UNIVERSITI TEKNOLOGI MALAYSIA

Group Report – Group "Samurai"

Title: Insights into System Development @ Credence (TM Subsidiary)

Representative Picture: **Date:** 28 dec 2023

Topics Covered:

1. System Development Overview at Credence
2. History of System Development at Credence
3. Technology and Tools Used
4. Reflections from the Talk

Group Members:

1. Hassan Saad (A23MJ3005)
2. Mohammed Usman (A23MJ3008)
3. Kahlan Sultan (A23MJ4021)
4. Abdulrahman Siad (A23MJ3061)
5. Abdulrahman Rami (A23MJ4014)

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Credence, a subsidiary of TM, has established itself as a leader in system development by leveraging cutting-edge technology and innovative approaches to cater to modern needs. This report delves into the history of Credence, its technological advancements, tools employed in system development, and key takeaways from their practices.

History of Credence

Credence was founded as a subsidiary of TM with a mission to enhance digital transformation in Malaysia. Over the years, the company has played a pivotal role in the telecommunication and IT sectors, ensuring seamless integration of modern solutions into legacy systems. Its initial projects involved designing robust communication frameworks, and today, Credence stands as a hub for innovation and excellence.

System Development at Credence

Credence adopts the Agile methodology for its system development processes, ensuring adaptability and efficient delivery. The process begins with identifying user requirements through extensive consultations and market analysis. Development is carried out in iterative cycles, which include planning, designing, coding, testing, and deployment. This methodology ensures that stakeholders are continuously involved, leading to highly customized and efficient solutions.

Technology and Tools Used

Credence utilizes a range of advanced technologies and tools to deliver state-of-the-art systems:

- **Programming Languages:** Python, Java, and C++ for backend development.
- **Cloud Platforms:** AWS and Microsoft Azure for scalable and secure solutions.
- **Frameworks:** React and Angular for frontend development.
- **Version Control:** GitHub and GitLab to streamline collaborative development.
- **Testing Tools:** Selenium and Postman for automated testing and API validation.

These tools allow Credence to maintain a high standard of quality while adhering to project timelines.

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Reflections from the Industry Talk:

Hassan Saad (A23MJ3005)

The talk emphasized the importance of adaptability in system development. My aim is to become a system developer who is versatile and capable of handling dynamic challenges. By mastering Agile methodologies and continuously updating my technical skills, my envision is contributing to projects that blend innovation with practicality.

Mohammed Usman (A23MJ3008)

I was inspired by Credence's focus on cloud technologies. I plan to specialize in cloud computing and cybersecurity, ensuring that future systems are both scalable and secure. My goal is to design solutions that address contemporary challenges while anticipating future needs.

Kahlan Sultan (A23MJ4021)

The emphasis on collaboration and teamwork resonated deeply with me. I intend to focus on mastering collaborative tools like GitHub and fostering a team-oriented mindset. My vision is to lead development teams that deliver impactful and user-friendly solutions.

Abdulrahman Siad (A23MJ3061)

I was intrigued by the use of automation in system testing. I plan to specialize in test automation tools such as Selenium, ensuring that systems are rigorously tested and reliable. My long-term goal is to enhance the quality assurance processes in system development.

Abdulrahman Rami (A23MJ4014)

The integration of cutting-edge technologies inspired me to delve deeper into artificial intelligence and machine learning. I aim to develop intelligent systems that not only meet user requirements but also anticipate and adapt to future trends.

Conclusion

The industry talk at Credence highlighted the ever-evolving nature of system development and the importance of staying ahead of technological advancements. Each group member has drawn valuable lessons and is determined to carve a path toward becoming a proficient system developer in the next four years.