

ABSTRACT

PT Kereta Cepat Indonesia China (PT KCIC) operates the Whoosh high-speed rail service, supported by various IT devices at each station. Asset recording was previously done manually, making it prone to errors and slow reporting. To address this, a centralized, web-based inventory system was developed. The author contributed to database design.

Database performance testing was conducted using mysqlslap to simulate read, write, and mixed load scenarios. The results showed stable response times across different conditions, indicating the system's ability to handle high access loads. This system is deemed suitable for improving accuracy, efficiency, and ease of IT asset management at PT KCIC.

Keywords: PT KCIC, Inventory, Web, Database, Asset