MMC JOHOR PORT UTM

INDUSTRIAL VISIT 2

A visit to JohorPort

Summary

The industrial visit to Johor Port provided valuable exposure to real-world port operations and the role of technology in logistics. Guided by Mr Mohamad Taufik, Business Application Department Manager, we explored the port area and observed many ships involved in international trade, helping us understand the large scale and importance of port activities. The visit also highlighted how Johor Port uses systems such as Terminal Operating Systems, low-code platforms, and reliable IT infrastructure to ensure smooth, efficient, and secure operations. Overall, the experience successfully connected classroom learning with real industrial practices and enhanced our understanding of how technology supports global logistics.

TECHNOLOGIES USED

Load balancer

To maintain application by commanding traffic away from overloaded servers.

Computer Graphics

GUI (Graphical User Interface) that is user-friendly to be used as advertisement and simulation with 3-D model and animation techniques.

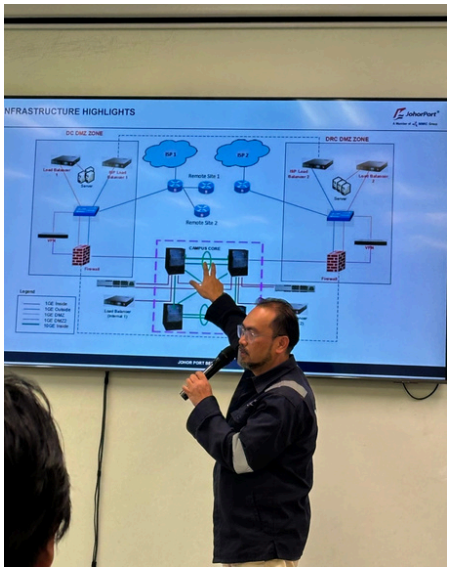
VMT (Vehicle Mounted Terminal)

Purposed to withstand harsh warehouse condition, shock and vibration for efficient crane functions.

INDUSTRIAL VISIT 2

Johor Port Embraces Low-Code Development to Speed Up Digital Transformation

Johor Port is using low-code platforms to build apps faster, cutting development time and letting non-IT staff help create tools for daily operations.



Metrocluster and Redundant Systems Ensure Near-Zero Downtime for Critical Port Operations

The port uses a Metrocluster system to prevent shutdowns, automatically switching to backups if hardware fails. With 24/7 security monitoring, it ensures operations never stop.

Reflections

Bridging Theory and Reality

The visit to Johor Port was an eye opening experience that bridged the gap between classroom theory and real world application. Witnessing the scale of port operations, we realized that ICT is the backbone of modern logistics. The seamless integration of the Terminal Operating System (TOS) with ground operations demonstrated how code and data directly impact physical efficiency and the global supply chain.

The Importance of Reliability

We were quite impressed by the emphasis on system reliability and data integrity. In a high stakes environment where downtime can cause massive financial losses, the stability of IT infrastructure is second to none. This made us realize the importance of having a good team of ICT members to maintain a stable operation system.

Beyond the Code

Finally, collaboration between technical teams and operational staff highlighted the importance of soft skills. It is not enough to just build a system since we must understand the needs of the people using it. This visit broadened our perspective that a Computer Science degree can take us beyond just software companies and into the heart of global industries like logistics and trade.

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