ASSIGNMENT 3: ACADEMIC WRITING REPORT

Task: Academic writing on Industry Talk 2

Tittle: Project Management dan System Development

Topic Covered in this Report:

1. Speaker's Professional Experience
2. Concept of project management and system development
3. Application in Computer Science program
4. Basic skills required by the industry
5. Reflection
6. References

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Description of the speaker's experience

During the talk, Tuan Hj. Abdul Halim shared his experience in collaborating with companies and trying to develop website and multiple projects. He shared his professional experience from the perspective of an industry practitioner who has been directly involved in managing projects and overseeing system development in real working environments. He explained that throughout his career, he has worked with different teams and clients, which exposed him to real challenges such as meeting deadlines and ensuring that systems developed meet user requirements.

What is project management and system development.

Project management is the application of knowledge, skills, tools, and techniques to manage project activities in order to meet project requirements. It's the practice of planning, organizing, and executing the tasks needed to turn into a tangible product or service. Some of the key aspects of project management including defining project scope, identifying deliverables, managing risks, and effective communication between teams. While system development is known as SDLC, it is a formal process for the development and maintenance of information systems. The process is a very structured pursuit with clearly defined stages that take the developmental journey from concept to final implementation.

How the project management and system development has been used in bioinformatics

Bioinformatics work usually goes through several stages, such as preparing data, building the analysis system, and evaluating the results. Software development plays a key role in helping researcher by using a structured approach to system development. Project management also helps bioinformatics students and researchers stay organised, manage time effectively to keep track the data and results. It is especially useful in avoiding common problems in Final Year Projects, such as choosing unclear or unrealistic topics, achievable tasks and ensuring the work is completed within the given timeframe.

Basic skills required for computer science and skills required by the industry

Programming and coding are key skills that every Computer Science student needs, as they form the foundation of many areas in the field. Skills such as problem-solving, analytical thinking, and the ability to work with data structures, algorithms, and version control tools like GitHub help students develop efficient solutions and better collaboration, reduce misunderstandings, and help teams work together effectively to achieve common goals.

Reflection

KHADEEJAH ZAFEERAH: For the next four years, I aim to succeed in computer science by staying consistent in my learning and actively joining coding and technology programmes such as hackathons. Through regular practice and participation in these activities, I will strengthen my programming, problem-solving, and teamwork skills while gaining real-world experience so that I can contribute effectively to the technology sector in the future.

NURKARMILA: My plan for the next four years is to close the gap between what is taught in school and what is needed in the real world by consistently putting what I learn into practice." I will graduate with the technical skills and flexibility I need for a successful engineering career by learning core algorithms, building a portfolio of personal projects, and getting internships.

NUR FATIN NABILA:Over the next four years, I plan to succeed in computer science by staying committed, curious, and open to learning. I will gain hands-on experience through projects outside class, explore new tools and articles, and continuously improve my time management, communication, and teamwork skills to grow and succeed.

LOGAPRIYAH SIVAKUMAR:In the next four years, I want to succeed in computer science by staying consistent and slowly building my skills. I understand that computer science takes time to learn, especially programming, so I will keep practising even when it feels challenging. I plan to pay attention in class, complete my work honestly, and improve by learning from my mistakes. By managing my time properly and staying determined, I believe I can become more confident in my abilities and achieve success in this course**.**

References

Ganney, P. S. (2022). Project Management1. In Project Management1 (2022nd ed., pp. 349–363). https://doi.org/10.1201/9781003316244-17

Project Management Institute. (2024). *What Is Project Management, Approaches, and PMI*. Pmi.org. https://www.pmi.org/about/what-is-project-management

Sentinelone. (2024, October 16). *What is Systems Development? Key Concepts Explained*. SentinelOne. https://www.sentinelone.com/cybersecurity-101/cybersecurity/what-is-systems-development/