation.

Personal development activities:

1. **Exploration:** Began exploring how software project management simplifies the development process for developers and clients.

Goals for the Next Week:

- 1. **Project Initiation:** Start the project initiation phase and conduct market analysis for the course project.
- 2. Review: Go through Chapters 3 and 4 to enhance understanding.