WOMEN SAFETY SYSTEM USING GSM GPS TRACKING

AIM:

Design and Development of Women safety system using GSM GPS tracking.

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 Women safety system using GSM GPS tracking. Using this system women can tell her location to authorized people. Also women can protect instantly with shock circuit.

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. Shock circuit can be controlled by relay which is 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. Shock circuit will be ON to give shock to opponent. SMS contains location details with Google maps location. We can track women by sending request command to GSM modem.

TECHNICAL SPECIFICATIONS:

HARDWARE:

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

SOFTWARE:

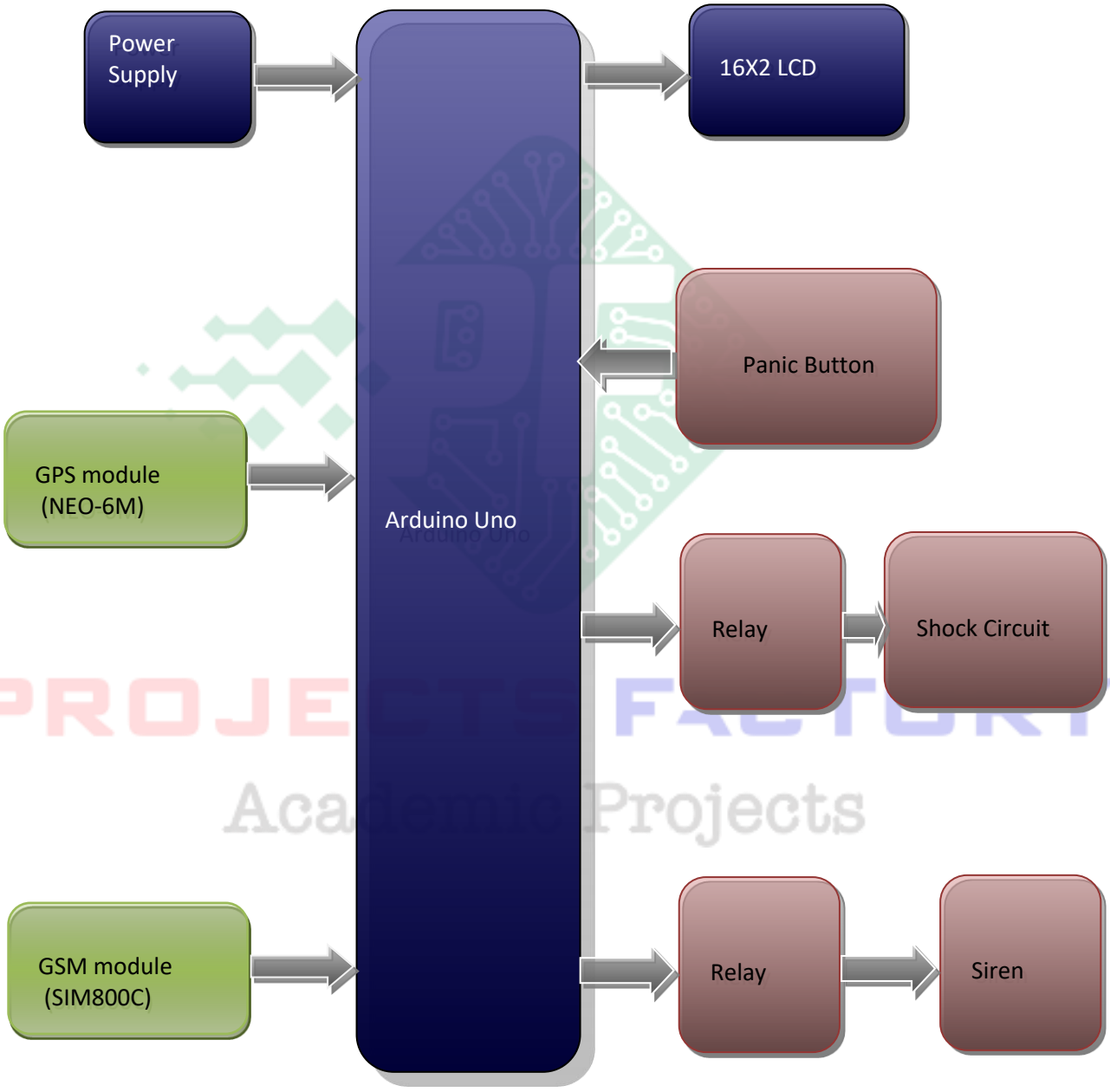
Arduino IDE

Proteus based circuit diagram

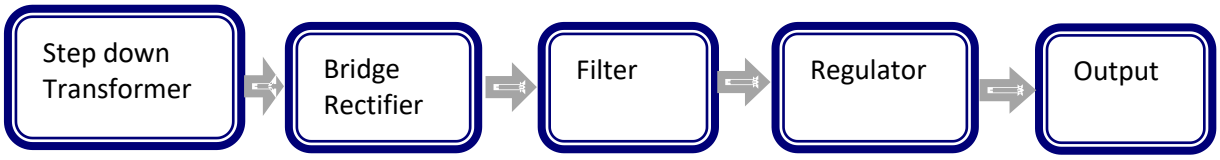
APPLICATIONS:

- Women Security
- Tracking Applications

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

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