

Assignment 3 Report: System Development

Course Code: SECP1513

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Group's Number: 2

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Description Of The Speaker's Experience

Tuan Hj. Abdul Alim graduated from Universiti Teknologi Malaysia (UTM) in 2015. After completing his studies, he worked in various companies. He was involved in system development and multiple projects, thus gaining extensive industry experience, which later became the Head of Technology and Innovation at Serunai Commerce Sdn Bhd.

During the talk, he shared his career journey and the challenges he faced after graduation. He explained that during his first three years of working, he struggled because he did not fully appreciate the knowledge learned at university in his working life. As a result, he found it difficult to connect theoretical concepts with real industry practices.

He recalled attending a job interview in September, where the interviewer had asked him about the System Development Life Cycle (SDLC). Unfortunately, he was unable to explain it clearly, which made him realise that he had not fully understood or valued the importance of the knowledge he had learned during his studies. Through sharing his experience, he advised students not to repeat his mistakes and to make full use of the knowledge learned in university, especially in areas related to project management and system development.

What Is Project Management And System Development

Project management is a systematic process of planning, organising, directing and controlling resources to achieve specific objectives. They are completed within specific constraints such as time, cost and scope. This process involves coordinating tasks, managing risks and monitoring progress to make sure that the project is completed successfully. Efficient project management helps to improve productivity and ensures proper use of resources.

System development, on the other hand, is the process of creating and maintaining information systems to satisfy user and organisational needs. This process usually follows the System Development Life Cycle (SDLC). SDLC consists of phases such as planning, analysis, design, development, implementation and maintenance. SDLC provides a clear structure for developing a system in an organised manner. It helps to reduce errors, contain costs and ensure that the final system meets its intended requirements.

How have Project Management and System Development been used in the Program?

To solve intricate problems and develop software that is user-friendly to the users, we use the Software Development Life Cycle (SDLC). The development of software can be very disorganised and incompetent without frameworks like SDLC. In bioinformatics, mainly in biotechnology and genetics, SDLC helps to supervise research such as that involving biological databases and data analysis. In computer graphics, the emphasis is on creating visual effects and animations using the correct tools and coding languages. These are later on improved until they are flawless through coding.

Computer Science sectors like Computer Networks, Data Engineering, CyberSecurity and Graphics Multimedia use project management as a vital tool to help them organise tasks such as assigning team roles and data extractions. To meet the client's needs and make the project run smoothly, we need to ensure that the team adapts to project management perfectly. Agile methods are often used in this framework to break work into small cycles for rapid work delivery.

In Computer Networking, Project Management is a process of dealing with the design of a network, solution creation, risk management, and establishing the requirements of the system. This technique of project management proves very useful for the completion of projects in the mentioned field within the time limit, budget, and required quality level desired by the clients. The risk management process deals with managing risks such as network downtime and security risks.

Reflections

KISYORRAN GUNASEKARAN (A25CS5023)

Watching Serunai's Industrial Talk has enlightened me on the importance of system development and project management in the computer science sector. The speaker emphasised that this sector is not only limited to coding but also for managing intricate problems and enhancing our knowledge of development processes. In my opinion, to be well-versed in this field, it is essential to master problem-solving and system development skills. Having only technical skills in this era is not sufficient; we need to understand the concept of SDLC. In conclusion, this industrial talk has really opened my eyes to this sector and the goals that we must set for the future to be successful.

GAN ZHI KWAN (A25CS5008)

From this industrial talk, I learned that the System Development Life Cycle (SDLC) plays an important role in managing and organising system development. I also learned the importance of team synergy, where effective communication and cooperation among team members are necessary for project success. In addition, I learned not to rely fully on artificial intelligence for coding. Instead, AI should be used as an assistant to support learning and productivity. We must still understand the logic and concepts behind the code. In conclusion, this talk helped me understand how project management concepts learned in class are applied in real industry situations and highlighted the importance of continuous learning and teamwork.

BONG JING RU (A25CS5040)

From the talk, I learned that success requires not only technical skills but also soft skills. In addition, I realised that good communication, teamwork, and hands-on practical experience are essential for achieving success. This SDLC talk gave me many insights and helped me better understand what is required for my future career, especially the importance of following a systematic development process in real-world projects. I will appreciate every learning opportunity and commit not to skip any classes at UTM. Furthermore, I will continuously enhance my technical skills and technical knowledge by engaging in more practical work and participating in workshops. Besides that, I will also focus on improving my communication and collaboration skills, and I will retain and apply all the knowledge I have gained at UTM even after I graduate.

SASHWIN RAJAGOPAL (A25CS5031)

As to what I see into the next four years of my journey in computer science, this talk inspired me to not only improve my technical skills but also improve my soft skills on the other hand. These soft skills include problem solving, time management and my ability to work together. I intend to actively participate in lab sessions and team activities in order to develop these skills, obtain real-world experience and keep getting better. By applying the right knowledge, I think I can prepare myself better for the industrial challenges and overall become a successful graduate in the future.

SOFEA OISTINA BT AHMAD FATHUL JOHARI (A25CS5025)

From what I have learned from the talk, it has helped me realise that computer science involves much more than just coding, as system development and proper project management are crucial in real-world applications. I will deepen my understanding of system development processes and apply problem-solving techniques through hands-on projects and real industry-related tasks. I also plan to improve my teamwork, communication, and time management skills by actively engaging in group work and discussions.

List of References

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