*Setup

sudo apt-get update
sudo apt-get install virtualbox-guest-dkms -y

*Enable repositories
sudo add-apt-repository "deb http://archive.ubuntu.com/ubuntu $(lsb_release -sc) main universe restricted multiverse"
sudo apt-get build-dep apache2
sudo apt-get install libxml2-dev
sudo apt-get install autoconf

*Download and install MySQL
sudo apt-get install mysql-server
pass: sqliscool
*Create database
*login to MySql →   mysql -u root -p
CREATE DATABASE GPA_Tracker;
*Create users
CREATE USER 'sec_user'@'localhost' IDENTIFIED BY 'Uzg82t=u%#bNgPJw';
 GRANT CREATE, DROP, DELETE, INSERT, SELECT, UPDATE ON GPA_Tracker.* TO 'sec_user'@'localhost';
CREATE USER 'admin'@'localhost' IDENTIFIED BY 'Fiugpatf2016';
GRANT ALL ON GPA_Tracker.* TO 'admin'@'localhost';
* Install git
sudo apt-get install git
* Setup git
git config --global user.name "Johann Henao"
git config --global user.email "jhena005@fiu.edu"
* Clone github repository
* Create directory
mkdir /home/sproject
cd /home/sproject
git clone latest Project url
cd to latest Project path
git checkout development

* Import database - located in /home/sproject/GPA2/Code/Database
the unzip password is: sqliscool
to import the db:
mysql -u root -p GPA_Tracker < DB.sql

Download to user's home folder and Install apache
sudo apt-get update
sudo apt-get install libpcre3 libpcre3-dev

cd /home/userfolder/Downloads
wget http://archive.apache.org/dist/httpd/httpd-2.4.18.tar.gz
unzip: $ tar -xzvf httpd-2.4.18.tar.gz
* Install apr, apr-util follow instructions at: http://httpd.apache.org/docs/2.4/install.html
cd into directory
sudo ./configure
sudo make
sudo make install

* From /home/userfolder/Downloads Download pthread library
wget http://pecl.php.net/get/pthreads-2.0.10.tgz
unzip: $ tar -xzvf pthreads-2.0.10.tgz

* From /home/userfolder/Downloads Download and install php
wget -O php-5.6.18.tar.gz http://php.net/get/php-5.6.18.tar.gz/from/this/mirror
unzip: $ tar -xzvf php-5.6.18.tar.gz
mv pthreads-2.0.10 php-5.6.18/ext/pthreads (from downloads folder)
cd into php-5.6.18
rm -rf aclocal.m4
rm -rf autom4te.cache/
./buildconf --force
./configure --help | grep pthreads

Ensure it shows enable-pthreads
./configure --with-apxs2=/usr/local/apache2/bin/apxs --with-mysql --with-mysqli
--enable-mbstring --enable-soap --enable-maintainer-zts --enable-pthreads --enable-sysvsem
--enable-sysvshm --enable-sysvmsg --enable-json
make
sudo make install

Note if you get errors with make then try "make clean" first.

Configure Apache
Edit /usr/local/apache2/conf/httpd.conf
<FilesMatch \.php$>
    SetHandler application/x-httpd-php
</FilesMatch>

ServerName localhost
DocumentRoot: The directory out of which you will serve your
documents. By default, all requests are taken from this directory, but
symbolic links and aliases may be used to point to other locations.
DocumentRoot "/home/sproject/GPA2/Code/WebSite/fiugpatf"
<Directory "/home/sproject/GPA2/Code/WebSite/fiugpatf">
    Options Indexes FollowSymLinks MultiViews
    AllowOverride None
    Require all granted
</Directory>
<DirectoryMatch "/home/sproject/GPA2/Code/WebSite/fiugpatf">
php_admin_value auto_prepend_file
"/home/sproject/GPA2/Code/WebSite/fiugpatf/common_files/toLog.php"
</DirectoryMatch>

* Configure php
Copy php.ini-development from php-5.8.18 to /usr/local/lib as php.ini
Edit php.ini
date.timezone = 'America/New_York'
change: session.cache_limiter = public
uncomment: session.save_path = "/tmp"
uncomment: always_populate_raw_post_data = -1

* Install Python
sudo apt-get install python-pip python-dev build-essential
sudo pip install --upgrade pip
sudo pip install --upgrade virtualenv
sudo pip install PyPDF2

* (OPTIONAL) INSTALL PHPMYADMIN …
Download latest version of phpMyAdmin and extract it to /var/www/phpmyadmin

```
adduser phpmy
```

```
passwd phpmy   (If password was not set in previous command)
```

```
On /var/www/
```

```
chown -R phpmy.daemon phpmyadmin/
```

```
mkdir config
```

```
chmod o+rw config
```

```
cp config.sample.inc.php config/config.inc.php
```

```
chmod o+w config/config.inc.php
```

```
* Make sure phpmy and daemon users can write to config/config.inc.php
```

```
Edit config.inc.php and enter a 32 character string for $cfg as:
```

```
$cfg['FIU GPA TRACKER AND FORECASTER12#'] = ''; /* YOU MUST FILL IN THIS FOR COOKIE
AUTH! */
```

apt-get install libbz2-dev
apt-get install libmcrypt-dev
```
apt-get install zlib1g-dev
```

From /php-5.6.18 folder:

rm -rf aclocal.m4
rm -rf autom4te.cache/
./buildconf --force
./configure --help | grep pthreads
Ensure it shows enable-pthreads

./configure --with-apxs2=/usr/local/apache2/bin/apxs --with-mysql --with-mysqli --with-bz2
--with-zlib --enable-zip --enable-mbstring --with-mcrypt --enable-soap --enable-maintainer-zts
--enable-pthreads --enable-sysvsem --enable-sysvshm --enable-sysvmsg --enable-json

make
make install

Setup access to mysql:
http://localhost:81/phpmyadmin/setup/index.php
Click on "new server"
On Authentication tab, select Authentication type 'signon'
Enter mysql root password

* END SETUP OF PHPMYADMIN

!!! NEXT -> READ README IN WEBSITE FOLDER !!!