



UTM
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Project Management dan System Development

Section : 5
Group : 3

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Speaker's Experience

The speaker graduated from UTM in July 2015 and began his career that September. He is currently the **Head of Technology and Innovation** at

Serunai Commerce Sdn. Bhd. , a company providing Halal solutions. He shared that he struggled during his first three years because he didn't initially value his university education. For instance, he failed to explain what is SDLC during his first interview despite learning it as a freshman. Now, he manages and leads major projects in the company and he also shared his experiences meeting NASA in New York.



Figure 1

About Project Management and System Development

Project Management is the process of planning, organizing, executing, and monitoring, controlling the completion of the project to achieve specific goals within a defined time, cost and quality. Commonly, project management use tools like **Work Breakdown Structure (WBS)** and **Agile or Waterfall methodologies**. Project management (PM) is crucial in undergoing a project. It controls the chaos to ensure the team stays on track, on time and within a budget as software projects are usually complex. Besides, PM skills help the team members to coordinate with each other, such as designers and testers effectively.

System Development is not only about writing codes. It is the entire process of defining, designing, testing and implementing a software application to meet user needs. Without this process, the team will have chaos, bugs, and even failing the project. System development usually follows the **System Development Life Cycle (SDLC)**, with the first stage that is Requirement Analysis for understanding user needs and second stage, System Design that is planning and designing architecture of a system. Then, the Development stage that is coding and following with the forth stage, testing to check system's functionality. After that, it will release the system to the public at the Deployment stage. Lastly, it will undergo maintenance for upgrade and improving the system.

Project Management and System Development have applied in various courses, including Computer Network. The professional team will plan network installation and continuously upgrade schedules. Besides, the team members will coordinate with each other to apply team roles for hardware sourcing. They usually manage the downtime of the system and the security risks that they will face. Furthermore, the team applied SDLC for system development to ensure the flow of processes are smooth and efficient. In the network system, the team designs network topology and configures routers, firewalls and switches. They will test the network performance and security level frequently to ensure all of the structures are in good condition.

Reflection

Yang Kah Hin: I have known that project management aims for how the work is done whereas system development focuses on what system is built from this industry talk. With these concept cognitions, I will know how to collaborate with my team to carry out the development process step by step clearly. When we have the clear steps to follow in our mind, the team will complete a project efficiently, saving more costs and time.

Muhammad Adlan Hud bin Ais : From this industry talk , I know that writing code is not enough for a computer scientist . The most important skill is knowing how to plan , build and control a complete software project to avoid failure . So I need to focus on system and management skills of mine so that i can ready for my future .

Soubediya Ali: From this industry talk, I learned that effective communication and teamwork are essential for the success of any software project. I realized that technical knowledge alone is not enough if team members are not able to understand requirements clearly and coordinate their tasks properly. Through this talk, I also understood the importance of problem-solving and adaptability when facing challenges during system development. This experience has encouraged me to improve my communication skills and teamwork abilities so that I can contribute more vely to group projects and be better prepared for my future career.

Nik Dini Airil Adrianaa binti Nik Zainudin : From this industry talk, I realised that I must appreciate the knowledge I gain now to be fully prepared for the professional world. I learned that project management is centered on planning, failing to plan is essentially planning to fail. It is now clear that system development is not just a textbook chapter, but the core language of my future career. Since coding is ineffective without project management, I will focus on balancing both to be successful in Computer Science over the next four years. By mastering these fundamentals early and treating every project as a chance to practice my planning skills, I can build the right foundation for a high-level career.

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