

SYSTEM DEVELOPMENT @ CREDENCE (TM SUBSIDIARY)



GROUP MEMBER:

- AHMAD MUAWYA SUFYAN FAKHRUDDIN (A22EC4023)
- OMAR ABDELMONEM HANAFY ABDELAZIZ MOHAMED (A22EC4012)
- KHALED OSAMA MOHAMMED SAMY ABDELAZIZ IBRAHIM TAHOON (A22EC4033)
- LIM CHEN XI (A23CS0103)
- ONG YA SIAN (A23CS0260)

Content:

- Introduction to Credence
- Description of the system development
- History of System Development
- Technology and tool use in Credence's system development
- Reflection

Introduction to Credence (TM Subsidiary)

Credence is a subsidiary of Telekom Malaysia which a new cloud and digital services company that aims to deliver outstanding experience for our customers. This cloud and digital services powerhouse focus on building robust and adaptable systems, drawing upon its rich history, diverse technological expertise, and innovative toolset.

Description of the system development

System Development born from TM's recognition of the critical role cloud and analytics play in today's digital landscape, Credence emerged in 2022. Since then, it has rapidly honed its system development capabilities, offering a comprehensive suite of services tailored to meet the unique needs of enterprises across various industries.

The methodical process of building and managing information systems to fulfill requirements or address issues is referred to as system development. It goes through several phases, including design, analysis, planning, implementation, and maintenance.

System development is a methodical process aimed at building and managing information systems to meet specific requirements or address issues. It involves several phases, including design, analysis, planning, implementation, and maintenance. Over time, the development approach has evolved from linear models like the Waterfall model to more collaborative and iterative methods such as Agile and DevOps.

History of System Development:

Initially, system development followed a linear progression with the Waterfall model, but it has since shifted to more flexible and adaptive methodologies. The technological growth in system development has been rapid, transitioning from early programming languages like C and Fortran to modern languages such as Python and JavaScript, along with frameworks like React and Angular.

Technology and tool use in Credence's system development

- Programming Languages: A wide range of applications use flexible languages like Python, JavaScript, Java, SQL and Bash Syntax
- Frameworks and Libraries: To expedite development processes, make use of frameworks like Django, Angular, and React.
- Methodologies: For effective and iterative development, choose DevOps, Agile, or Scrum.
- Cloud computing: Making use of AWS and Azure cloud services to increase accessibility and scalability.
- Data base and OLAP such as PostgreSQL, ClickHouse and Druid.
- Visualization tools such as Tableau, PowerBI, Metabase and Superset
- ETL/ELT such as Airflow and Spark

REFLECTION

TAHOON:

Over the next four years, my focus as a system developer is on continuous adaptation and learning. I aim to stay updated on evolving technology, foster innovation, and embrace novel approaches. Working collaboratively with diverse teams and pursuing certifications will align technology initiatives with business goals. My commitment to ethical coding, social responsibility, and skills in project management, leadership, user-centric design, problem-solving, professional networking, and continuous improvement defines my development into a capable and accountable system developer.

OMAR:

My vision for the next four years as a system developer centers on continuous adaptation and learning. The plan includes deepening technical expertise by mastering new technologies, nurturing creativity and problem-solving skills, cultivating leadership potential through active roles in leading teams, and embracing a growth mindset through lifelong learning. The goal is to become a well-rounded professional with a blend of technical proficiency, creativity, leadership, and a commitment to innovation in the ever-evolving field of technology.

AHMAD :

I envisions a comprehensive development over the next four years as a system developer. The plan includes deepening technical expertise by mastering new technologies and refining existing skills through hands-on projects and collaborations. Additionally, the focus is on nurturing creativity and problem-solving abilities, stepping outside the comfort zone, and collaborating with diverse minds. Leadership potential is to be cultivated by actively leading teams, managing projects, and mentoring junior developers. The commitment to a growth mindset involves embracing continuous learning through conferences, workshops, and online communities. Overall, the goal is to become a well-rounded system developer with technical proficiency, creativity, leadership qualities, and a commitment to lifelong learning.

YASIAN:

Over the next four years, my focus is on building a strong foundation in the basics of system development. This includes mastering at least one programming language and gaining a deep understanding of development principles. To gain hands-on experience, I plan to participate in club activities like Robocon or Airost, collaborating on team projects to apply theoretical knowledge in real-life situations. Seeking guidance from professionals will further enhance my practical skills. Additionally, staying updated on industry trends through blogs, technical news, and GitHub projects is crucial to complement university learning, which may lag behind the rapidly evolving technology landscape.

CHEN XI:

Over the next four years, my goal is to become a dynamic systems developer by focusing on continuous learning and strategic development. Deepening my technical expertise includes mastering new technologies and refining existing skills through hands-on projects. Cultivating creativity requires improving critical thinking and collaborating with diverse minds to find innovative solutions. Developing leadership skills includes proactively seeking opportunities to lead teams, enhancing communication and conflict resolution skills. Commitment to lifelong learning through conferences and workshops. This holistic approach aims to make me a well-rounded professional who contributes to the advancement of the technology field.