



SECP1513-05

TECHNOLOGY AND INFORMATION SYSTEMS

Assignment III (Group Assignment)

“Industry Talk Report”

TEAM 5 MEMBERS



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TOPICS:

Industry Representative's Background

Project Management & System Development Skills

Basic Computer Science Skills Needed in Today's Job

Integration of Project Management & System Development Skills in Computer Networks and Security

LECTURER'S NAME

ASSOC. PROF. DR. AZURAH BINTI A SAMAH

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INDUSTRY TALK REPORT

The presenter of this industry talk titled “Project Management and System Development” is Ts. Abdul Alim bin Abdul Muttalib, Head of Technology and Innovation department at Serunai Commerce Sdn. Bhd.. Mr. Abdul Alim was a computer science student of Universiti Teknologi Malaysia in database system, started his Bachelor’s in 2011 before graduating in 2015. He has a certification as a Professional Technologist, acknowledged by the Malaysia Board of Technologists. He started his career in the IT field as a software engineer, before taking roles in managing and supervising IT departments and is heavily involved in IT project management tasks.

According to Dr. Abdul, project management involves planning, coordinating, and monitoring a project to make sure it finishes on time and meets its goals. In system development projects, it organizes work through sprints, daily scrums, defined team roles, and change management to promote smooth cooperation. System development is the step-by-step process of designing, building, testing, deploying, and maintaining systems using methods like SDLC, Waterfall, or Agile. Together, project management provides control and direction, while system development focuses on creating effective systems that meet user requirements.

From the industry talk, Mr. Abdul believes that basic skills required for computer science include true understanding of project management, system development and communication skills. Project management focuses on planning the project to ensure the objectives can be achieved on time. He stated that “if you fail to plan, then you are planning to fail”. Mr. Abdul also stresses the importance of System Development Life Cycle (SDLC) as it is an essential skill for every computer scientist. Proper communication between colleagues and customers is also vital to developing IT systems. To add on, he states that using AI to assist you in coding is very important in today’s job market, as employers only hire those who can provide much more productivity to the company than those who do not know how to use AI as a tool to improve work efficiency. Mr. Abdul pointed out that heavy reliance on AI can lead to badly-programmed systems if programmers do not critically evaluate and examine the AI-generated code, using one real example where a company’s performance degraded due to over-reliance on AI.

Both project management and system development skills have been used in our computer network and security program. For instance, both skills are used in our Design Thinking Project for the SECP1513 Technology and Information System course to develop a digital solution to solve a specific problem in our community. Besides, we apply these principles in our SECJ1013 Programming Technique I when planning the structure of our program to ensure good readability and reusability. Not only that, these skills are important to our computer network and security degree as it allows us to effectively plan and develop security systems in our future assignments and projects.

Overall, this industry talk was satisfying as it gave us a deep insight into what essential skills are needed to be mastered by us computer scientists to get hired in the future. We hope the Faculty of Computing can help us organize more industry talks tailored to specific program needs to further enhance our understanding of today’s computing world internationally and in Malaysia.

REFLECTIONS

WONG LI HONG

This industry talk has widened my horizon regarding skills required by IT companies from fresh graduates. I realized how skills like project management, system development and using AI are heavily needed by employers when it comes to job hunting. Therefore, I have decided to start utilizing any available online resources to strengthen these skills to prepare for my future career.

MALEK ALRIHAWI

This lecture was very important to me, as it made me realize how crucial mindset is, even more so than skills. I now understand that to succeed in network security, technical knowledge alone is not enough; I also need strong project management and systems development skills. I realized it's not just about programming or anything similar; therefore, I want to focus on methods that will help me shift from a programmer's mindset to an innovative engineer's mindset, so I can keep pace with the job market.

NIK MUHAMMAD FAKHRUL AZMI BIN NIK AZLAN

From the talk, I will follow the speaker instruction to take serious about system development and project management that I will be learn in future and dont think them just a 'chapter'. I believe experience from people that already go through it can be really helpful for me, learn from the mistake is absolutely good and change the mistake into succesful is something very awesome.

NUR DINA ALYSA BINTI MOHD.NOR AZHAR

From the industry talk, I realized that to be successful in computer science, I cannot just be good in coding, but I also need to learn other essential skills like project management and system development, understand SDLC and Agile, and improve my communication with teammates and clients. I also plan to use AI tools responsibly to boost productivity. By combining these skills, I hope to build a strong foundation for my future career.