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INDUSTRY TALK 2 REPORT

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About the speaker

Overview

Ts. Hj. Abdul Halim bin Abdul Muttalib is a proud UTM alumni who graduated around 2014–2015. Like many students, he once sat in the same lecture halls, eager to explore computer science and unsure of where his journey would lead. Over the past decade, he has worked with various companies and gained hands-on experience in system development and project management. He is now the Head of Technology and Innovation at Serunai Commerce Sdn. Bhd., where he contributes to building halal technology solutions that help consumers make informed choices. His experiences have taught him the importance of planning, teamwork, and continuous learning lessons. He hopes to share with students as they shape their own futures.



System Development

System development is the entire process of defining, designing, testing, and implementing a software application. Think of it like building a house: A usual example of this is we don't start laying bricks and we need a blueprint first for designing a product. The concept can be categorized into network security, data engineering, graphics and multimedia and bioinformatics:

- Network security is a key factor in creating a secure systems by securing a network architectures such as protecting company's database from being illegally accessed by intruders.
- Data engineering can be broadly defined as structuring pipelines with system planning requirements.
- Graphics and multimedia can be defined as complex rendering engines as it encompasses massive software system. The multimedia designs are widely used in entertainment, marketing and user's digital platform experiences.
- Bioinformatics carries certain connotations in some types of processing biological data with robust algorithm needed.

Project Management

Guides the project step by step

Project management provides clear steps on how to plan, manage, and complete a project properly through the software development life cycle.

Controls chaos

It helps keep the project organized and prevents confusion, just like doing things in the correct order when cooking or packing.

Handles project complexity

Software projects are more complicated than daily tasks because they involve different tools, libraries, and technologies. Project management helps manage this complexity.

Supports teamwork

Most projects are done in teams, not individually. Project management helps coordinate team members and ensures everyone knows their role.

Application in Graphics and Multimedia Software

Overview

In the field of Graphics and Multimedia, System Development and Project Management are critical because these projects often bridge the gap between creative art and technical engineering.

Applying SDLC in Graphics

- Requirement Gathering: In graphics, this involves defining the visual artstyle, target platform and performance constraints.
- Design: This phase focuses on storyboarding, character modelling and designing the rendering before writing code.
- Implementation: Developers write the code for shaders and physics engines, while artists create the visual assets.
- Testing: The software undergoes visual debugging to fix artifacts, glitches, and optimize rendering times.

Role of Project Management

Project management is vital in graphics because these projects require collaboration between diverse roles. By "reducing noise", a project manager ensures that the artistic assets are compatible with the technical code and that the project meets its deadlines.

Reflections

Dhivyesh

From this talk, I have gained new insight that just having coding skills wouldn't be sufficient to survive the current job market. System development and project management skills are essential to remain competitive and be chosen by top employers. So moving forward my focus would be on enhancing my communication and leadership skills, learning how to develop systems according to SDLC and pursue hobby projects with a team.

Aliff

Out of the industrial video, I just realized that most people do know how to code, but don't know how to implement their projects. One reason why the system development have declined is that it is not just a chapter in their program, instead a core language for their future careers. I need the system design skills in my life where I would develop one design architecture that must be planned on how it is about to be executed. The speaker also brought to me a big motivation where I will never stop learning the art of computer science.

Zahin

After hear from this talk, I feel more aware of how important planning and teamwork are in real software projects, HJ. Abdul halim also explained that project management helps control chaos and organize complex tasks, which made me realize that building a system is not just about coding. It also showed me the bigger picture of the tech industry, including workplace culture, continuous learning, and balancing innovation with reliable practices. It motivated me to improve both my technical skills and teamwork abilities that will help me do well in the field later.

Muaz

This talk made me realize coding is not the key to my future success, but rather one of the tools that will contribute to me reaching my dreams. I learned that ultimately, in any industry, good communication and teamwork superceeds individual skills and a good team coordination is what leads many tech industry giants to their success. Moving forward, I plan not to just focus on honing my coding skills, but also improve my communication and management skills.

Faiz

This talk really opened my eyes to the fact that coding alone isn't enough for a successful career in tech. Planning, teamwork, and project management are just as important to bring ideas to life. I feel motivated to keep learning, improve my skills, and work well with others so I can succeed in both my studies and future career.

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