

Abstract

Dark Passage RFID Lock System for DLSU-D is a security system developed with three methods of access. These methods are the Android Application that requires Android 2.3 Gingerbread onwards, a website, and the use of RFIDs. It was developed for the faculty members of DLSU-D, by giving certain faculty members administrative access to know who can access the area secured by Dark Passage, and the logs of those who turn the lock on or off.

Dark Passage RFID Lock System's three methods of access have different specific functions, but all operate similarly. The Android Application shares a database with the website, and allows a user to toggle the relay on and off. The website allows two user types, admins and users. Admin account can Insert new accounts, Drop old accounts, and Update existing accounts in any way they deem fit. Admin accounts can also view entire logs of the system. User accounts operate similarly to Admin accounts, but are restricted. User accounts can turn the relay on and off, but they cannot view the database and hence cannot edit it in the process. User accounts can also view logs, but they are restricted to their own account's logs. The RFID reader will read recognized RFIDs and allow access to the user for a few seconds before locking once again. Unrecognized RFIDs will not allow access, and in return do nothing to the lock system.

With an overall average mean of 4.47 which has a descriptive rating of "very good", it signifies that the system is acceptable to users.