INDUSTRIAL TALK REPORT :
PROJECT MANAGEMENT AND SYSTEM DEVELOPMENT

Building the CORE Foundation for the Computer Science Journey

(Source: https://www.geeksforgeeks.org/artificial-intelligence/what-is-ai/)

TOPICS COVERED:

- Description of Speaker Experience
- Definition of Project Management and System Development
- Applications in Computer Science Programs
- The Reflection and Future Success Plan
- List of References

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Course: SECP1513-09 TECHNOLOGY AND INFORMATION SYSTEM

Section: 09

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1) The description of the speaker experience
- The talk is about the use of **RORK**, a platform designed to build complete, cross-platform native mobile applications using AI(artificial intelligence) and Expo(React Native). His master lies in the transition to agent coding, and he emphasized that future developers must transform into "system architects," managing AI agents to build systems.

2) What is the Project Management and System Development
- **System Development**: It is a comprehensive process encompassing the definition, design, testing, and implementation of a software application. It's more than just writing code; it provides a "blueprint" for the project, preventing chaos and failure. This process typically follows the **Software Development Life Cycle (SDLC)**, which includes planning, analysis, design, implementation, and maintenance.

- **Project Management (PM)**: In complex software environments, project management is crucial for "**controlling chaos**," ensuring projects are completed on time and within budget. Furthermore, project management fosters "**Team Synergy**" coordinating the work of designers, testers, and developers, enabling them to work efficiently towards a common goal.

3) How the Project Management and System Development has been used in your program such as:
i) Data Engineering:
- This field requires careful system planning to build efficient and reliable data pipelines.
ii) Computer Network:
- Building a secure system requires starting with a solid foundation in **security design architecture.**
iii) Bioinformatics:
- Processing complex biological data requires powerful algorithms and structured system implementations to handle large datasets.
iv) Computer Graphic:
- Complex rendering engines are considered large software systems that require rigorous system development methodologies to manage their complexity.

4) The reflection from industry talk:

1. CHEW WEN YI - A25CS5051
    - From this industrial talk, I found out how AI affects the real world and also the future. Inside and outside the studies, I will pay more attention to AI integration in coding and programming so that I am not left behind by the technological landscape.

2. KAK YOU CHERN - A25CS5038
   - Through this industrial talk, I learned about the value of Project Management and System Development. I plan to put more effort on managing and building a better architecture design instead of solving the syntax error, and try to include AI to become the "coding agent" to solve the coding tasks.

3. MUHAMMAD RENDY ATSARY - A24CS9003
   - I've realized that future developers need to evolve into system architects, not just people who write code. To prepare myself over the next four years, I plan to move away from simply memorizing syntax and instead focus on learning how to coordinate and manage AI agents. By using platforms like RORK to handle repetitive coding tasks, I can spend more time understanding how complex systems are designed and connected. By my final year, my goal is to confidently manage these "agent workforces" to build scalable applications in an efficient and effective way.

4. ARMAAN SHAAN SANDEEP KUMAR BIN ABDUL HAFIZ - A24CS8017
   - From this industrial talk, I have understood that software development is not only limited to writing codes but includes system design and even system management with AI tools such as RORK assisting in code repetition and allowing developers to concentrate on system and decision-making processes. The importance of understanding project and system development processes in project planning, system design, and coordination among various components has been realized, and I strive to enhance my skill to think at a higher level in system development and to apply AI tools appropriately in my learning for me to be industry-ready in system design and development in the future.

5) List of references

● **Houde, S., Liao, Q. V., Weisz, J. D., & Muller, M. (2022).** Business logic and UI: A study of AI-assisted app development. *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, 1-14.
● **Mr. Alim. (2025, December 31).** *Project Management & System Development: Building the CORE Foundation for Your Computer Science Journey* [Industry Talk]. Universiti Teknologi Malaysia (UTM).
● **Royce, W. W. (1970).** Managing the development of large software systems. *Proceedings of IEEE WESCON*, 26(8), 1-9.