

## **GSM GPS WOMEN SECURITY SYSTEM USING ARDUINO**

### **AIM:**

Design and development of GSM GPS women security system using Arduino.

### **PURPOSE:**

Now a day crime on women is increasing day by day. Especially in remote locations and in night times crime is increasing because of no patrolling of police. Also it is very difficult to provide patrolling in all the times. Self-securing is more important than depending on someone. Here we propose system like GSM GPS women security system using Arduino. Using this system women can tell her location to authorized people.

### **DESCRIPTION:**

This project includes GSM (Sim800C) module, which is connected to Arduino through UART. GPS (NEO-6M) module connected to Arduino through UART. Siren will be connected to Arduino digital Pin through relay. Button connected to Arduino digital pin.

### **WORKING:**

Arduino continuously reads button status. When women are in danger she can press button (panic button). Then siren sound will come and location details send to registered mobile number as SMS. This information will be displayed on LCD. SMS contains location details with google maps location.

## TECHNICAL SPECIFICATIONS:

### HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
GSM	:	SIM800C
GPS	:	NEO-6M
Panic button	:	Leaded Type two pin
Siren	:	12V/5V DC
Power Source	:	12v Battery or 12v 2 amp Adaptor

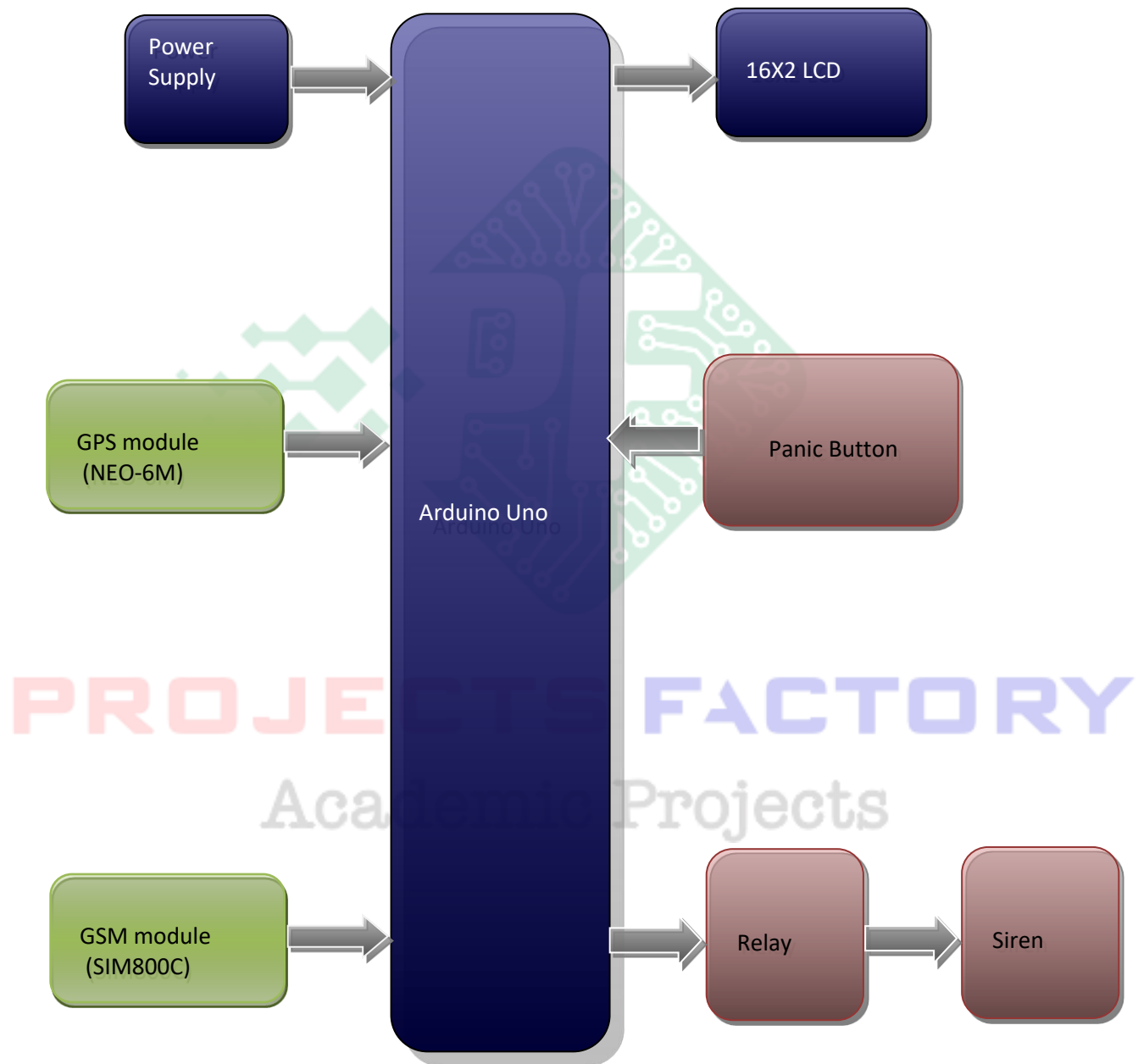
### SOFTWARE:

Arduino IDE  
Proteus based circuit diagram

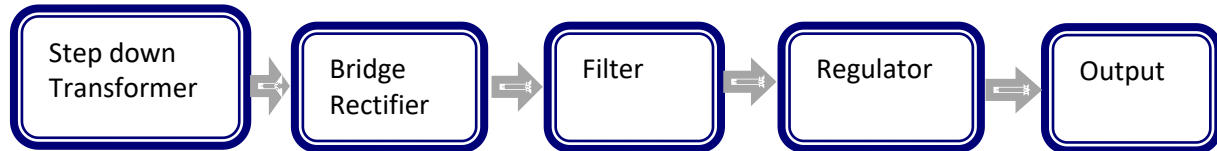
### APPLICATIONS:

- Women Security
- Tracking Applications

**BLOCK DIAGRAM:**



## POWER SUPPLY BLOCKDIAGRAM:



## INTERFACES COVERED:

- We have covered GSM (SIM800C) module Interfacing
- GPS (NEO-6M) module Interface
- Panic Button Interface

**PROJECTS FACTORY**  
Academic Projects