ABSTRACT

Factor of safety and comfort that is becoming a major problem for the occupants of the room kost, despite being fitted with a key, not uncommon door can still be opened by other than the occupant of the room itself even by thieves. The usual thing to do is by installing an extra key outside the door, but this will only add to the deficiency when it enters the room, besides kost is not infrequently also lacking kost air circulation is good. The absence of a good control system, encourage the implementation of technology to build systems that are able to increase the factor of safety and comfort. With the implementation of a locking door, fan, and light can be designed so that its use is more effective and linked to bluetooth communication. Application of bluetooth in android smartphone connect bluetooth module with HC 05 using the Arduino Uno, which served as a tool of control solenoid door lock, turn on the fan, and turn on the lights. With the implementation of the applied to the room that the tool control kost can be controlled with an effective maximum distance if without any hindrance as far as 12 meters and the effective maximum distance if the existence of the barrier as far as 9 meters

Keywords: Room kost. Smartphone android, bluetooth, Arduino Uno R3, relay.