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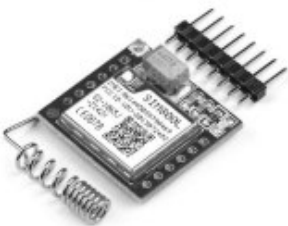




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## **EASY** Raspberry basics: Project 17a Raspberry PI 3 model B board - phpLiteAdmin

of Lex C. in Raspberry Pi 3

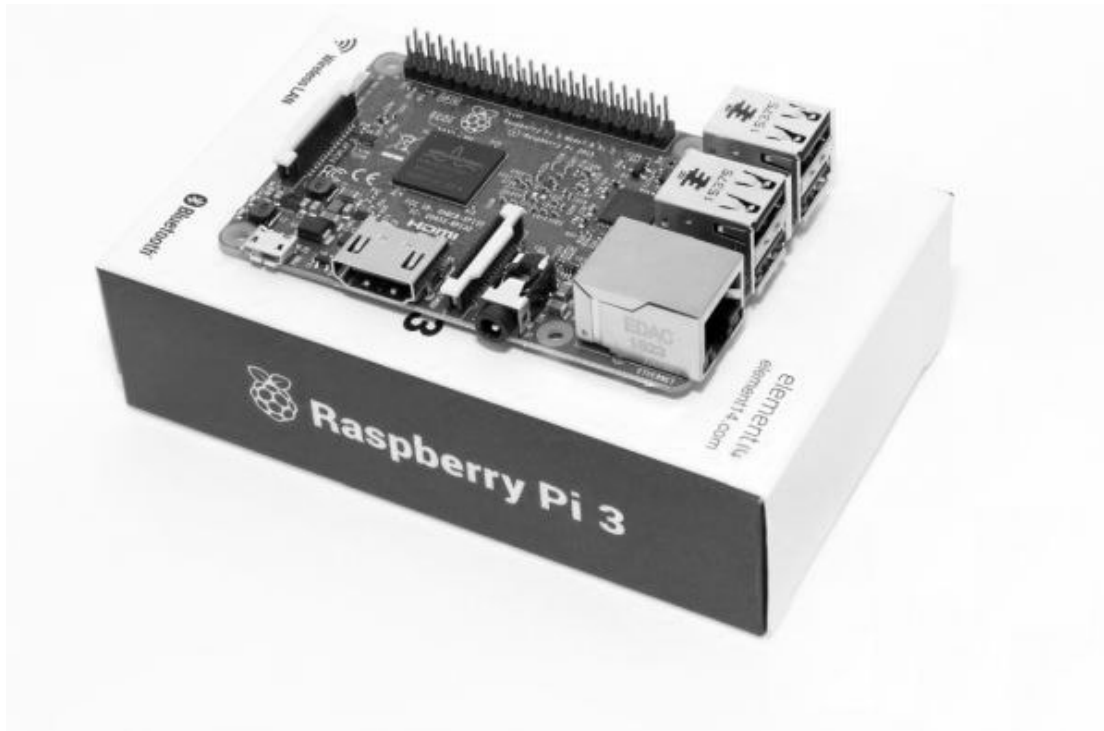
## Raspberry basics: Project 17a

### Project name: Raspberry PI 3 model B board - phpLiteAdmin

Tags: Raspberry, Raspberry PI 3 model B board, phpLiteAdmin, Database, SQLite, PHP, Apache2

In this project, you need these parts :

1. Raspberry PI 3 model B 1 pc



2. Micro SD card and SD card adapter 1 pc

3. Micro USB power supply (2.1 A, max 2.5 A) 1 pc



4. USB keyboard 1 pc



#### 5. USB mouse 1 pc



#### 6. TV or PC monitor 1 pc



### *General*

We will learn how to install phpLiteAdmin, a web-based user interface written in PHP that makes it easy to interact with SQLite databases, on Raspberry PI 3 model B board.

You need the Raspbian OS installed on your Raspberry PI 3 model B board.

### *Understanding the Raspberry PI 3 model B*

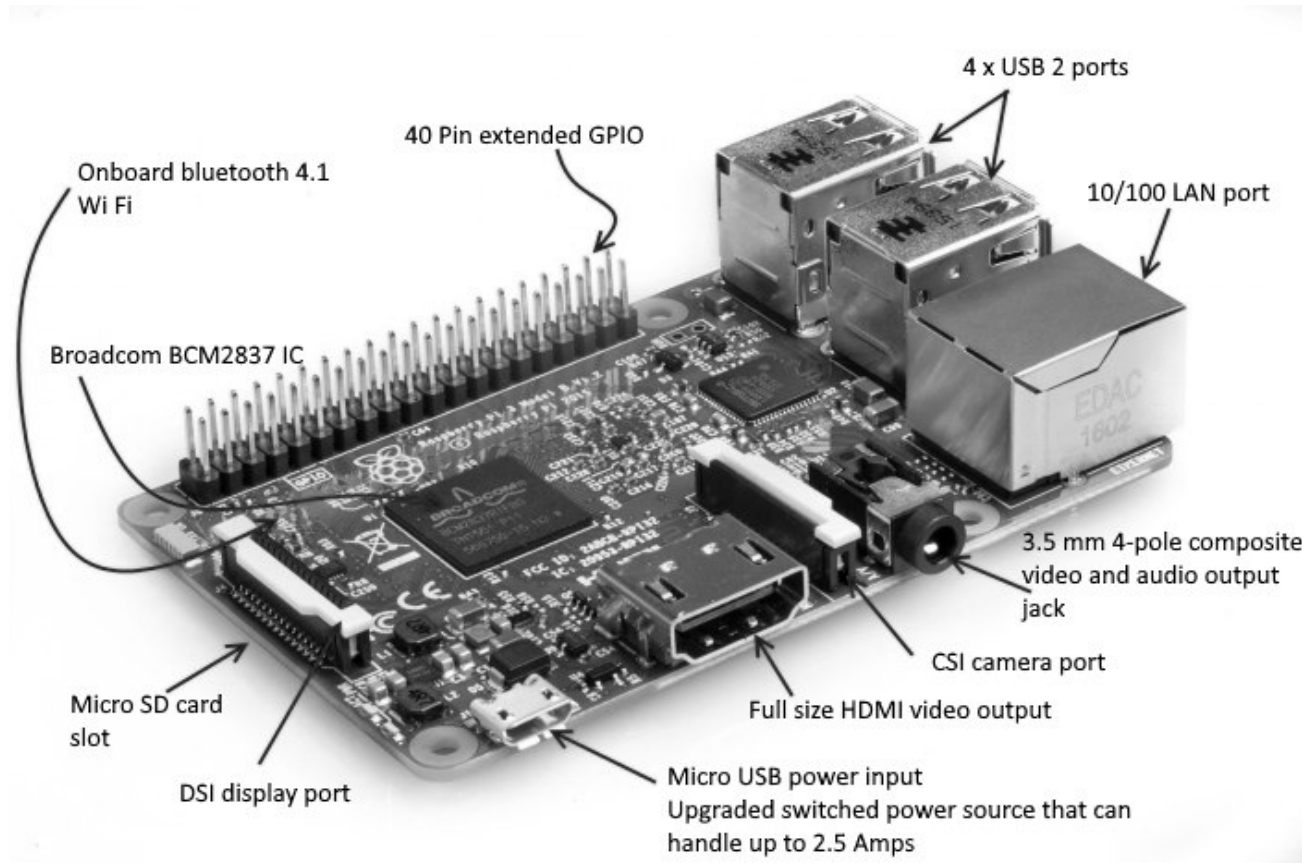
The Raspberry Pi 3 is the third-generation Raspberry Pi. It replaced the Raspberry Pi 2 Model B in February 2016.

### Specification:

- Quad Core 1.2GHz Broadcom BCM2837 64bit CPU
- 1GB RAM
- BCM43438 wireless LAN and Bluetooth Low Energy (BLE) on board
- 40-pin extended GPIO
- 4 USB 2 ports
- 4 Pole stereo output and composite video port

- Full size HDMI
- CSI camera port for connecting a Raspberry Pi camera
- DSI display port for connecting a Raspberry Pi touchscreen display
- Micro SD port for loading your operating system and storing data
- Upgraded switched Micro USB power source up to 2.5A

### *Signals and connections of the Raspberry PI 3 model B*



### *Step by Step instruction*

We recommend using a high-performance SD card for increased stability as well as plugging your device into an external display to see the default application booting up.

#### *1. Setup and preparation*

We assume that you have **Windows 10** installed on your PC and **Raspbian OS** installed on your Raspberry PI 3 board.

1. Insert your micro SD card with **Raspbian OS** to Raspberry PI 3 board.
2. Connect the TV or PC monitor Display port (HDMI Port) to your Raspberry PI 3 board HDMI Port (HDMI cable required).
3. Make sure that your monitor or TV is turned on, and that you have selected the right input (e.g. HDMI 1, etc).
4. Plug in your USB mouse and USB keyboard to Raspberry PI 3 board USB ports.
5. Get connected. Connect an Ethernet cable to 10/100 LAN port of Raspberry PI 3 or plug in WiFi adapter (see the list of supported [here](#)) to USB port of Raspberry PI 3.
6. Connect Micro USB power supply to Raspberry PI 3 board micro USB input.
7. The Raspberry PI desktop will start up.
8. Open **Terminal** window and type the command: *sudo apt-get update*

9. Then type the command: ***sudo apt-get install***

## 2. Install SQLite on your Raspberry PI 3.

### 3. Installing Apache2 and PHP

1. We need to install **Apache2** on the Raspberry PI 3. **Apache2** used to serve your web pages. Enter the command: ***sudo apt-get install apache2 -y***

```

pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~ $ sudo apt-get install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
0 upgraded, 9 newly installed, 0 to remove and 109 not upgraded.
Need to get 1,933 kB of archives.
After this operation, 6,211 kB of additional disk space will be used.
Get:1 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf libapr1 armhf
  1.5.2-5 [79.8 kB]
Get:2 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf libaprutil1 a
  rmhf 1.5.4-3 [75.9 kB]
Get:3 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf libaprutil1-d
  bd-sqlite3 armhf 1.5.4-3 [17.9 kB]
Get:4 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf libaprutil1-l
  dap armhf 1.5.4-3 [16.9 kB]
Get:5 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf liblua5.2-0 a

```

2.

3. We also need to install PHP which is an open source web scripting language that is used to build dynamic web applications. Type the command to install PHP and its modules: ***sudo apt-get install php7.0 libapache2-mod-php7.0 php7.0-sqlite -y***

```

pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~ $ sudo apt-get install php7.0 libapache2-mod-php7.0 php7.0-sqli
  te -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'php7.0-sqlite3' for regex 'php7.0-sqlite'
The following additional packages will be installed:
  php-common php7.0-cli php7.0-common php7.0-json php7.0-openssl
  php7.0-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php7.0 php-common php7.0 php7.0-cli php7.0-common php7.0-json
  php7.0-openssl php7.0-readline php7.0-sqlite3
0 upgraded, 9 newly installed, 0 to remove and 109 not upgraded.
Need to get 2,729 kB of archives.
After this operation, 11.2 MB of additional disk space will be used.
Get:1 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf php-common al
  l 1:49 [14.1 kB]
Get:2 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf php7.0-common
  armhf 7.0.30-0+deb9u1 [484 kB]
Get:3 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf php7.0-json a
  rmhf 7.0.30-0+deb9u1 [15.2 kB]
Get:4 http://mirror.litnet.lt/raspbian/raspbian stretch/main armhf php7.0-opcach

```

4.

5. Type the command: ***sudo apt-get update***

6. Then type the command: ***sudo apt-get install***

```

pi@raspberrypi: ~
File Edit Tabs Help
Creating config file /etc/php/7.0/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.0
Setting up php7.0 (7.0.30-0+deb9u1) ...
pi@raspberrypi:~ $ sudo apt-get update
Get:1 http://archive.raspberrypi.org/debian stretch InRelease [25.3 kB]
Get:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease [15.0 kB]
Get:3 http://raspbian.raspberrypi.org/raspbian stretch/main armhf Packages [11.7
MB]
Get:4 http://archive.raspberrypi.org/debian stretch/ui armhf Packages [39.1 kB]
Fetched 11.7 MB in 15s (752 kB/s)
Reading package lists... Done
pi@raspberrypi:~ $ sudo apt-get install
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.

```

7. ***0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.***  
 8. Go to your ***/var/www/html*** directory and edit the ***dir.conf*** file by typing these commands:

9. ***cd /var/www/html***

10. ***sudo nano /etc/apache2/mods-enabled/dir.conf***

```

pi@raspberrypi: /var/www/html
File Edit Tabs Help
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.0
Setting up php7.0 (7.0.30-0+deb9u1) ...
pi@raspberrypi:~ $ sudo apt-get update
Get:1 http://archive.raspberrypi.org/debian stretch InRelease [25.3 kB]
Get:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease [15.0 kB]
Get:3 http://raspbian.raspberrypi.org/raspbian stretch/main armhf Packages [11.7
MB]
Get:4 http://archive.raspberrypi.org/debian stretch/ui armhf Packages [39.1 kB]
Fetched 11.7 MB in 15s (752 kB/s)
Reading package lists... Done
pi@raspberrypi:~ $ sudo apt-get install
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
pi@raspberrypi:~ $ sudo apt-get update
Hit:1 http://archive.raspberrypi.org/debian stretch InRelease
Hit:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease
Reading package lists... Done
pi@raspberrypi:~ $ cd /var/www/html
pi@raspberrypi:/var/www/html $ sudo nano /etc/apache2/mods-enabled/dir.conf
pi@raspberrypi:/var/www/html $

```

11. ***pi@raspberrypi:/var/www/html \$***  
 12. Make the change to the file. Before ***index.html*** was first in line. We need to have ***index.php*** first in the line.



```

pi@raspberrypi: /var/www/html
File Edit Tabs Help
GNU nano 2.7.4 File: /etc/apache2/mods-enabled/dir.conf
<IfModule mod_dir.c>
  DirectoryIndex index.html index.cgi index.pl index.php index.xhtml inde$
</IfModule>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
[ Read 5 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line

```

13.

```

pi@raspberrypi: /var/www/html
File Edit Tabs Help
GNU nano 2.7.4 File: /etc/apache2/mods-enabled/dir.conf Modified
<IfModule mod_dir.c>
  DirectoryIndex index.php index.html index.cgi index.pl index.xhtml inde$
</IfModule>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line

```

14.

15. Press **Ctrl+X** buttons, press **Y** button and press **Enter** button to save your changes. Restart **Apache2** service for the changes to take effect by typing this command: ***sudo service apache2 restart***

```
pi@raspberrypi: /var/www/html
File Edit Tabs Help
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.0
Setting up php7.0 (7.0.30-0+deb9u1) ...
pi@raspberrypi:~ $ sudo apt-get update
Get:1 http://archive.raspberrypi.org/debian stretch InRelease [25.3 kB]
Get:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease [15.0 kB]
Get:3 http://raspbian.raspberrypi.org/raspbian stretch/main armhf Packages [11.7
MB]
Get:4 http://archive.raspberrypi.org/debian stretch/ui armhf Packages [39.1 kB]
Fetched 11.7 MB in 15s (752 kB/s)
Reading package lists... Done
pi@raspberrypi:~ $ sudo apt-get install
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
pi@raspberrypi:~ $ sudo apt-get update
Hit:1 http://archive.raspberrypi.org/debian stretch InRelease
Hit:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease
Reading package lists... Done
pi@raspberrypi:~ $ cd /var/www/html
pi@raspberrypi:/var/www/html $ sudo nano /etc/apache2/mods-enabled/dir.conf
pi@raspberrypi:/var/www/html $ sudo service apache2 restart
16. pi@raspberrypi:/var/www/html $
```

#### 4. Testing installation

1. Create a new PHP file with the name **index.php**:

```
pi@raspberrypi: /var/www/html
File Edit Tabs Help
apache2_invoke: Enable module php7.0
Setting up php7.0 (7.0.30-0+deb9u1) ...
pi@raspberrypi:~ $ sudo apt-get update
Get:1 http://archive.raspberrypi.org/debian stretch InRelease [25.3 kB]
Get:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease [15.0 kB]
Get:3 http://raspbian.raspberrypi.org/raspbian stretch/main armhf Packages [11.7
MB]
Get:4 http://archive.raspberrypi.org/debian stretch/ui armhf Packages [39.1 kB]
Fetched 11.7 MB in 15s (752 kB/s)
Reading package lists... Done
pi@raspberrypi:~ $ sudo apt-get install
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
pi@raspberrypi:~ $ sudo apt-get update
Hit:1 http://archive.raspberrypi.org/debian stretch InRelease
Hit:2 http://raspbian.raspberrypi.org/raspbian stretch InRelease
Reading package lists... Done
pi@raspberrypi:~ $ cd /var/www/html
pi@raspberrypi:/var/www/html $ sudo nano /etc/apache2/mods-enabled/dir.conf
pi@raspberrypi:/var/www/html $ sudo service apache2 restart
pi@raspberrypi:/var/www/html $ sudo nano index.php
2. pi@raspberrypi:/var/www/html $
```

3. Copy the next line to your **index.php** file:

```

pi@raspberrypi: /var/www/html
File Edit Tabs Help
GNU nano 2.7.4 File: index.php Modified
<?php phpinfo(); ?>
[ New File ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^_ Replace ^U Uncut Text ^T To Spell ^_ Go To Line

```

- 4.
5. Press **Ctrl+X** buttons, press **Y** button and press **Enter** button to save your changes.
6. Type the command to find your Raspberry Pi IP address: **ifconfig**

```

pi@raspberrypi:/var/www/html $ ifconfig
eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether b8:27:eb:ea:43:df txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 12926 bytes 1145603 (1.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12926 bytes 1145603 (1.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.121 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::f7e7:fce5:1e47:b3cf prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:bf:16:8a txqueuelen 1000 (Ethernet)
    RX packets 90592 bytes 23799446 (22.6 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 104392 bytes 26492455 (25.2 MiB)

```

- 7.
8. As you can see we have **192.168.0.121**. Go to any web browser (for example, Internet Explorer, Google Chrome, Microsoft Edge) and type your Raspberry Pi IP address: **http://your\_raspberry\_pi\_IP\_address** (we have **http://192.168.0.121**)
9. You should see the page like that:

PHP Version 7.0.30-0+deb9u1

System	Linux raspberrypi 4.14.70-v7+ #1144 SMP Tue Sep 18 17:34:46 BST 2018 armv7l
Build Date	Jun 14 2018 13:50:25
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.0/apache2
Loaded Configuration File	/etc/php/7.0/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.0/apache2/conf.d
Additional .ini files parsed	/etc/php/7.0/apache2/conf.d/10-opcache.ini, /etc/php/7.0/apache2/conf.d/10-pdo.ini, /etc/php/7.0/apache2/conf.d/20-calendar.ini, /etc/php/7.0/apache2/conf.d/20-ctype.ini, /etc/php/7.0/apache2/conf.d/20-exif.ini, /etc/php/7.0/apache2/conf.d/20-fileinfo.ini, /etc/php/7.0/apache2/conf.d/20-ftp.ini, /etc/php/7.0/apache2/conf.d/20-gdlib.ini, /etc/php/7.0/apache2/conf.d/20-iconv.ini, /etc/php/7.0/apache2/conf.d/20-json.ini, /etc/php/7.0/apache2/conf.d/20-pdo_sqlite.ini, /etc/php/7.0/apache2/conf.d/20-phar.ini, /etc/php/7.0/apache2/conf.d/20-posix.ini, /etc/php/7.0/apache2/conf.d/20-readline.ini, /etc/php/7.0/apache2/conf.d/20-shmop.ini, /etc/php/7.0/apache2/conf.d/20-sockets.ini, /etc/php/7.0/apache2/conf.d/20-sqlite3.ini, /etc/php/7.0/apache2/conf.d/20-sysvmsg.ini, /etc/php/7.0/apache2/conf.d/20-sysvsem.ini, /etc/php/7.0/apache2/conf.d/20-sysvshm.ini, /etc/php/7.0/apache2/conf.d/20-tokenizer.ini
PHP API	20151012
PHP Extension	20151012
Zend Extension	320151012
Zend Extension Build	API320151012.NTS
PHP Extension Build	API20151012.NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
IPv6 Support	enabled
DTrace Support	available, disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, sslv2, tls, tlsv1.0, tlsv1.1, tlsv1.2
Registered Stream Filters	zlib.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk, convert.iconv.*

This program makes use of the Zend Scripting Language Engine:  
 Zend Engine v3.0.0, Copyright (c) 1998-2017 Zend Technologies  
 with Zend OPcache v7.0.30-0+deb9u1, Copyright (c) 1999-2017, by Zend Technologies

10.

11. Congrats!!! Your PHP installation is successful. We can remove the **index.php** file now by typing this command: ***sudo rm index.php***

## 5. Installing *phpLiteAdmin*

1. Create a new folder called **database** and go to it by typing these commands:
2. ***sudo mkdir database***
3. ***cd database/***
4. Type these commands to download and prepare **phpLiteAdmin**:
5. ***sudo wget https://bitbucket.org/phpliteadmin/public/downloads/phpLiteAdmin\_v1-9-7-1.zip***

```

pi@raspberrypi: /var/www/html/database
File Edit Tabs Help

pi@raspberrypi:/var/www/html $ sudo rm index.php
pi@raspberrypi:/var/www/html $ sudo mkdir database
pi@raspberrypi:/var/www/html $ cd database/
pi@raspberrypi:/var/www/html/database $ sudo wget https://bitbucket.org/phpliteadmin/public/downloads/phpLiteAdmin_v1-9-7-1.zip
--2018-11-19 12:45:59-- https://bitbucket.org/phpliteadmin/public/downloads/phpLiteAdmin_v1-9-7-1.zip
Resolving bitbucket.org (bitbucket.org)... 18.205.93.0, 18.205.93.2, 18.205.93.1
Connecting to bitbucket.org (bitbucket.org)|18.205.93.0|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://bbuseruploads.s3.amazonaws.com/2e27885c-e634-48bd-890d-442ed5b88357/downloads/1423eb80-e9a4-4060-b006-18700e364adf/phpLiteAdmin_v1-9-7-1.zip?Signature=zQE%2Fe2vIeMDtbZtrRV8gHYs9vnA%3D&Expires=1542625209&AWSAccessKeyId=AKIAIQWXW6WLXMB5QZAQ&versionId=BZshmsZT1MkYqRJAJAiAGN.m3J8Pj0pI&response-content-disposition=attachment%3B%20filename%3D%22phpLiteAdmin_v1-9-7-1.zip%22 [following]
--2018-11-19 12:46:00-- https://bbuseruploads.s3.amazonaws.com/2e27885c-e634-48bd-890d-442ed5b88357/downloads/1423eb80-e9a4-4060-b006-18700e364adf/phpLiteAdmin_v1-9-7-1.zip?Signature=zQE%2Fe2vIeMDtbZtrRV8gHYs9vnA%3D&Expires=1542625209&AWSAccessKeyId=AKIAIQWXW6WLXMB5QZAQ&versionId=BZshmsZT1MkYqRJAJAiAGN.m3J8Pj0pI&response-content-disposition=attachment%3B%20filename%3D%22phpLiteAdmin_v1-9-7-1.zip%22
6. Resolving bbuseruploads.s3.amazonaws.com (bbuseruploads.s3.amazonaws.com)... 52.

```

7. ***sudo unzip phpLiteAdmin\_v1-9-7-1.zip***

8. ***sudo rm phpLiteAdmin\_v1-9-7-1.zip***

```

pi@raspberrypi: /var/www/html/database
File Edit Tabs Help

bd-890d-442ed5b88357/downloads/1423eb80-e9a4-4060-b006-18700e364adf/phpLiteAdmin_v1-9-7-1.zip?Signature=zQE%2Fe2vIeMDtbZtrRV8gHYs9vnA%3D&Expires=1542625209&AWSAccessKeyId=AKIAIQWXW6WLXMB5QZAQ&versionId=BZshmsZT1MkYqRJAJAiAGN.m3J8Pj0pI&response-content-disposition=attachment%3B%20filename%3D%22phpLiteAdmin_v1-9-7-1.zip%22
Resolving bbuseruploads.s3.amazonaws.com (bbuseruploads.s3.amazonaws.com)... 52.216.228.48
Connecting to bbuseruploads.s3.amazonaws.com (bbuseruploads.s3.amazonaws.com)|52.216.228.48|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 54002 (53K) [application/zip]
Saving to: 'phpLiteAdmin_v1-9-7-1.zip'

phpLiteAdmin_v1-9-7 100%[=====>] 52.74K 186KB/s in 0.3s
2018-11-19 12:46:01 (186 KB/s) - 'phpLiteAdmin_v1-9-7-1.zip' saved [54002/54002]

pi@raspberrypi:/var/www/html/database $ sudo unzip phpLiteAdmin_v1-9-7-1.zip
Archive: phpLiteAdmin_v1-9-7-1.zip
  inflating: phpliteadmin.config.sample.php
  inflating: phpliteadmin.php
  inflating: readme.md
pi@raspberrypi:/var/www/html/database $ sudo rm phpLiteAdmin_v1-9-7-1.zip
9. pi@raspberrypi:/var/www/html/database $

```

10. To set a password and the path to your SQLite database in your phpLiteAdmin configuration type these commands:

11. ***sudo cp phpliteadmin.config.sample.php phpliteadmin.config.php***

12. ***sudo nano phpliteadmin.config.php***

```

pi@raspberrypi: /var/www/html/database
File Edit Tabs Help
GNU nano 2.7.4 File: phpliteadmin.config.php Modified
<?php
//
// This is sample configuration file
//
// You can configure phpliteadmin in one of 2 ways:
// 1. Rename phpliteadmin.config.sample.php to phpliteadmin.config.php and chanS
// You can set only your custom settings in phpliteadmin.config.php. All othS
// 2. Change parameters directly in main phpliteadmin.php file
//
// Please see https://bitbucket.org/phpliteadmin/public/wiki/Configuration for S
//password to gain access
$password = 'admin';
//directory relative to this file to search for databases (if false, manually lS
$directory = '.';
//whether or not to scan the subdirectories of the above directory infinitely dS
$subdirectories = false;
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^_ Replace ^U Uncut Text ^T To Spell ^_ Go To Line

```

13.

14. Type a unique password.

15. Press **Ctrl+X** buttons, press **Y** button and press **Enter** button to save your changes.

## 6. Changing file and folder permissions

1. In order to make phpLiteAdmin work properly you need to change some permissions and files ownership. Type these commands:
2. `cd ..`
3. `sudo chmod 777 database`
4. `sudo chmod 777 database/*`
5. `sudo chown root:root database`
6. `sudo chown root:root database/*`
7. We need to confirm that root is the owner and those are the permissions for the database folder, type the command: `ls -l`

```

pi@raspberrypi: /var/www/html
File Edit Tabs Help
pi@raspberrypi:/var/www/html/database $ sudo unzip phpliteAdmin_v1-9-7-1.zip
Archive:  phpliteAdmin_v1-9-7-1.zip
  inflating: phpliteadmin.config.sample.php
  inflating: phpliteadmin.php
  inflating: readme.md
pi@raspberrypi:/var/www/html/database $ sudo rm phpliteAdmin_v1-9-7-1.zip
pi@raspberrypi:/var/www/html/database $ sudo cp phpliteadmin.config.sample.php p
hpliteadmin.config.php
pi@raspberrypi:/var/www/html/database $ sudo nano phpliteadmin.config.php
pi@raspberrypi:/var/www/html/database $ cd ..
pi@raspberrypi:/var/www/html $ sudo chmod 777 database
pi@raspberrypi:/var/www/html $ sudo chmod 777 database/*
pi@raspberrypi:/var/www/html $ sudo chown root:root database
pi@raspberrypi:/var/www/html $ sudo chown root:root database/*
pi@raspberrypi:/var/www/html $ ls -l
total 16
drwxrwxrwx 2 root root 4096 Nov 19 12:58 database
-rw-r--r-- 1 root root 10701 Nov 19 11:55 index.html
pi@raspberrypi:/var/www/html $

```

8.

## 7. Testing phpLiteAdmin amd creating a SQL database

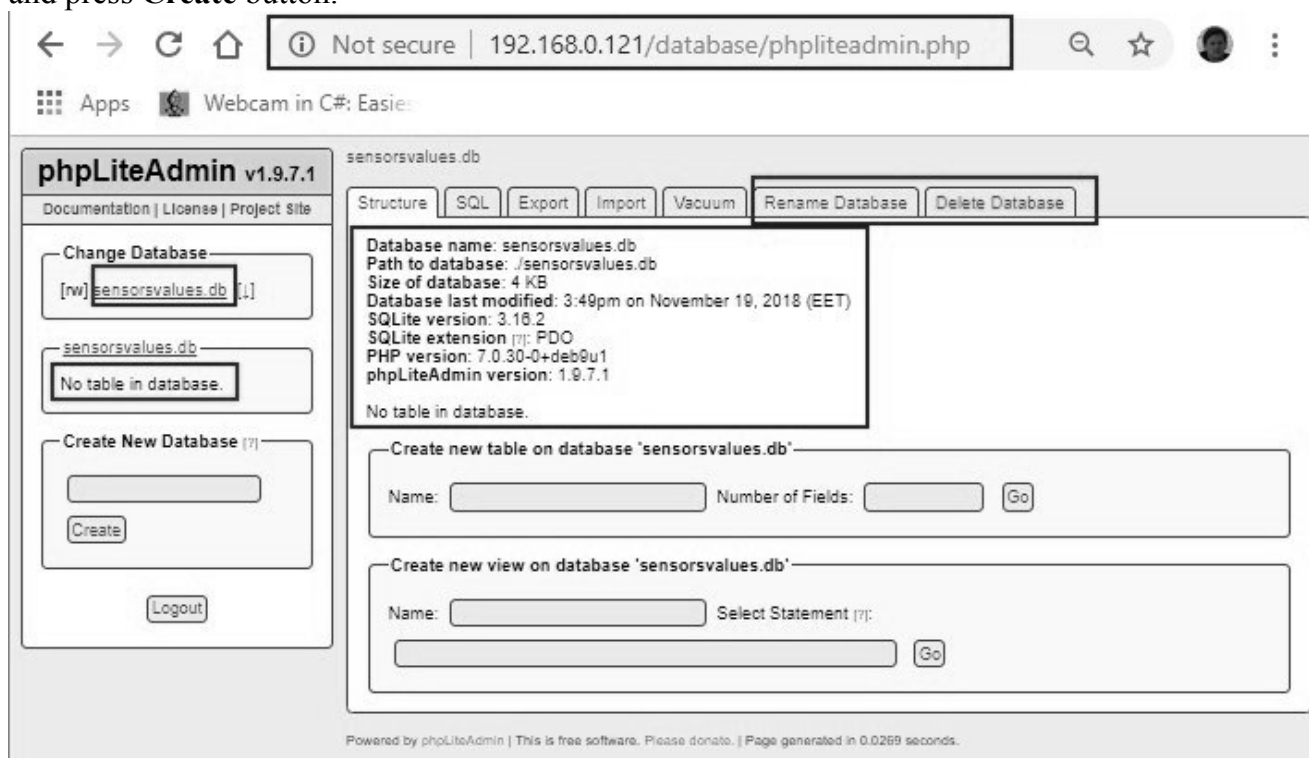
1. Go to any web browser (for example, Internet Explorer, Google Chrome, Microsoft Edge) and type your Raspberry PI IP address: ***http://your\_raspberry\_pi\_IP\_address/database/phpliteadmin.php*** (we have ***http://192.168.0.121/database/phpliteadmin.php***)
2. You should see the page like that:



- 3.
4. Enter your password to login. You will see another web page:



- 5.
6. Enter name of your database (for example **sensorsvalues.db**) into **Create new database** field and press **Create** button.



- 7.

8. Create new table. Type Name **dhtreadings** and Number of Fields **6** and press **Go** button.

Create new table on database 'sensorsvalues.db'

Name:  Number of Fields:

---

Create new view on database 'sensorsvalues.db'

Name:  Select Statement [?]:

9.

← → ↻ 🏠 ⓘ Not secure | 192.168.0.121/database/phpliteadmin.php?action=table\_create&confirm=1

📱 Apps 📷 Webcam in C#: Easy

**phpLiteAdmin v1.9.7.1** sensorsvalues.db

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Change Database

sensorsvalues.db

Create New Database (?)

Table 'dhtreadings' has been created.  
 CREATE TABLE 'dhtreadings' ('id' INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, 'temperature' NUMERIC, 'humidity' NUMERIC, 'currentdate' DATETIME, 'currenttime' DATETIME, 'device' TEXT)

Return

Powered by phpLiteAdmin | This is free software. Please donate. | Page generated in 0.0243 seconds.

10.

11. Enter the data in the fields. See the example below:

← → ↻ 🏠 ⚠ Not secure | 192.168.0.121/database/phpliteadmin.php?action=table\_create

📱 Apps 📷 Webcam in C#: Easy

**phpLiteAdmin v1.9.7.1** sensorsvalues.db

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Change Database

sensorsvalues.db  
 No table in database.

Create New Database (?)

Create new table: 'dhtreadings'

Field	Type	Primary Key	Autoincrement	Not NULL	Default Value
<input type="text" value="id"/>	INTEGER	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	None
<input type="text" value="temperature"/>	NUMERIC	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	None
<input type="text" value="humidity"/>	NUMERIC	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	None
<input type="text" value="currentdate"/>	DATETIME	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	None
<input type="text" value="currenttime"/>	DATETIME	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	None
<input type="text" value="device"/>	TEXT	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	None

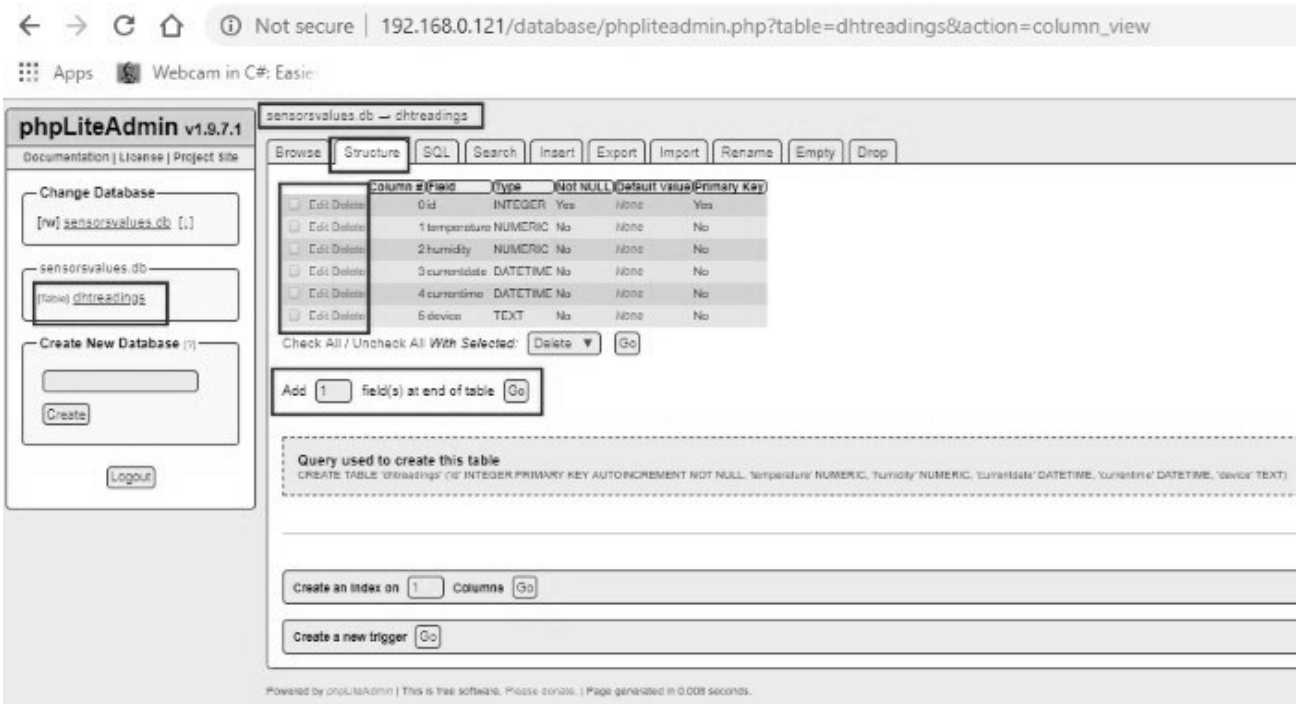
Powered by phpLiteAdmin | This is free software. Please donate. | Page generated in 0.0081 seconds.

12.

13. Press **Create** button.

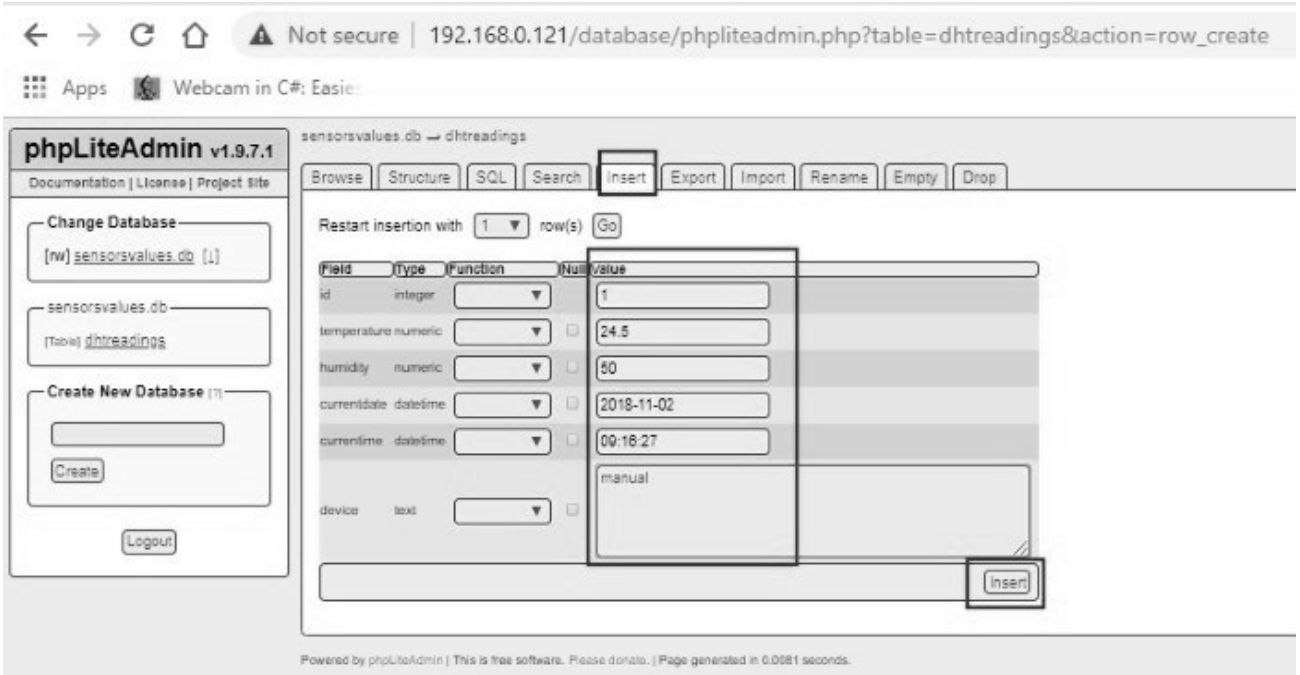
14. Open the **Structure** tab. You can see the settings of each column and you can change them if necessary.





15.

16. Right now the table has 6 columns but do not have any rows. To add rows go to the **Insert** tab and add rows 1 and 2.



17.

18.

19. Go to the **Browse** tab now. Inside that table you can see two rows:

20.

21. Click on **sensorvalues.db** in the **Change database** field if you want to add new table in the database. Go to the **Create new table** field, enter **Name**, **Number of fields** and press **Go** button.
22. You can also Rename or Delete database if you select **Rename database** tab or **Delete database** tab.

The screenshot shows the phpLiteAdmin v1.9.7.1 interface. The main content area displays the following information:

- Database name: sensorsvalues.db
- Path to database: ../sensorsvalues.db
- Size of database: 12 KB
- Database last modified: 5:59pm on November 19, 2018 (EET)
- SQLite version: 3.16.2
- SQLite extension (?:) PDO
- PHP version: 7.0.30-0+deb9u1
- phpLiteAdmin version: 1.9.7.1

A table named 'dhtreadings' is listed with 2 records. The interface also includes options to create new tables or views on the database.

23.

24. As you can see it more easy to use phpLiteAdmin then send SQL commands through a terminal window. You can add, remove, update all data through a simple user interface.

### Summary

We have learnt how to install phpLiteAdmin, a web-based user interface written in PHP that makes it easy to interact with SQLite databases, on Raspberry PI 3 model B board.

### Library

- No libraries needed in this project

### Sketch

- No sketches needed in this project

The screenshot shows a notification banner from DuckDuckGo. The text reads:

**DuckDuckGo blocked this Facebook Page**

We blocked Facebook from tracking you when the page loaded. If you unblock this page, Facebook will know your activity. [Learn More](#)

**Unblock Page**

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