

## **Project Management and System Development**

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## **Speaker Experience**

The speaker shares his professional journey and expertise in the field of project management and systems development. His insights provided students with a clearer understanding of how theory relates to industry practice and highlighted the challenges and opportunities of modern IT projects.

## **Project Management and System Development**

Project management refers to the application of planning and control resources to achieve goals through effective planning. System development is a structured process for defining, designing, testing, and maintaining software applications. These stages reflect the planning and implementation in real life, with emphasis on clear goals, preparation, evaluation, and continuous improvement in real life. This reflects the importance of applying academic knowledge into real-world practice and developing structured thinking for their future careers.

## **The Role of Project Management in SDLC**

The System Development Life Cycle (SDLC) begins with the planning phase, where teamwork is essential to define the system's goals and purpose. The next step is the planning phase, where the requirements of the system are collected and clearly defined. These requirements are then translated into system interfaces and workflow during the design phase, before moving into the implementation phase, which includes the coding, construction, and testing of the system. After installation, the maintenance phase ensures the stability, security, and usefulness of the system for a long period of time through continuous updates. Project management plays a key role in supporting the SDLC in coordinating tasks, managing time and budget constraints, and strengthening cooperation between team members to ensure resource efficiency.

## **Project Management Methodologies**

Project management methodologies such as Waterfall and Agile offer different approaches to guiding the implementation of a project. Waterfall provides a linear and structured approach with fixed requirements and predictable results, while Agile emphasizes iterative development, adaptability, and continuous feedback that enable teams to respond quickly to changing needs and deliver incremental improvements. To conclude, Waterfall offers predictability and structure, while Agile provides adaptability and responsiveness in a dynamic environment.

## **The New Era: Agentic Coding**

Agentic coding refers to the emerging approach where autonomous AI agents actively participate in the software development process. Instead of you telling the AI every single step, you give it a goal, and the AI figures out the steps and the AI plans tasks, writes code, debugs errors, and deploys fixes all on their own. This saves time on routine tasks, reduces mistakes, and lets developers focus on the bigger picture like design and problem-solving. In short, agentic coding transforms AI from a passive assistant into an active assistant, almost like a teammate in the project development. ☺

## **Reflection**

Nur Dania Halisa binti Mohd Hazri (A25CS0306)

From the talk, I learned that building software is not something that we can build randomly or spontaneously. It follows a process called as Software Development Life Cycle (SDLC). Each phase has its own purpose or function, starting with why the system is needed, followed by planning how it can be built, designing and implementing the system based on the plans and lastly, maintaining the system's update. In the next four years, I aim to improve my coding by following this cycle.

Nurul Najiheen binti Hazril (A25CS0337)

Upon listening to the speaker's sharing on SDLC and the whole PM process, it has now made clear for us students to understand that no matter the difference of our courses in the Computer Science field in university, Project Management applies to everyone in their career in the future to ensure that a high quality project can be produced with systematic contributions within the team.

Nurin Batrisyia Husna binti Mohd Hazry (A25CS0328)

From the talk, I learned that planning and teamwork are vital in system development by following the process called SDLC. The speaker also points out that AI can help in coding, but it should not replace human creativity. In the next four years, I aim to strengthen my coding fundamentals and explore new technologies like AR/VR and cloud systems to align with industry needs.

Siti Nur Alysha binti Suhaimi (A25CS0354)

From the industrial talk, I learned that "Project management is a planning. If you fail to plan, you're planning for a failure." This made me realize that planning is the key, not just in theory but in real projects. I understood that following the SDLC will help me manage my time, work better in teams, and develop systems that work. By applying these lessons, I believe that I can grow my skills and succeed in this field over the next four years.

Sofea binti Mohammad Hisyamuddin (A25CS356)

Learning about project management and system development helped me understand that success in computer science requires both structured thinking and adaptability. I realized that following clear and correct methodologies ensures organized progress, while integrating AI responsibly can boost productivity without replacing fundamental skills. Over the next four years, I aim to build a strong foundation for a successful career in computer science by combining technical knowledge with disciplined project management.