UTM
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TECHNOLOGY AND INFORMATION SYSTEM

TOPIC: SYSTEM DEVELOPMENT @ CREDENCE (TM SUBSIDIARY)

LECTURER'S NAME: DR HALINAWATI

REPORT ON INDUSTRY TALK 2

PREPARED BY:

NAME	MATRIC ID
MUHAMMAD NABIL DANISH BIN AHMAD KHIR	A23MJ8007
SALMA ANNIS BINTI ABDUL RAHMAN	A23MJ8005
NUR UZMA UMAIRA BINTI AWANG HARISFADILLAH	A23MJ8025
MUHAMMAD SYAFI BIN MOHD FAUZI	A23MJ801
MUHAMMAD HADI BIN AB LLAH	A24MJ5011
ADAM ISKANDAR BIN MAZLAN	A23MJ8056

Description of the System Development in Credence

Originating from the speaker's academic experience in Computer Science (Data Engineering) at UTM from 2016 to 2020, Credence is a progressive organization that specializes in analytics and AI operations. During industrial training, the speaker began her work at TMONE as a Social Media Data Analyst. Up to 2022, she had positions as a Social Media Data Analyst and Data Engineer. Building professional relationships and pursuing ongoing education are now essential for the Analytics Delivery and AI Operation specialist position at Credence. For Credence, analytics entails employing procedures like data gathering and transformation to methodically analyse data for insightful information. The business thrives on a variety of data sources, such as external platforms and social media. Credence prioritizes a positive work environment that promotes candid communication, ongoing education, and achievement celebration. Credence appreciates a range of analytics career pathways, from business analysts to data scientists. In essence, Credence is a leader in analytics, encouraging innovation and empowering its employees in a constructive, collaborative work atmosphere.

Technology and tool use in Credence's system development.

Credence's system development is built on a combination of technologies that support data management, processing, visualization, and automation. The system utilizes databases such as PostgreSQL, ClickHouse, and Druid to handle structured and analytical data. For visualization, it integrates tools like Tableau, Power BI, Metabase, and Superset, enabling data analysis and reporting. Data pipelines and workflows are managed through ETL/ELT tools, including Apache Airflow and Apache Spark, ensuring seamless data transformation and movement. Additionally, programming languages such as SQL, Python, and Bash are used for system development, automation, and database management. Together, these technologies form a comprehensive and efficient system infrastructure that supports Credence's operations.

Reflection

Nabil Danish: I will follow a structured academic path to become a system developer. By pursuing a degree in Computer Science or Software Engineering, I will develop a strong foundation in programming, system architecture, and problem-solving. I will take every opportunity to engage in internships and real-world projects, ensuring that my theoretical knowledge is backed by practical experience.

Salma Annis: I will take advantage of online courses, coding tutorials, and open-source projects to sharpen my skills. By dedicating time daily to programming, I will gain expertise in system design, cloud computing, and databases. Additionally, I will contribute to GitHub projects, collaborate with other developers, and work on my own applications. By the end of four years, I will have built a strong portfolio and be well-prepared for professional opportunities in system development.

Uzma Umaira: I will explore specializations such as cloud computing, DevOps, or cybersecurity, aligning my learning path with industry demands. By obtaining certifications in AWS, Microsoft Azure, or Linux, I will gain a competitive edge in the job market. My goal is to go beyond general development and become an expert in a specific domain, ensuring that my skills are highly valuable and in demand. Through continuous learning and hands-on projects, I will refine my expertise and establish myself as a specialized system developer.

Muhammad Syafi: I will actively seek internships, freelancing projects, and open-source contributions. By working on diverse projects, I will develop problem-solving skills, adaptability, and hands on expertise in system design and development. This approach will allow me to learn directly from industry professionals while also building a strong portfolio that showcases my capabilities. By continuously improving through feedback and collaboration, I will position myself as a skilled and experienced system developer.

Muhammad Hadi: I will fast-track my journey into system development by enrolling in a coding bootcamp. Through an intensive, hands-on curriculum, I will develop expertise in programming languages, system architecture, and real-world applications. The structured training and mentorship provided by the bootcamp will accelerate my learning, ensuring that I am job-ready within a shorter period. Beyond the bootcamp, I will continue refining my skills through projects and industry certifications. By immersing myself in a tech-driven environment, I will gain the confidence to thrive as a system developer in the coming years**.**

Adam Iskandar: Over the next four years, I will focus on building a strong technical foundation, applying my knowledge in practical projects, and staying updated with industry trends. I understand that technology evolves rapidly, so I will cultivate a mindset of continuous learning. Whether through online courses, certifications, or mentorship, I will remain committed to improving my skills. My passion for system development will drive me to explore new tools, frameworks, and methodologies, ensuring that I stay relevant and innovative in the field.