

## **ABSTRACT**

Keyless system is a technology for access control without a physical key. Usually a keyless system is based on electrical key mechanism. One of the keyless system example is RFID-based, which only allowed registered user to access the room, according to the user's ID tag. In this final project, we design and built an RFID-based keyless system prototype, which we called YKeyless. YKeyless has several features, such as display panel for showing the information of user presense in the room, and request meeting. Request meeting is a feature where a guest can request access to user, and user can give access from a smartphone application. User may view the log of another user from the mobile application.

**Keywords:** Keyless, RFID, Smathome, Internet of Things