ABSTRACT

Telkom University is a private Indonesian university under the Telkom Education Foundation located in Dayeuhkolot, Bandung Regency, West Java. The Faculty of Industrial Engineering (FRI) is one of the faculties at Telkom University and has three study programs namely Industrial Engineering, Information Systems, and Logistics Engineering. Currently FRI uses rooms in two different buildings as a place to carry out lecture activities, namely the cacuk building and Telkom University Landmark Tower (TULT). In addition to these two buildings there are also hallways, manufacturing buildings, and creative spaces that can be used by lecturers or students. The number of rooms that can be borrowed makes recording using excel ineffective because too many sheets are needed. Too many excel sheets make the process of searching and detecting empty and borrowed rooms difficult to do.

In designing this Final Project, the author uses the knownedge conversion method with 5C4C, besides that this design also uses system testing methods, namely black box testing and user acceptance tests. The 5C knowledge conversion stage consists of contextualized, categorized, calculated, corrected, and condensed, while the 4C knowledge conversion consists of comparison, connection, consequence, and conversation, but in this final project the conversation stage is not carried out.

The result of this final project is a website-based room booking dashboard that informs room availability and records room booking. Through this study, the process of monitoring room availability can be seen from the room booking graph and there is also a table containing room borrower data that can be accessed directly by Head of Logistics Division.

The conclusion of this final project is that a room availability dashboard is obtained to help the logistics division of the Faculty of Industrial Engineering record room booking. Therefore, it is hoped that the dashboard design can help monitor room booking at the Faculty of Industrial Engineering.

Keyword **— Dashboard, Knowledge Conversion, 5C4C, Room Booking, Room Availability**