

ABSTRACT

Inventory is a familiar term in the corporate world. By definition, inventory is a record, containing all the lists of goods owned by an institution. However, the more items the company owns, the more often errors occur in recording data. This is also influenced by human error or data input errors made by staff/employees. These errors also occurred in the Laboratory of the School of Electrical Engineering at Telkom University.

To help solve these problems created a system in the form of a website-based inventory of goods with the help of a QR code which serves to take a QR code image on each inventory product in the FTE Lab. Image retrieval is done on a QR code because it has a unique code and contains information about each item. The results in this final project research through alpha testing which was carried out using BlackBox, the application system was able to function according to what was designed.

In beta testing conducted through a questionnaire, it was found that 85% of respondents agreed that the inventory web application had helped in inventory management. Tests were also carried out by testing the scan distance, the results were that the closest distance was 10 cm and the farthest distance between the QR code and the camera was 75 cm, the effective distance for scanning the QR code was above 25 - 45 cm (ideal) and the distance above 45 cm was not ideal.

Keywords: *Inventory, Website, Qr Code, DataBase, Implementation.*