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credence

TM

CREDENCE: MALAYSIA'S FUTURE OF CLOUD SERVICE

SPACE-X REPORT ON INDUSTRY TALK 2

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SYSTEM DEVELOPMENT @ CREDENCE (TM SUBSIDIARY)

HISTORY

6 July 2022 – Telekom Malaysia Berhad (TM) today launched Credence. It is a new cloud and digital services company focused on expanding the capabilities of enterprises and the public sector in their digital transformation journey.

Credence is led by Krish Datta, an experience technology leader that have been with TM Berhad since 2021. .By making use of TM established resource and forming strong strategic partnerships with major company such as VMware , AWS and Huawei the put themselves in a well positioned place for them to accelerate Malaysia's digital transformation journey.

Credence cover up thing from tech infrastructure to business insights, cloud advisory, IT landscape migration, SaaS, managed services as well as analytics and insights .

As they are aiming in keeping Malaysia's Digital Malaysia, they are choosing their lineup from the best as they are developing technology-skilled for the next generation

Reference: Telekom Malaysia Berhad (2022, July 6). Credence, TM's new cloud and digital services company, to empower enterprises' digital capabilities – from infrastructure to insights. Telekom Malaysia Berhad News. Retrieved from https://tm.com.my/news/tm-launch-credence

DESCRIPTION OF SYSTEM DEVELOPMENT

System development is the process of creating, designing, implementing, testing, and maintaining information systems, software applications, or other complex systems to fulfill specific business or organizational requirements. The goal of system development is to create reliable, efficient, and scalable solutions that meet the needs of users and stakeholders. This process typically includes various stages, such as planning, analysis, design, implementation, testing, deployment, and ongoing maintenance and support

Credence is developing their project using open source tools such as Clickhouse, PostgreSQL and Druid. To match customer preference they using Visualization tools like Tableau, PowerBI, Superset and Metabase. For ETL/ELT processing and streamlining data they primarily use Apache Airflow.

They mainly use SQL as they programming language as it is more efficient for their data engineers to do their works. We can see that Credence is commited in delivering best service to their customer as they are using an excellent technology stack to develop their system .

TECHNOLOGY AND TOOLS USE IN SYSTEM DEVELOPMENT

Technology and tools used by Credence in system development to develop their Database/OLAP are PostgreSQL, ClickHouse and Druid . These tools can make their database development to have more efficiency and matching up their primary programming language.

To match up their customer preference and make their system more interactive, they use a lineup of Visualization tools such as Tableau, PowerBI, Metabase and Superset.

For fluidity of data processing of Credence's system, they are using Apache Spark and Airflow to do ETL/ELT.

Finally, as for their primary programming language to develop the system, they are using SQL, Phyton and Bash Syntax to enhance their coding.

REFLECTION

MUHAMMAD ZULQARNAIN BIN ALI (A23CS0139)

To become a system developer in the next 4 years, I will enhance my programming skills. Becoming a system developer involves gaining proficiency in programming languages, understanding system architecture, and developing problem-solving skills. I will strive to master languages commonly used in system development, such as Java, C++, Python, or C#.

ZIAD YASSER MOHAMED (A20EC4075)

A database is one of the vital parts of a system as it helps to manage data more easily and securely. Therefore, I will familiarize myself with popular database management systems such as MySQL, PostgreSQL, Oracle, and Microsoft SQL Server

MOAZ MOHAMED SHABAN (A23CS0019)

It is necessary to understand operating systems in order to become a system developer. Understanding operating systems requires a combination of education, hands-on experience, and continuous learning. So, I will gain a deep understanding of operating system concepts, including process management, memory management, file systems, and networking

SIA JUN YI (A23CS0178)

The security aspect is one of the most important components of a system, as it protects systems from vulnerabilities. So, in order to become a system developer in the next four years, I will focus on the cybersecurity domain. I plan to take specialized courses in cybersecurity, which will help me understand concepts such as encryption, firewalls, intrusion detection/prevention, and secure coding practices.

TAN LI JI (A23CS0185)

To become a system developer in the next four years, I will focus on web technologies (HTML, CSS, JavaScript) as many systems have web-based interfaces. Additionally, I will learn a server-side language such as Python, Ruby, Java, or Node.js. Then, I will conduct research on the basics of web development, including how the web works, client-server architecture, HTTP/HTTPS protocols, and RESTful APIs.

YOUSSEF ABDELRAHMAN ABAKER (A22SP9172)

In my opinion, structured data and algorithms will help greatly to optimize system performance. So, if I become a system developer in the future, I should build a strong understanding of fundamental computer science concepts, including algorithms, data structures, complexity analysis, and object-oriented programming. I will delve deep into algorithms, focusing on sorting, searching, graph algorithms, dynamic programming, and other key concepts, and learn various data structures like arrays, linked lists, stacks, queues, trees, and hash tables.