UTM UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

ASSIGNMENT 3 : ACADEMIC WRITING

INDUSTRY TALK 2 : PROJECT MANAGEMENT AND SYSTEM DEVELOPMENT

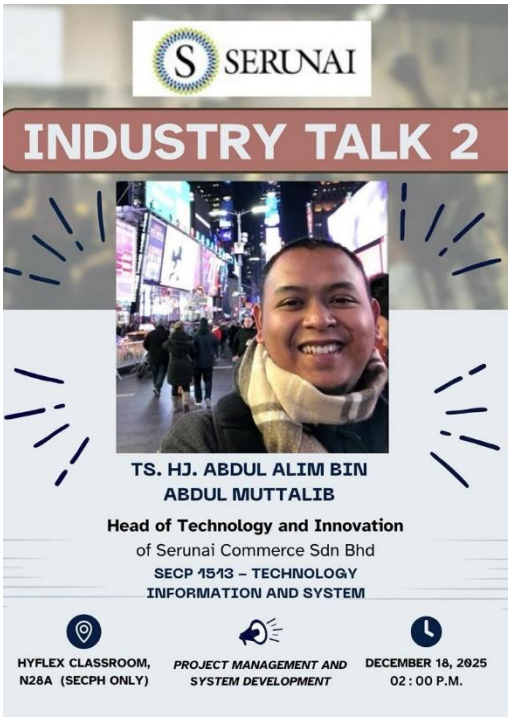
Subject : Technology and Information System (SECP1513)

Session : 2025/2026 Semester 1

Task : Project Management and System Development

Group Member :

1. KAYLYN NG A24CS8015
2. LIM XIN HAN A25CS0084
3. CHONG YING SING A25CS0387
4. WAN LI HUI A25CS0156



INDUSTRY TALK SUMMARY

The industry talk gave a overview of the skills that are needed to success in university studies and the computer science field. The discussion highlighted that system development is not limited to programming only, as it involves structured and organized process. Software development generally follows a systematic process that includes requirement analysis, design, implementation, testing, deployment, and maintenance. This process ensures that the software is developed efficiently and functionally well.

A key subject discussed was the importance of project management in software development. Software projects are challenging because there are changing requirements, limited resources, and collaboration among multiple teams. Effective project management solves this issue by ensuring that projects are finished on time, not over budget and fulfill the requirement. In computer science, collaboration plays a significant role, and project management skills help align the efforts of developers, designers and testers.

Many project management methodologies are used in software industry; Waterfall is an example of traditional ones. It is a linear sequential approach process which each phase must be finished before moving to the next. Due to this mechanism, it is suitable for projects that have fixed requirements and are unlikely to change. It needs to have some strong points, like detailed documentation are clear and defined milestones, which can make planning easier.

However, Agile methods take an interactive approach, dividing development into small “sprints”. Unlike Waterfall, Agile is modern and well suited for projects with changing requirements, as it allows flexible and faster feedback. By prioritizing features and addressing issues step-by-step, Agile takes the lowest risk from project failure and ensuring overall development efficiency. Common Agile frameworks include Scrum and Kandan.

The talk also pointed out current trends int the software industry, especially increasing use of artificial intelligence in software development. Tools powered by AI are showing up everywhere now helping with coding, catching bugs, even handling testing. It is called AI agents and empowered by Devin or Copilot. So, computers are not just expected to write code anymore. There is higher demand to understand the structure of system design, breaking down problems, and thinking strategically about solutions. This shift shows the industry’s need for higher-level thinking skills and adaptability in a fast-changing technologies landscape.

Personal Reflection and Future Plan in Computer Science

1. LIM XIN HAN'S PERSONAL REFLECTION

   From the talk, I learned that achieving success in computer science requires balancing technical knowledge with professional skills. Abilities like problem- solving, communication and teamwork are important as programming skills are essential. Over the next four years, I plan to have a deeper understanding in core computer science topics, including data structures, computer networks, operating system and system design. To enhance my collaboration and leadership skills, I will actively be involved in group assignments and projects.

2. WAN LI HUI'S PERSONAL REFLECTION

   The Industry Talk on Project Management and System Development has increased my understanding of the skills required to succeed in the computer science field. I realized that technical knowledge alone is insufficient without effective communication and teamwork skills. Over the next four years, I plan to strengthen my programming and system analysis skills while participating in group projects to enhance my collaboration abilities. I will also focus on learning project management methodologies such as Agile to prepare myself for real-world system development environments.

3. KAYLYN NG'S PERSONAL REFLECTION

   From this industry talk, I learned that project management plays a crucial role in ensuring the success of system development projects. The speaker's experience highlighted the importance of time management, planning, and adaptability in handling project challenges. In the next four years, I aim to develop strong problem-solving skills and gain hands-on experience through academic projects and internships. I will also work on improving my communication skills to effectively convey ideas within a team. By combining technical expertise with strong project management skills, I am confident that I can achieve success in the computer science field.

4. CHONG YING SING'S PERSONAL REFLECTION

   This industry talk has motivated me to take greater responsibility for my own learning and career preparation. The speaker emphasized that successful system development requires discipline, effective communication, and continuous skill improvement. Over the next four years, I plan to manage my time wisely and set clear learning goals to improve my academic performance. I will also explore new technologies and tools related to project management and software development. By maintaining a positive attitude and strong work ethic, I believe I can successfully prepare myself for a career in computer science.