ABSTRACT

A physical security system is needed in the room to ensure the assets located inside and ensure that only people have access rights. To facilitate access by users, you can use a keyless system. The use of keyless systems generally uses biometric or card systems, for example RFID. In this system a keyless system is designed by using an RFID card as a key substitute. The system designed to provide information on the whereabouts of users in the room, can give permission to guests, and can provide attendance information and status of user activity through an Android application whose output is displayed in a virtual display on the monitor screen. The system created has several features, including: enable docking, do not disturb, activity logs and guest request notifications. The speed of data transfer through the NRF module runs very well with a delay of less than 5 seconds with the farthest distance of 7 meters. The features that have been made run with their respective functions.

Keywords: RFID system, docking system, Wi-Fi, Module NRF, OTG cable