

ANDROID BASED DOUBLE AUTHENTICATION SECURITY SYSTEM

AIM:

Design and Development of Android based double authentication security system

PURPOSE:

Normal doors and windows are manual control and anybody can access. Here we can control door by password with double authentication. User need to give primary password from Android Application and secondary password from keypad. Using keypad passwords we can open and close doors with two passwords.

DESCRIPTION:

This project includes Bluetooth (HC-05) module, which is connected to Arduino through UART interface. Dc motor connected to Arduino digital pins through L293d H-Bridge. 4X4 Keypad connected to Arduino digital pins.

WORKING:

Here we have to access door with double authentication. Initially we have to give password from Android Application. If password is correct then it allows us to next step. Otherwise buzzer sound will come and notification will come to Android Application. In next step we have two passwords, one password is for door open and second password is for door close. These passwords we have to give from 4x4 keypad. For all password status, message will be displayed on Android Application. Also this information displayed on 16X2 LCD display.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Bluetooth	:	HC-05
Keypad	:	4X4 Matrix
Door	:	CD drive slider
Buzzer	:	5V DC
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

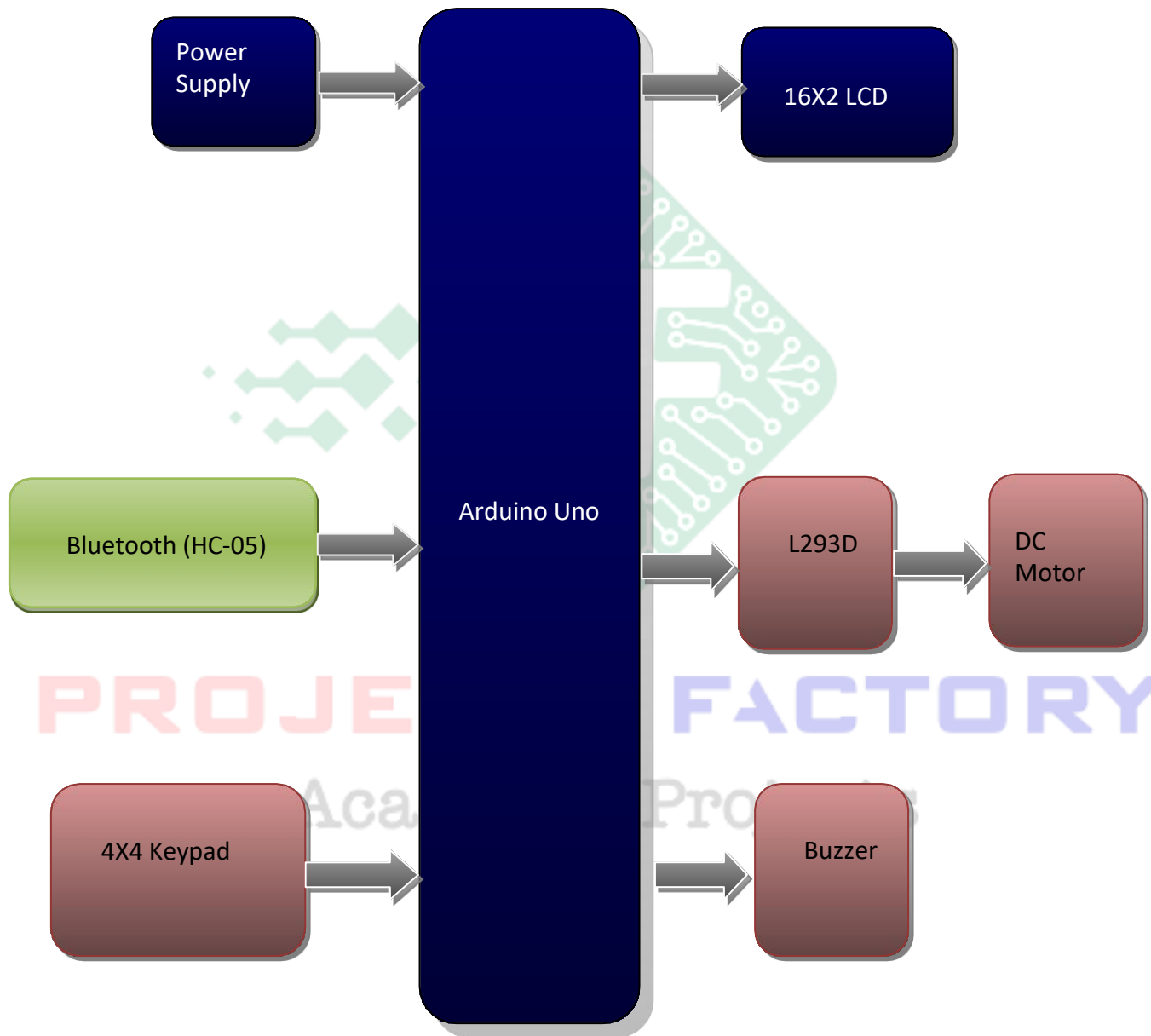
Arduino IDE

Proteus based circuit diagram

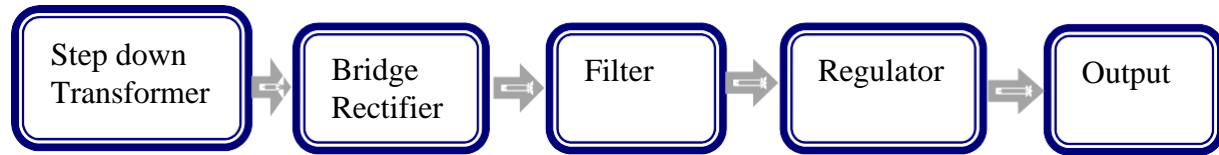
APPLICATIONS:

- Commercial Applications
- Bank security Applications
- Industrial Applications
- Office Applications

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered Bluetooth (HC-05) module interfacing
- 4X4 Keypad interface.
- DC motor and L293d H-bridge interface.



PROJECTS FACTORY
Academic Projects