

RFID GSM KIDS SAFETY SYSTEM USING ARDUINO

AIM:

Design and development of RFID GSM kid's safety system using Arduino.

PURPOSE:

Now a day's crime against children is increased day by day. Child kidnapping is one type of crime and happen when they are alone. While going to school children are alone. There is no proper system to track children while they catching school buses. Here we propose solution like RFID GSM kids safety system using Arduino.

DESCRIPTION:

This project includes GSM (SIM800C) module, which is connected to Arduino through UART interface. RFID reader (EM-18) also connected to Arduino through UART interface. Buzzer connected to Arduino digital pin.

WORKING:

Here all students' information store into Arduino program. Student's information feed with respective to card numbers. When student entering he has to swipe card in front of RFID reader then SMS will send to mobile number. 1st time swipe it takes as entry and 2nd time swipe it takes as exit. This information will send to mobile number. Un swiped card information will not send to mobile number that means that particular student absent. All this information will display on 16X2 LCD display. For unauthorized entry buzzer will be ON. We can install this system in school bus and parents can track their children's status.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
GSM	:	SIM800C
RFID reader	:	EM-18
Buzzer	:	Dc 5V
Power Source	:	12v 2 amp Adaptor

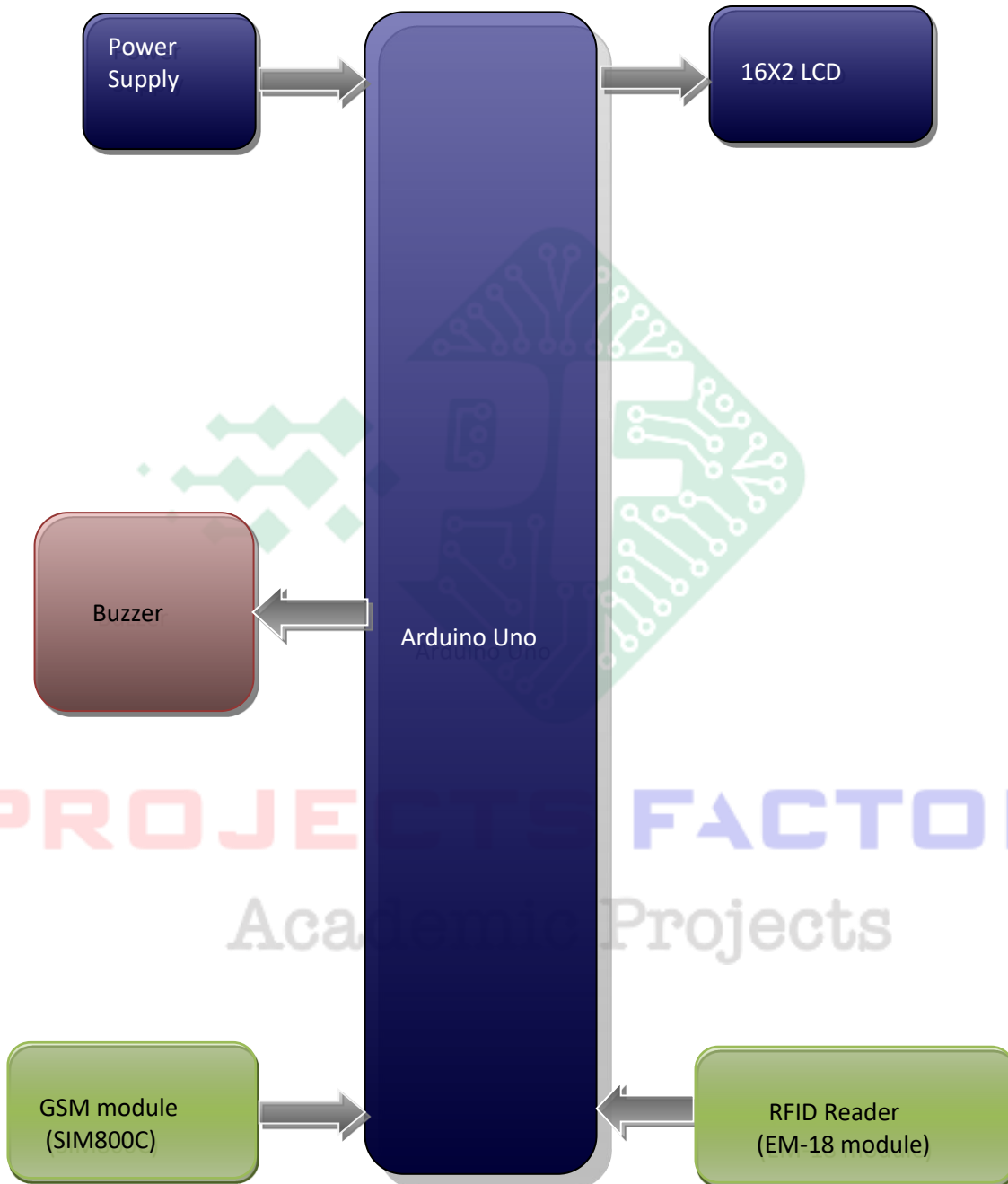
SOFTWARE:

Arduino IDE
Proteus based circuit diagram

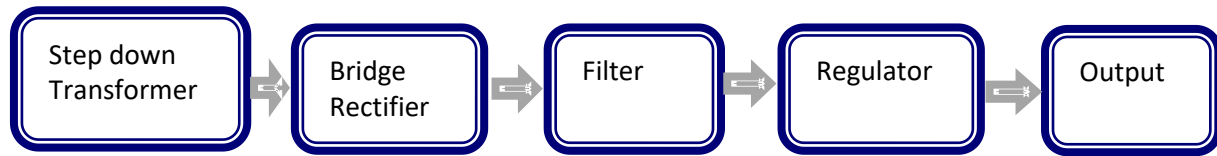
APPLICATIONS:

- Kids security
- RFID GSM security
- School bus Management

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered RFID (EM-18) and GSM (SIM800C) module interfacings
- Buzzer Interface



PROJECTS FACTORY
Academic Projects