ABSTRACT

PT Telkom Witel Bandung which is located at Jl. Lembong No.11, Braga, Kec. Bandung Well, Bandung City, West Java. At this time the obstacles faced are regarding the inventory of goods at the PT Telkom Witel Bandung office, especially in the Network Area section or it can also be called ArNet where inventory data collection is manual and the lack of easy and efficient access for employees to record inventory of goods so as to borrow equipment work in the office is not optimal.

Therefore, the purpose of this final project is to overcome obstacles in recording inventory of goods which are still manually so that employees lack discipline in borrowing equipment. Data collection manually using a book by writing in the inventory provided. This final project is located at PT Telkom Witel Bandung, especially in the NetworkArea or ArNet section. There are several methods used in this final project, including: data collection, interviews, system design, system creation, design simulation and design analysis. The Qr-Code-based inventory system in this final project will facilitate the collection of inventory data that occurs in the inventory data collection. In the application there are several views such as the user register section, login section, home page view, add items, list of goods, borrowing goods, and history. This application uses the reactJS framework. This application is open in the sense that managers, assistant managers and staff can access the application, but only for employees of Telkom Witel Bandung, especially in the Network Area or Arnet section.

The results of this final project show that there is a good influence from the office and staff, where data collection of inventory items can be done easily and efficiently and does not take much time for testing. From the test results, reading the QR – Code can run smoothly based on distance, each angle can be obtained with a distance of 5cm – 100cm, with an angle of 0˚ - 45˚ to the left and 0˚ - 45˚ to the right. The position of the placement of the QR - Code affects the precision of reading the QR - Code. With the design of this application, it can make it easier for users to record inventory of goods so that they can minimize difficulties when searching for goods to be used.

Keywords: PT Telkom Witel Bandung, *Aplikasi, QR – Code, ReactJS.*