

GMAILDUINO

Gmail notifier with Php and Arduino

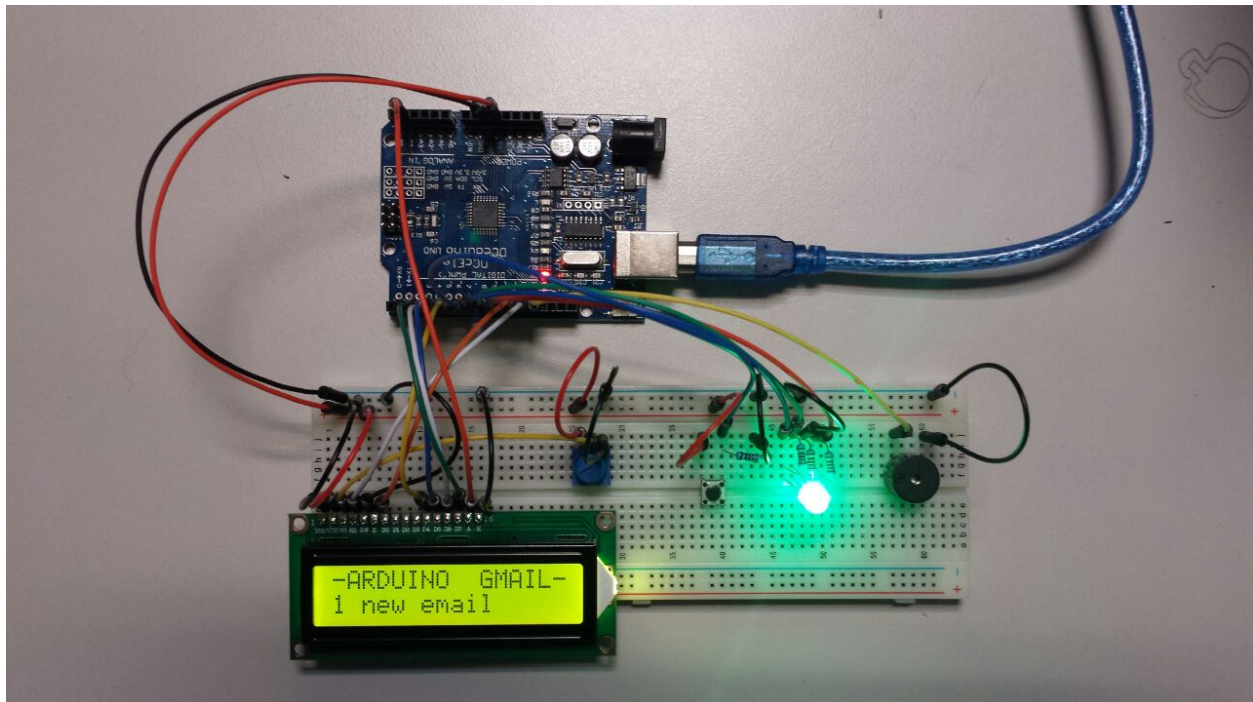
What is GmailDuino

GmailDuino is a project created by students of Computer Science Department (University of Catania). It is a Gmail Notifier that used an Arduino UNO (<http://www.arduino.cc/>) with a LCD Display, conjointly a Buzzer and a RGB Led, for notify when a new email is arrived, and allow to read sender and subject too.

Notifications are sent by php server (index.php) every 120 second (settable).

Good fun!

[Video] <http://youtube.com/url>



Installation and configuration

PHP Configuration

For execute php script you need a web server installed (we recommend using Linux machine with Apache web server installed) and php installed inside.

Futhermore you must install imap module for php with following command (on debian & derivate):

```
apt-get install php5-imap
```

Put index.php file into your personal web server directory (our default directory is /var/www/html).

Open index.php and set with your personal information:

```
- $username = 'personalmail@gmail.com';  
- $password = 'personalpassword';
```

In following line of index.php you must replace "/dev/ttyUSB0" with your personal serial port name, where arduino is plugged:

```
- define("PORT","/dev/ttyUSB0");
```

Lastly you add to your user and to server user the serial group (default is "dialout" but you can read this with command "ls -l /dev/ | grep tty*"):

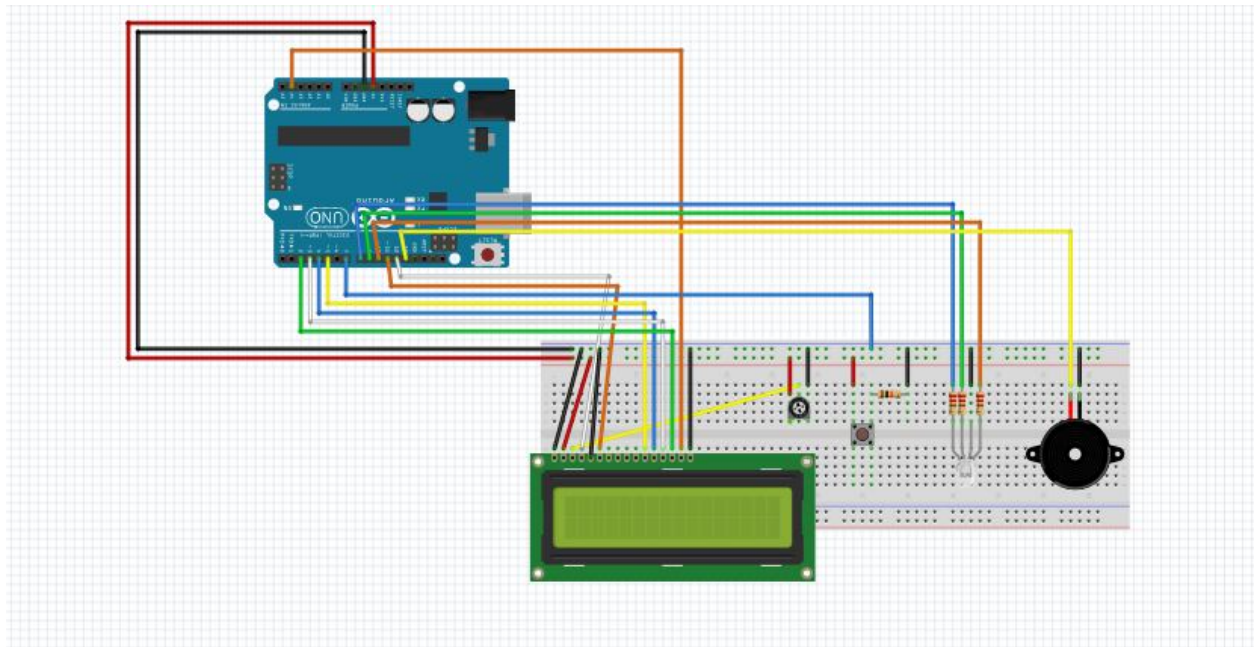
```
sudo su  
usermod -g dialout username  
groups username  
usermod -a -G dialout www-data  
groups www-data
```

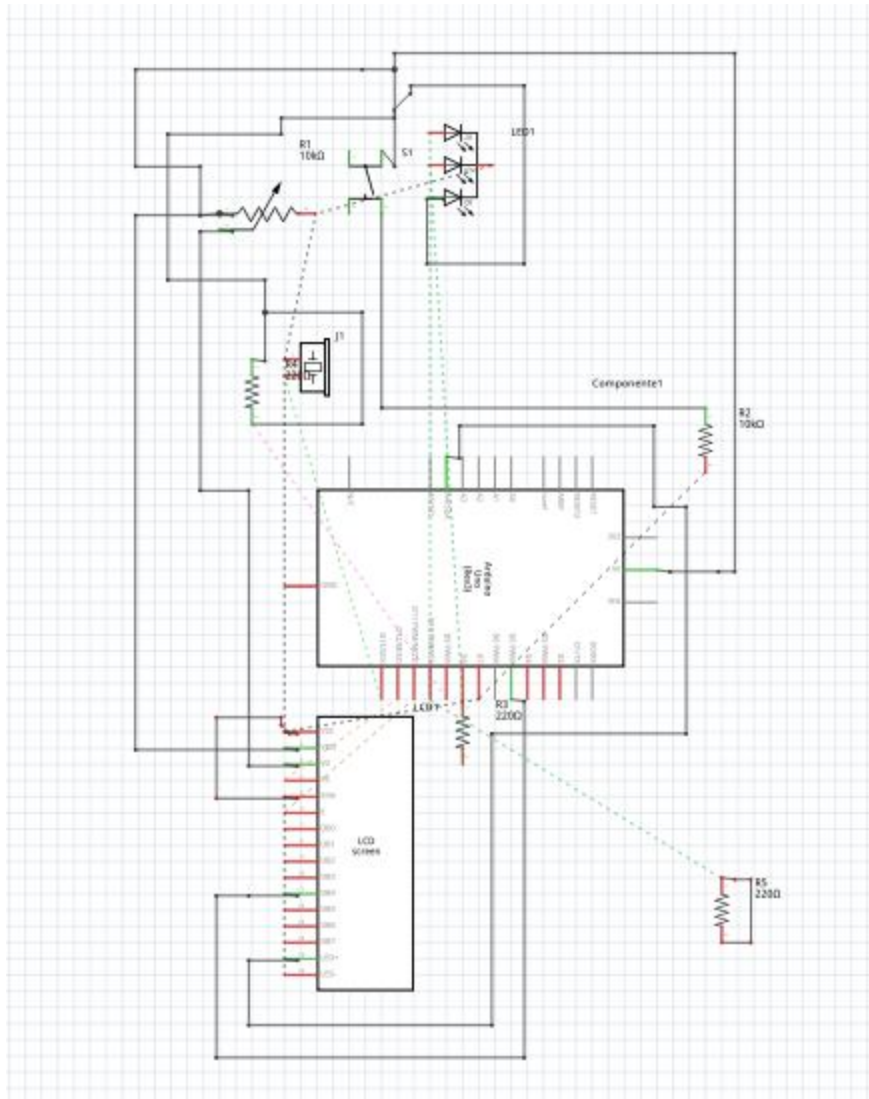
Note: replace username with your personal user, and www-data with your server user.

ARDUINO Configuration

Plug your Arduino (we used Arduino Uno but is indifferent), and load file `lcdprinter.ino.ino` (arduino sketch/lcdprinter v0.2/) or `Gmail_ino.ino /Gmail_ino/`. Difference between two previous sketch are only different color led (RGB), piezo melody, and lcd led on/off.

Circuit diagram





Start

Open index.php with your browser and leave open the page (if isn't open the php can't read from your gmail account).

Credits

Have participated at project (Alphabetical Order):

- Cantarella Danilo (<http://cantarelladanilo.com>)
- Maccarrone Roberta (<http://robertamaccarrone.altervista.org>)
- Parasiliti Parracello Cristina (<http://parasiliticristina.altervista.org>)
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- Ramon Gago (<http://ramongagocarrera.wix.com/spain>)
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