

ABSTRACT

Asset management at PT Kereta Cepat Indonesia China (KCIC), specifically within the IT & Data Center Operation Network Bureau, was previously conducted semi-manually using spreadsheets. This process created several challenges, including inefficiency, risk of data entry errors, and difficulties in real-time asset tracking. To address these problems, a web-based Asset Management Information System was designed and implemented. The system was developed using the PHP programming language and a MySQL database. Key functionalities include asset data management (CRUD), role-based User management, and a primary feature of activity history logging with a database transaction mechanism to guarantee data integrity. Based on the results of black box testing, all system functionalities perform as expected. It is concluded that this system successfully provides an effective solution to enhance efficiency, accuracy, and accountability in asset management at PT KCIC.

Keywords: Information System, Asset Management, Inventory, Web-Based, PHP, MySQL.