

ABSTRACT

Perumahan Buah Batu Bandung (PBB) housing estate is a densely populated housing located in the Telkom University Area. This housing has one entrance and exit which is guarded by security officers. At the entrance and exit access there are already Automatic Doorstop (PPO) and security guards to improve security at UN housing. Automatic Doorstop (PPO) in the UN housing has a problem that is the number of guests who enter the UN housing area without exchanging identities, so that security officers are difficult to identify to screen anyone who enters and exits the housing. Then if there is a problem with the card, the residents will report losing the card to the security guard, but the security guard does not know the number of the RFID on the access card of the citizen.

This study aims to provide, create designs between blocks and updates in PPO software, which will be used by technicians when there are reports of residents who do not have cards / lost. This system also helps people who want to extend their cards to enter the UN area. If residents do not have a card, residents must report their personal data to a security guard who will then be given a guest card to pass the PPO and enter the UN area. To create an automatic doorstop User Interface design for access card registration and monitoring in and out of the vehicle using the User Centered Design method in which this method is conducting a survey by making a questionnaire. After that determine the solution to the problem found when interviewing technicians and security officers. The results of this study are a design solution for designing automatic doorstop User Interfaces that can be accepted by users with an SUS score of 78%.

Keywords: User Centered Design, Automatic Gates, Design