WEDNESDAY, 07 JANUARY, 2026

INDUSTRY VISIT TO JOHOR CORPORATION

Introduction

On 7 January 2026, students from Section 02 of the Technology and Information System course conducted an industry visit to the corporate headquarters of Johor Corporation (JCorp), located at Level 24, Menara KOMTAR, Ibrahim International Business District (IIBD), 80888 Johor Bahru. This academic engagement was meticulously designed to provide students with a comprehensive understanding of the practical integration of advanced information systems within a large-scale, diversified conglomerate.

The main objective of the visit was to analyze JCorp's Digital Transformation Journey, with a specific focus on the transition from traditional infrastructure to a "Cloud-First" and "AI-Driven" ecosystem. For students specializing in this course, this engagement offered critical insights into the integration of Artificial Intelligence (AI), Cloud Computing, and Data Engineering as tools for enhancing organizational agility. By interacting with industry leaders, students were able to synthesize theoretical course concepts, such as process automation and data governance with the real-world operational strategies of a leading investment holding company.

Company Background

Established in 1968, Johor Corporation (JCorp) is Johor's primary economic development engine. Guided by the motto "Membina & Membela" (To Build and To Nurture), it has evolved into a technology-driven sustainable venture builder managing a multi-billion ringgit portfolio focused on wealth creation and social distribution.

JCorp operates through four strategic pillars: Agribusiness, Healthcare, Food Services, and Real Estate, maintaining a massive Southeast Asian footprint. Under its JCorp 3.0 plan, the firm adopted a "Digital-First" ecosystem, featuring a 3-2-2 hybrid work model (3 days office, 2 days WFH) supported by 100% cloud infrastructure and AIOps. This reinforces JCorp's role as an "Agentic Enterprise," leveraging unified data to drive global innovation.

Objective of the Industry Visit

The first objective of the industry visit was to provide close-up exposure to the operations of Johor Corporation (JCorp). The organizational workflow and operational structure were observed throughout the visit. Attention was given to how daily operations are supported by digital platforms. The function of the command centre in monitoring activities was also explained. This exposure allowed students to understand how large organizations manage operations efficiently. The second objective was to enhance understanding of computer-assisted systems implemented in JCorp. Students were introduced to the use of ServiceNow as an operational monitoring platform. The role of analytics in supporting data-driven decision-making was highlighted. Exposure was also given to the application of Artificial Intelligence (AI) and automation systems. These technologies are used to improve efficiency and optimize business processes. The third objective was to expose students to the integration of computing and networking technologies in an industrial environment. The use of Cloud Computing and unified platforms was explained. Data architecture and network infrastructure were discussed in relation to system performance. Emphasis was placed on security and monitoring to ensure reliable operations. This objective helped students understand how computing and networking work together to support digital transformation.

Group Members :

Nur Hanani Sazwani binti Muhammad Helmi Wan (A25CS0313) | Ng Xuan Yee (A25CS0291) | Nur Nazirah Hanis binti Nazri (A25CS0319) | Humayra' binti Zulqarnain (A25CS0068)

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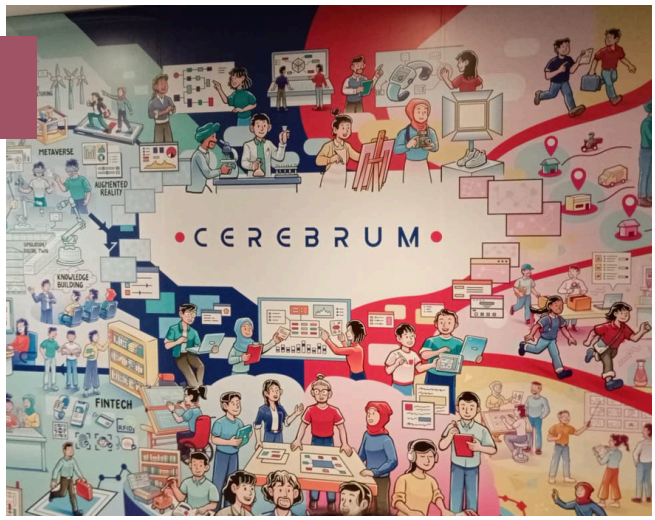

Key Learning Outcomes

Through the industrial visit to JCorp, valuable learning outcomes were achieved. New knowledge was gained regarding the role of JCorp in many different sectors such as agribusiness, healthcare and wellness, food and restaurant, real estate and infrastructure, and waqaf. A cloud-first strategy and future developments using Artificial Intelligence (AI) are prioritised to optimise staff performance for maximum productivity and data management. Some include innovative solutions such as JCorp AI LLM Development and Command Centre powered by the company itself to empower business operations and strategic planning in line with its "AI-driven" strategy.

A clearer understanding was developed on how computing technologies are applied in large-scale organisational companies such as JCorp, particularly in data managing, system integration, and decision-making especially with the utilisation of AI through the processes. For example, when its AI Command Centre is prompted, AI validates the ideas, concepts, and prototypes to enhance system operations while maintaining quality output. In addition, awareness was emphasised on the importance of cross-functional collaboration, where information technology (IT) functions alongside corporate management to improve operational efficiency and organisational performance.

Role of Computing and Information Systems

The analysis of JCorp's operational infrastructure highlights the implementation of a unified platform architecture that supports the organization's transition toward an agentic enterprise model. This approach emphasizes automation, cloud security and centralized system control. The computing environment operates as a hybrid ecosystem, where AI-enabled tools such as Copilot are utilized by approximately 300 users, while a centralized command centre applies analytics to monitor operations and network traffic. At the enterprise level, ServiceNow is used to manage workflows and system monitoring, while the RITE framework supports structured ideation and the development of digital solutions. Machine Learning Operations (MLOps) play a key role in enabling automation initiatives, including the Dark Factory concept, where manufacturing processes are largely managed by robotic systems with minimal human intervention. These systems are supported by a data mesh architecture that organizes data into value-driven data products. Generative Business Intelligence tools further enhance this architecture by enabling natural language interaction with databases that allow business values to be derived from data more effectively.

Skills and Knowledge Development

Exposure was given to technical concepts related to data management, system development, and project management. Technical skills including vibe coding, structured workflows, understanding cloud and AI applications, and proficiency in programming languages like java for back-end development were specified and understood, highlighting the importance of compliance to industry standards. Furthermore, the importance of sales skills or entrepreneurship is essential to become a project manager, emphasizing professionalism and workflow within an organization. Other soft skills were also highlighted by the speakers, Mr. Budiman Bujang and Mr. Ahmad Yusrin Mohamed, namely professional communication, brand advocating, teamwork and proactive independent learning. Overall, the visit contributed to a broader and deeper understanding of both technical and non-technical competencies required to qualify for industry standards.

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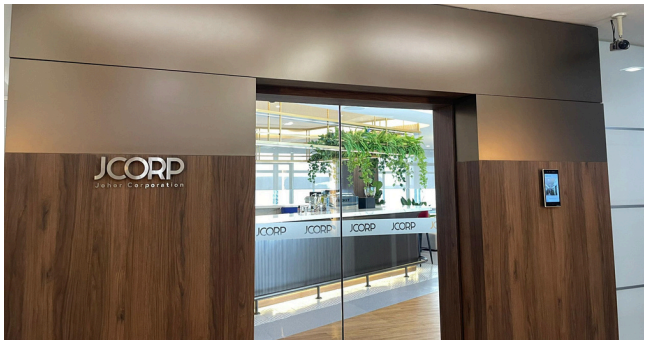
Relevance to Academic Studies and Career

The industry visit connected students' coursework in Computer Science (Data Engineering) to real-world applications by highlighting AI, enterprise systems and digital transformation to organisational operations. It enhanced career awareness by providing insights into job functions, such as project manager and analyst, essential skills, such as soft skills and problem-solving skills, and professional attributes valued in technology-related roles. The experience also sparked potential interest in careers in enterprise system management, data analytics and industrial computing, highlighting pathways where students can apply their academic training to future employability.

Acknowledgement

Sincere appreciation is extended to Johor Corporation (JCorp) for providing students the opportunity to visit the company and gain firsthand exposure to real-world organisational operations. The visit enabled students to acquire valuable knowledge and experience, particularly in the fields of IT, including Artificial Intelligence (AI) and Data.

Sincere gratitude is also extended to Dr. Aryati binti Bakri for her efforts in coordinating the industry visit, as well as to the organisers and staff whose dedication and contributions were crucial in ensuring the success of the visit.



Conclusion

Overall, the industry visit achieved its objectives by providing students with exposure to JCorp's operational environment and demonstrating how digital platforms, computer-assisted systems and integrated computing networks support organisational efficiency. This experience also highlighted the importance of industry exposure for students as it allows them to link academic knowledge with real practices, gain awareness of current technological applications and build relevant competencies for future careers.

Reflection

NG XUAN YEE
A25CS0291

The visit to JCorp successfully bridged the gap between classroom theory and large-scale industrial implementations. Observing their "Cloud-First" strategy and the implementation of AIOps first hand deepened my understanding of the power of large-scale information systems for organizational agility. This has significantly sharpened my career focus in Data Engineering, as I now recognize it as the backbone for modern AI. I leave inspired to pursue professional certifications and embrace a proactive, "agentic" mindset to remain competitive in the rapidly evolving digital economy.

NUR NAZIRAH HANIS BINTI NAZRI
A25CS0319

This visit broadened my perspective on the importance of acquiring skills related to advanced technologies, particularly AI, to enhance workplace efficiency and remain relevant in the job market. Moving forward, I should continuously develop myself through self-learning, such as exploring new tools or pursuing relevant professional certifications.

NUR HANANI SAZWANI BINTI MUHAMMAD HELMI WAN A25CS0319

This industry visit to Johor Corporation (JCorp) provided valuable exposure to how computing and digital systems are applied in a real industrial environment. The visit enhanced my understanding of enterprise systems, data analytics, and cloud-based technologies used to support organizational operations. It also increased my awareness of the importance of technical skills and continuous learning to remain relevant in the industry. Overall, the visit strengthened my interest in the computing field and highlighted the value of industry exposure in preparing students for future careers.

HUMAYRA'BINTI ZULQARNAIN
A25CS0068

Having JCorp as one of the industries arranged for Data Engineering site visits is very special, as the visit made me realise the importance of self-learning and exploring technology trends to remain relevant in the industry, especially when the visit overall emphasized on AI, cloud-first services, and agentic coding. From the visit, it made me aware of the significance of focusing on academic excellence, alongside professional certificates and personal projects for professional development and to appeal to large companies or conglomerates such as JCorp.

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