

FINGER PRINT BASED ATTENDANCE SYSTEM

AIM:

Design and Development of Fingerprint based attendance system.

PURPOSE:

There are different kinds of attendance systems available in market. RFID, Smart card and many more available. But we can clone cards and possibility to do manipulate attendance system. But finger print cloning is very difficult and very expensive. Attendance system for schools, colleges and office purpose finger print is best solution. Here we propose finger print based attendance system using Arduino.

DESCRIPTION:

This project includes Finger print module (R307-biometric), which is connected to Arduino through UART interface. Two button and buzzer connected to Arduino digital pins.

WORKING: FACTORY

Here attendance can be done by finger prints. Here initially we have to store finger prints in module by pressing enroll button. Also Arduino connected to PC through serial port. PC has software which can store attendance information with respective to Time. While doing attendance user has to press identification button and keep finger on module then information will store in PC. If any unauthorized persons want to access then buzzer will be ON.

Website: www.projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | G-mailto: projectsfactory.in</



5 FACTORY

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller : Arduino Uno

Crystal : 16 MHz

LCD : 16X2 LCD

Finger Print Module : Bio-metric Module (R307)

Buzzer : 5vDC

Power Source : 12v 2 amp Adaptor

SOFTWARE:

Arduino IDE

Proteus based circuit diagram

APPLICATIONS:

- > School attendance
- > College attendance

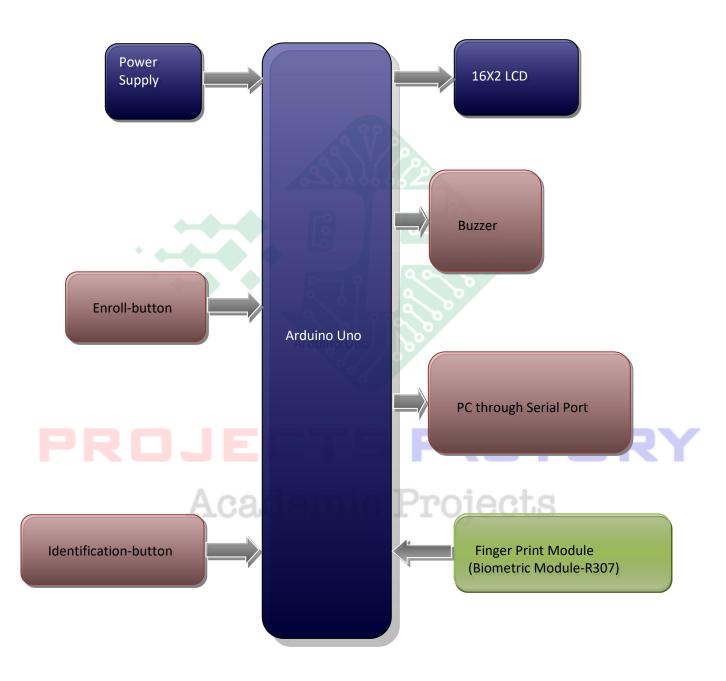
Office staff attendance system

Academic Projects

Website: www.projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | G-mailto: projectsfactory.in</



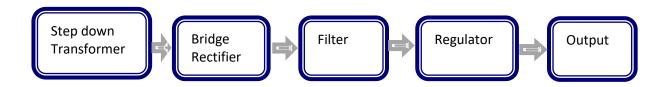
BLOCK DIAGRAM:



Website: www.projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | G-mailto: projectsfactory.in | G-mailto: projectsfactory.in | G-mailto:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

- We have covered finger print module (R307-Biometric Module) interfacing
- Serial protocol for data sending to PC



Website: www.projectsfactory.in | E-mail: info@projectsfactory.in | G-mail: projectsfactory.in | G-mailto: projectsfactory.in</