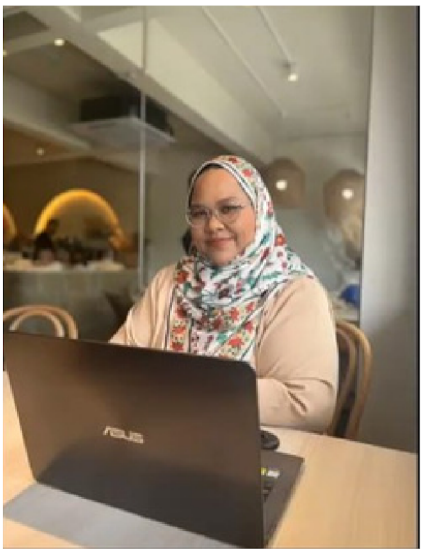
UTM
UNIVERSITI TEKNOLOGI MALAYSIA

TM

credence
Transformation Done Right



SYSTEM DEVELOPMENT @ CREDENCE TM SUBIDAIRIY

PREPARED BY

Swift Tech
A23CS5025 Tan Zhen Li
A23CS5017 Tan Zheng Yu
A23CS0062 Chew Chuan Kai
A23CS5028 Chen Wei Jay Nickolas
A23CS4008 Ghadeer Mahmoud Mohammed
A23CS0287 Ammar Abdulrahman Anaam Mudhsh

SYSTEM DEVELOPMENT

DESCRIPTION 

As Ms. Qistina mentioned first, the business analysts will collect data from various sources, such as open sources and social media. They will then present it to data engineers, who use the platform created by the data architects to transform the data into meaningful models. These models can be utilized by data analysts to make predictions and visualizations. The predictions and visualizations are subsequently presented to the management, enabling them to make insightful decisions based on the data.

After that, the system features are presented to the stakeholders to determine their satisfaction. If not satisfied, the BI developer will have to convey the comments to the data engineer for inclusion in the data for the next system development cycle. Meanwhile, data scientists work in the background, discovering new models and technologies to improve the efficiency of data collection, modeling, and analysis.

HISTORY 

In 2016, Ms. Qistina Azman pursued her Bachelor of Computer Science in Data Engineering at UTM. During the final year of her degree, she undertook an industrial training program at TMONE, where she excelled as a social media data analyst. Following her graduation with honors from UTM, Ms. Qistina seized the opportunity to continue her journey with TMONE, initially in the role of a social media data analyst. Her dedication to growth and improvement led her to be recommended by her supervisor for a position as a data engineer within the company, a role she successfully embraced until 2022.

Ms. Qistina Azman's commitment to self-improvement didn't waver, prompting her to explore new horizons. She transitioned to Credence, a company founded to meet the demands of the cloud and analytics market. At Credence, she has been contributing as an analytics delivery specialist in AI operations, demonstrating her continuous pursuit of excellence that extends into the present day.

SYSTEM DEVELOPMENT

TECHNOLOGIES AND TOOLS USED

Qistina Azman's insights on the different tools and technologies used in system development shed light on the vast array of resources available to developers. The use of Github, Visual Studio Code, Tableau, PowerBi, Metabase, and Superset in system development is becoming increasingly common. However, it's not just about the tools; people also use specific technologies in database/OLAP like PostgreSQL, ClickHouse, and Druid to aid in system development.

In terms of Visualization Tools, Tableau, PowerBI, Metabase, and Superset are the most commonly used tools. Airflow and Spark have also become essential in ETL/ELT. Airflow can help obtain data and transform it into the required format. It is interesting to note that SQL and Python are considered to be the most important programming languages in system development. Therefore, it is crucial for developers to have a strong grasp of these two languages. Additionally, data engineers require one extra programming language, which is Bash Syntax. Overall, Qistina Azman's insights provide a comprehensive understanding of the tools and technologies used in system development.