# SMART DOORLOCK WITH SECURITY SYSTEM

ABSTRACT

Often times, we need to secure a room at our home or office (perhaps a secret dexter's laboratory)so that no one can access the room without our permission and ensure protection against theft or loss of our important accessories and assets. There are so many types of security systems present today but behind the scene, for authentication they all relay on fingerprint, retina scanner, iris scanner, face id, tongue scanner, RFID reader, password, pin, patterns, etc.

Whenever the keys are pressed, they are matched with the keys already stored. If the keys that are pressed match the initial password stored in the EEPROM which is '1234', then the lock will open up. If the password does not match, then it will print "access denied" on the LCD. First, connect the 4X4 keypad to the Arduino; connect the first six pins on the 4X4 keypad with the A0 and A5 pins on the Arduino. As security features we are LDR and laser sensor is used so that any intruder cannot enter bypassing the sensors.
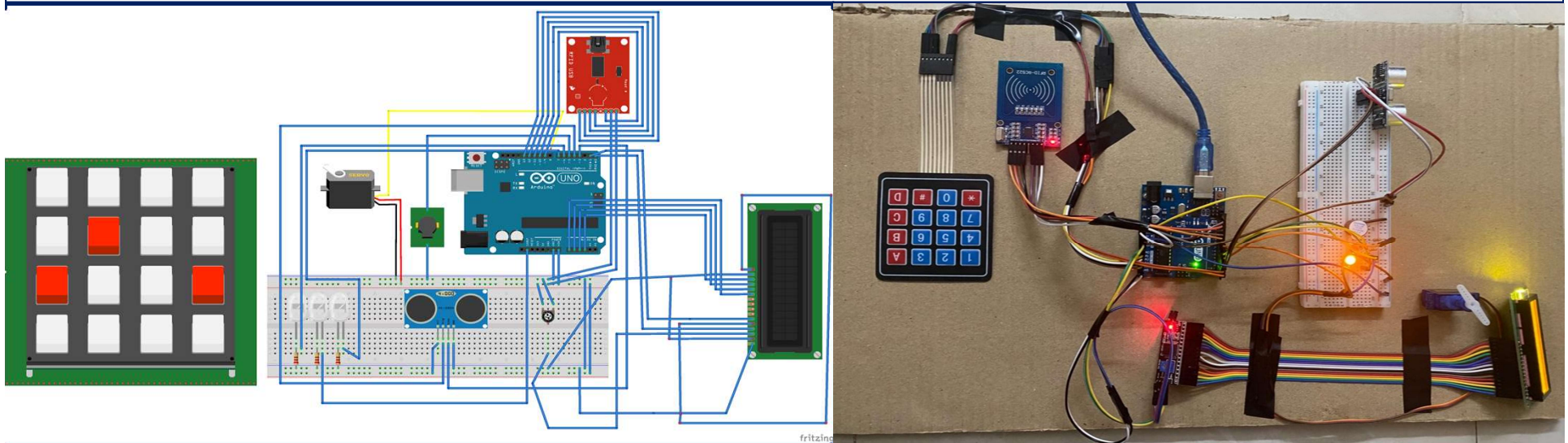
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