

Windows Manual Installation for Web Server

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I. Install Python

Install Python 3 Windows x86-64 executable installer. Usually Python 3 is installed by default in the AppData folder, you will need to choose *Customize installation*, add the following directory for your custom installation:

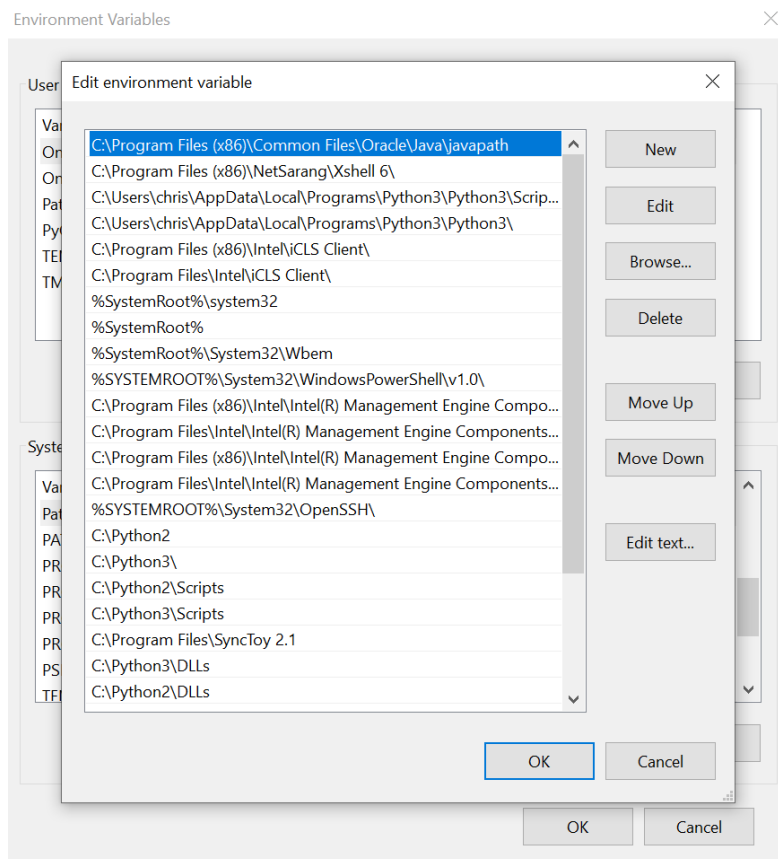
C:\Python3

After that go to Python3 folder in your and rename python.exe as **python3.exe**.

II. Add Python to the PATH – Environmental Variables

Add the following directories to the PATH Environmental Variables

- **C:\Python3**
- **C:\Python3\Scripts**



Open CMD and confirm by typing *python3* if you can call both python environments.

```
C:\Users\chris>python3
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

III. Install python packages/libraries

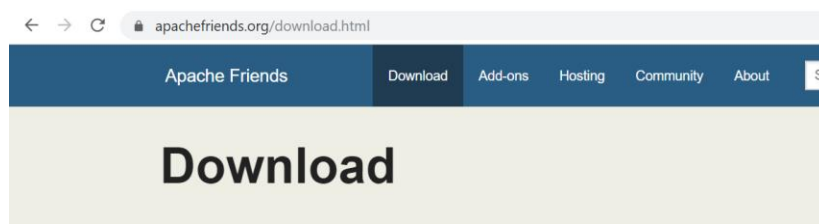
Packages for python3. Use the following command in your CMD

python3 -m pip install <package name>

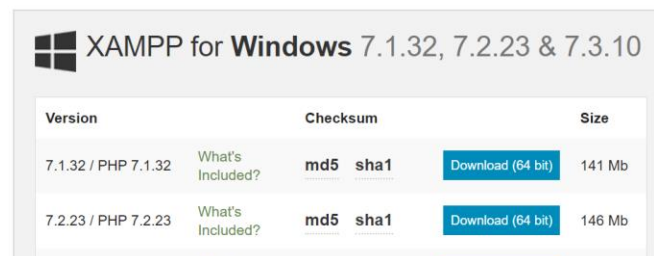
- mysql-connector
- numpy
- matplotlib
- beautifultable
- prettytable

IV. Install XAMPP

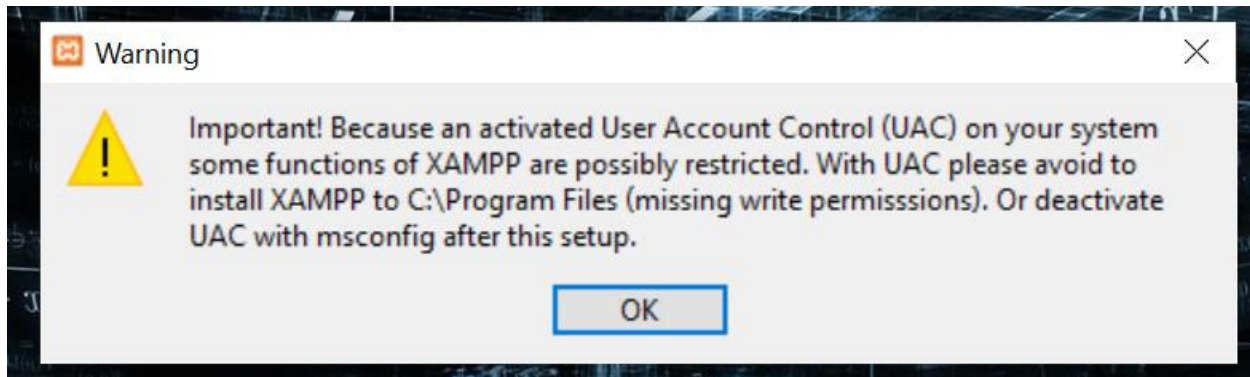
Search ***XAMPP*** for Windows installer in your Browser.



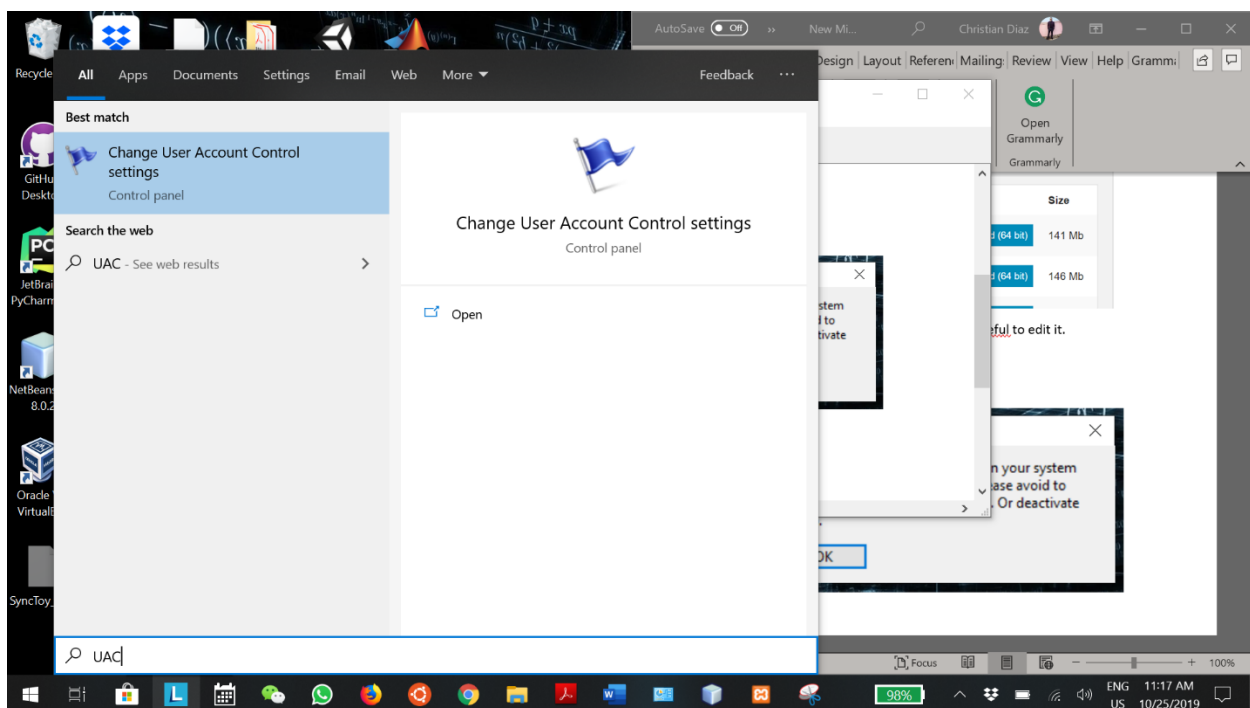
XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy.



After you have opened XAMPP installer, you might have the following warning.



If so, open you User Account Control (UAC) as shown below:



Then scroll down from always notify to **Never notify**.

User Account Control Settings

Choose when to be notified about changes to your computer

User Account Control helps prevent potentially harmful programs from making changes to your computer.

[Tell me more about User Account Control settings](#)


Always notify



Never notify

Never notify me when:

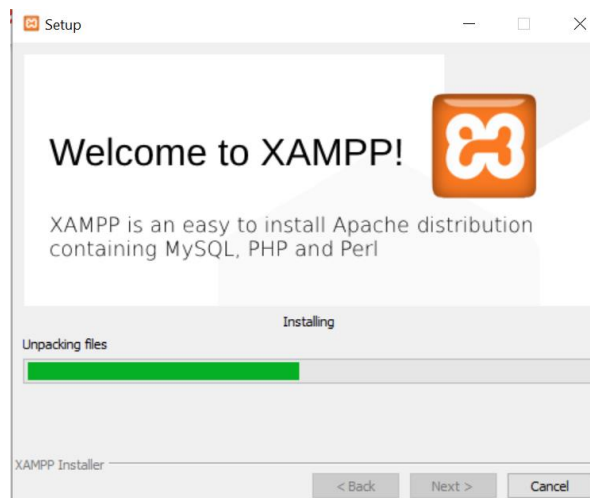
- Apps try to install software or make changes to my computer
- I make changes to Windows settings

 Not recommended.

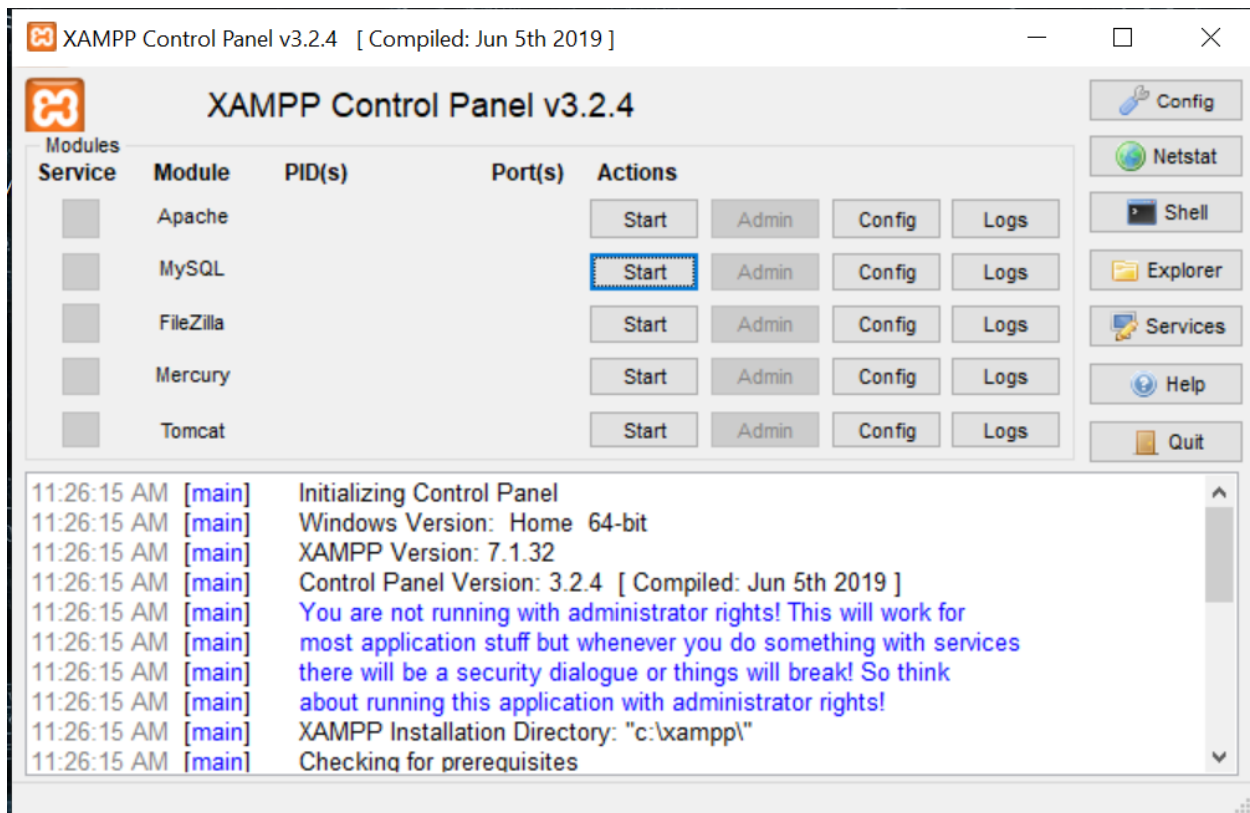


Cancel

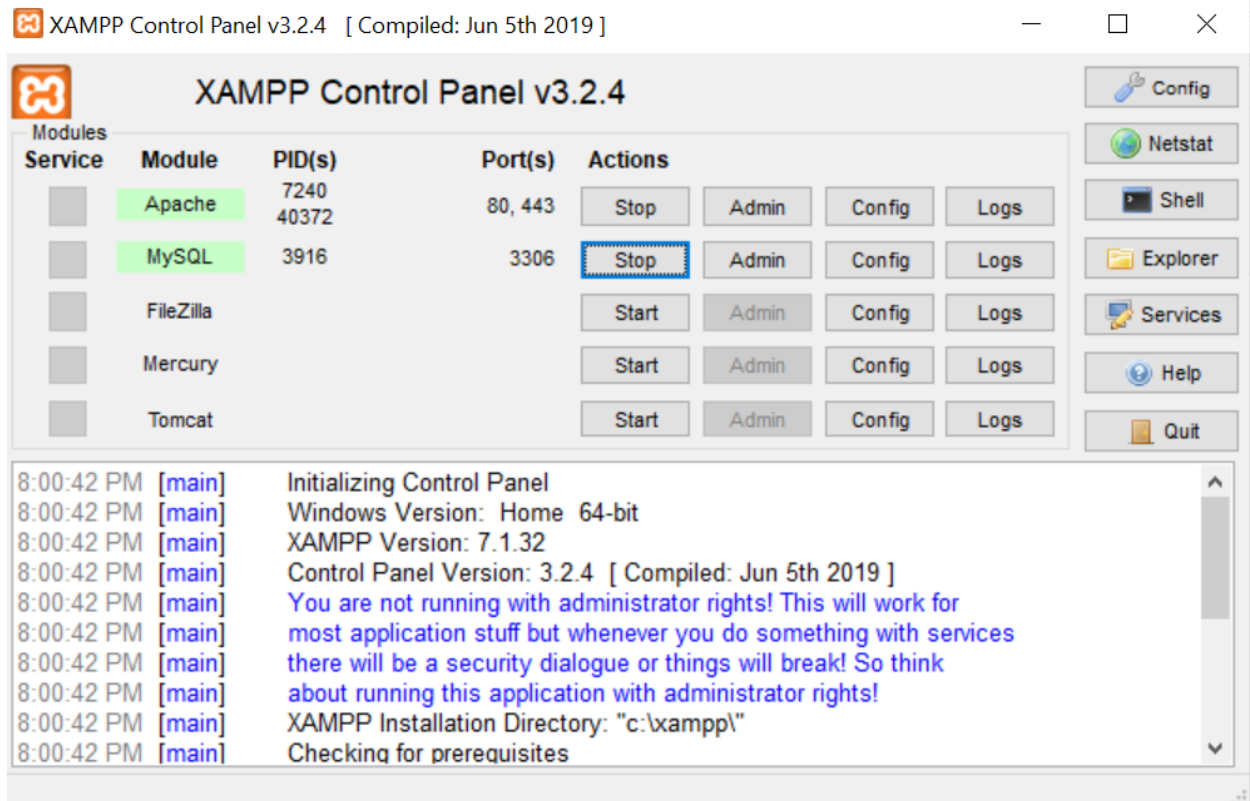
Click OK and save change. Then, try to install XAMPP again.



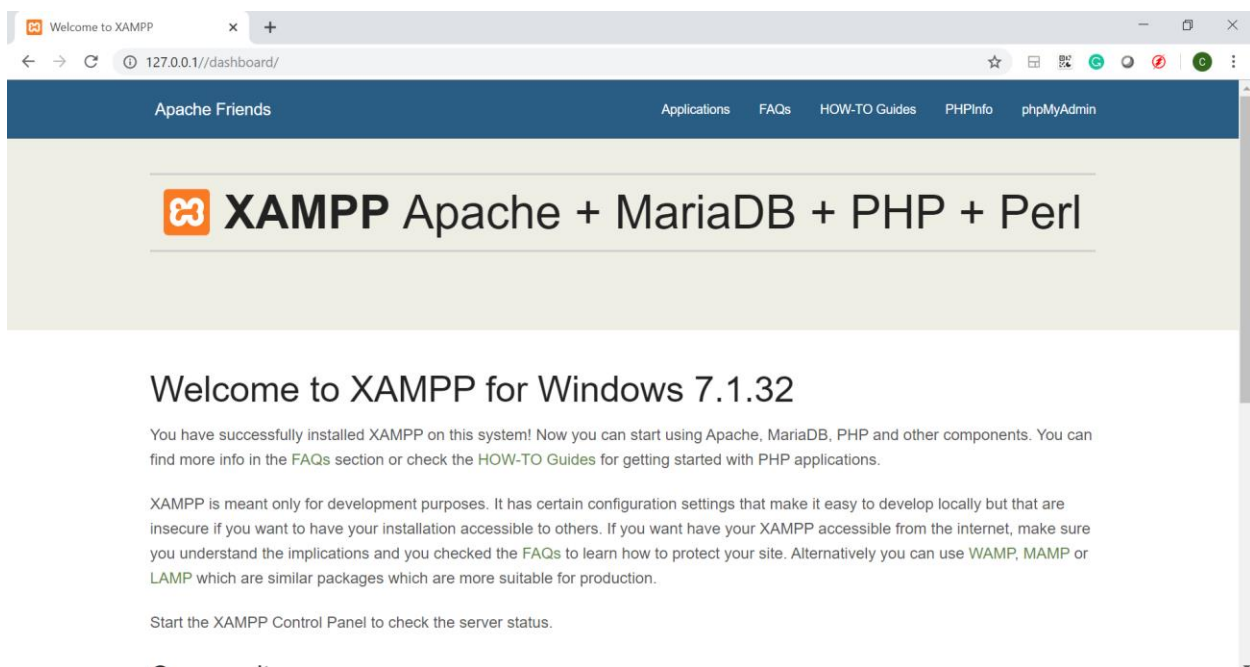
After installed, run Apache and MySQL:



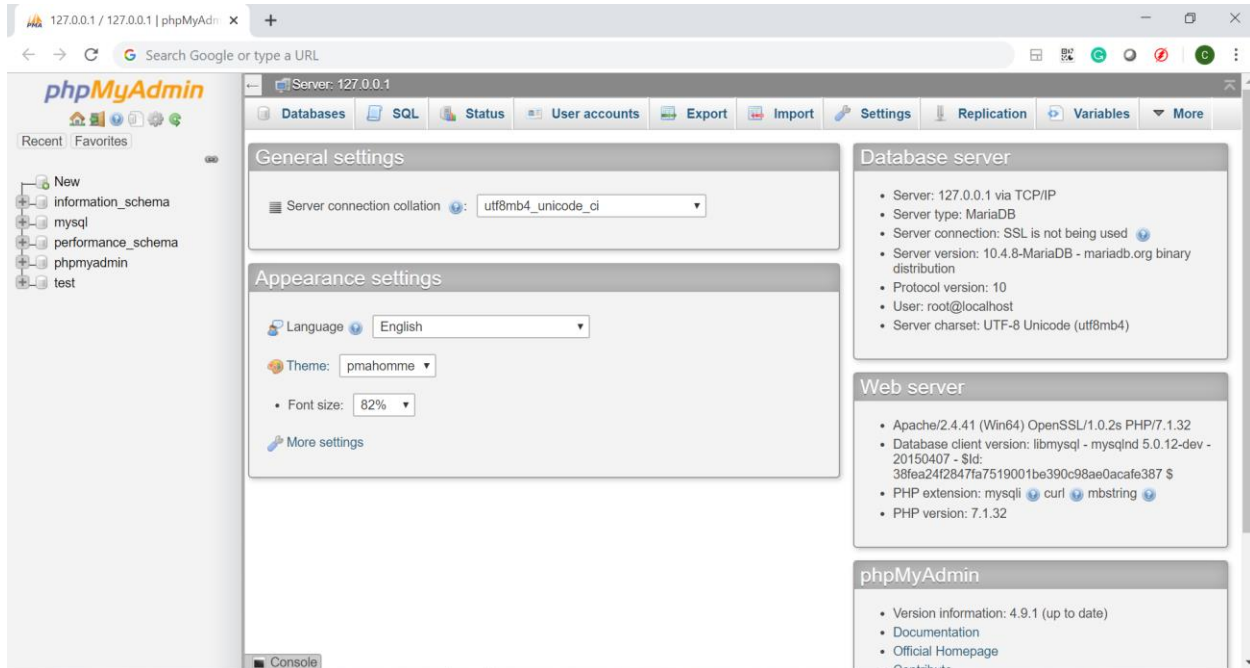
Run Apache server and MySQL database by a clicking on Start button, Sometimes, after the first time you run it , see below if there are error message in red color, if so, maybe the XAMPP default port is in use by other software in your machine. You will need to find online reference to fix it. If everything is fine, will looks like below.



Verify XAMP is working, open your browser and type 127.0.0.1. It is the Local host IP address.



Verify if Database is working by typing in your browser <http://127.0.0.1/phpmyadmin/>



V. Copy web server files

XAMPP by default will be installed in the following directory:

C:\xampp

and there will be a folder named **htdocs**. There is where xampp save the webserver files and projects.

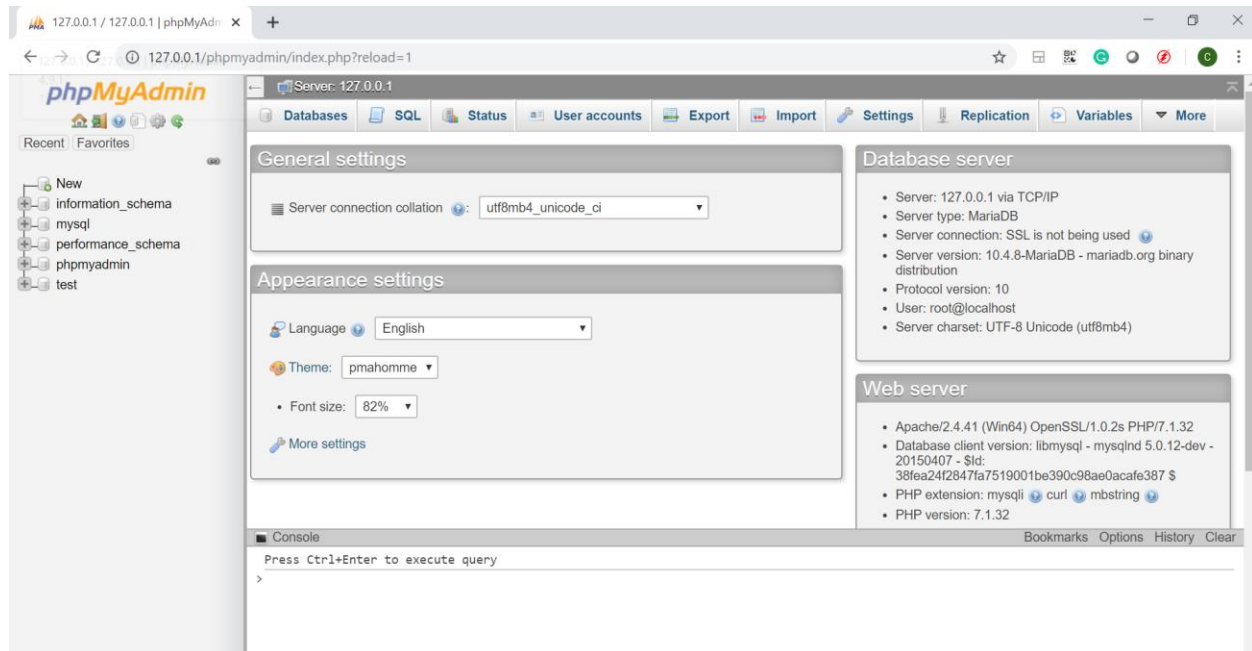
Extract all the files form **webserver_package.zip** and copy everything inside the folder **Web_server_files** in the following directory:

C:\xampp\htdocs

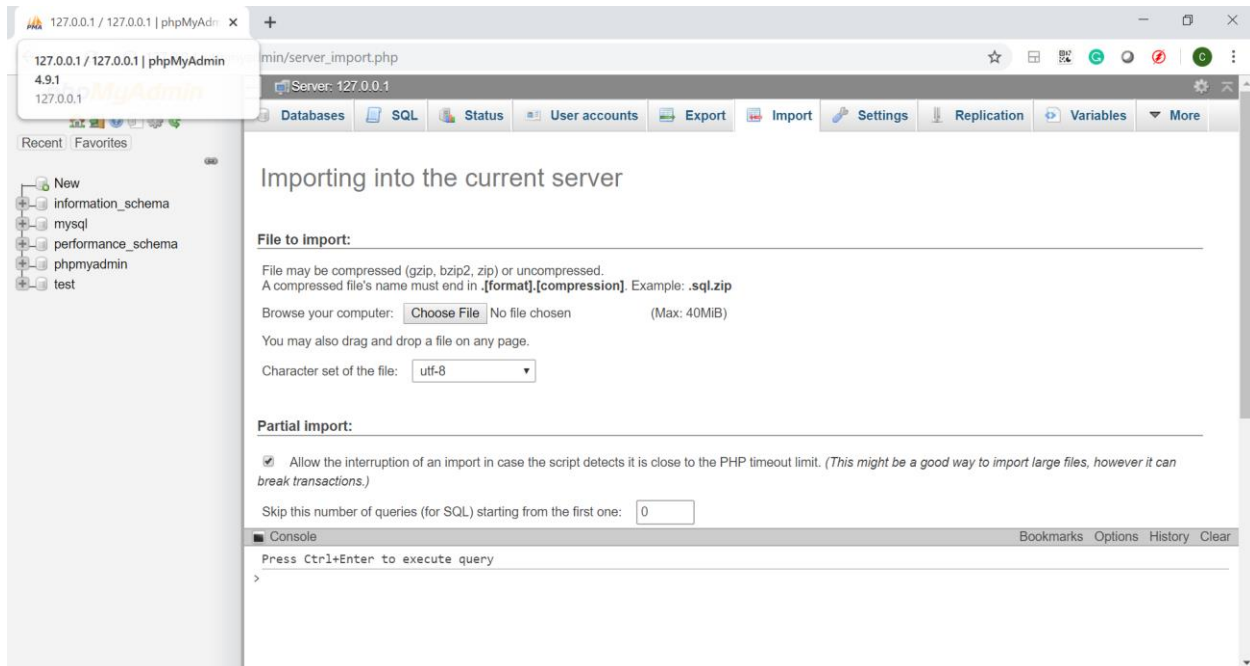
VI. Create the database

In your browser, go to <http://127.0.0.1/phpmyadmin/>

See in the left size of the page, Click on *New* just above *information_schema*



After that, click on IMPORT, and below select Choose file

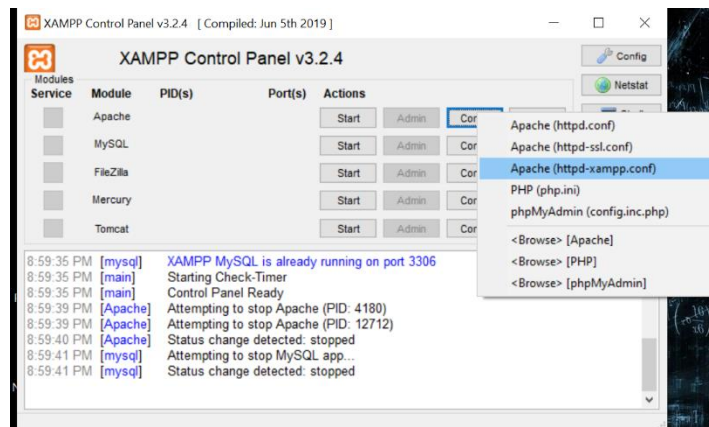


Search for **database.txt** available in the package `web_server_files.zip`

After you have selected the file, scroll down and select **Go**, and your database called *humanterrain* will be created with two tables.

VII. Intranet

Open XAMPP and click on Apache config and select *httpd-xampp.conf*



This file will be opened as a text document. Find where say **Require local** and replace it with **Require all granted**. The document use require local like 2 or 3 times, all depend the version you are using. Make sure you replace all of them. Also, make sure that **Require** is first capital

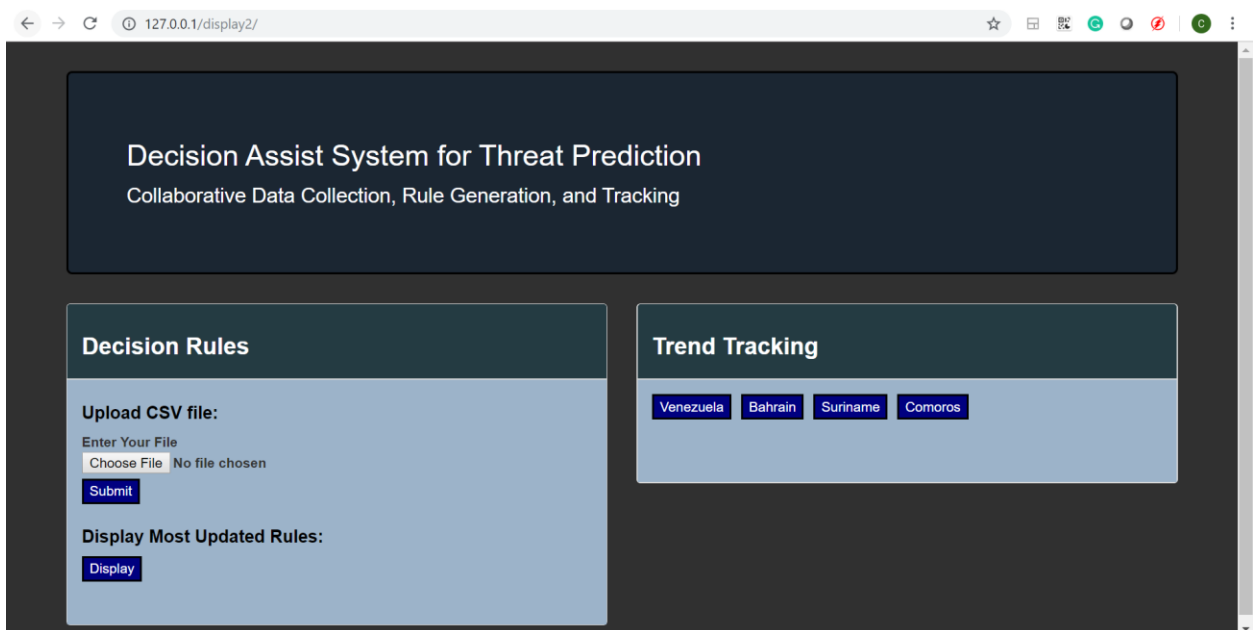
letter and **all granted** is all lower case. After that, save the change and open your CMD, find your IP address for LAN Wi-Fi.

Once you get your IP address, you can access the web server from any device connected to the same LAN using the IP address in the URL. For example: 10.0.0.0.212/display2

VIII. Testing

You are done.

From you Brower go to 127.0.0.1/display2 or use your **IPaddress/display2**.



You can read the second manual about how to use the web server. CSV files for testing are attached in the **webserver_package.zip** in a folder called *Validation Set Real Data*.

IX. For Developers

If you want to make change or improvements and the web-server files, you can use Neatbean.

Search for Neatbeans dowloand and select the free download that support **All** the technologies, in the picture below, it is the last column, Downlaad free, 205 MB

HOME / Download

NetBeans IDE 8.0.2 Download

8.0.1 | 8.0.2 | 8.1 | Development | Archive

Email address (optional):

Subscribe to newsletters: ☒ Monthly ☐ Weekly

☒ NetBeans can contact me at this address

IDE Language: English Platform: Windows

Note: Greyed out technologies are not supported for this platform.

NetBeans IDE Download Bundles

Supported technologies *	Java SE	Java EE	C/C++	HTML5 & PHP	All
NetBeans Platform SDK	•	•			•
Java SE	•	•			•
Java FX	•	•			•
Java EE		•			•
Java ME					•
HTML5		•		•	•
Java Card™ 3 Connected					•
C/C++			•		•
Groovy					•
PHP				•	•
Bundled servers					
GlassFish Server Open Source Edition 4.1		•			•
Apache Tomcat 8.0.15		•			•

Download Download Download Download Download

Free, 90 MB Free, 186 MB Free, 63 MB Free, 63 MB Free, 205 MB

Open the installer and verify if you have a warning saying that your JDK was not found or it is not compatible, as shown below. If so, cancel the installation and download JDK 8.

Welcome to the NetBeans IDE 8.0.2 Installer

The installer will install the NetBeans IDE with the following packs and runtimes. Click Customize to select the packs and runtimes to install.

Base IDE
Java SE
Java EE
Java ME
HTML5
Java Card™ 3 Connected
C/C++
Groovy
PHP
Features on Demand

Runtimes

GlassFish Server Open Source Edition 4.1 (Already Installed)



Search online Java SE Development Kit 8 (JDK8) and download the installer for Windows64x. It could be possible you need to create a free account with Oracle to be allow the download.

oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

- Java Developer Newsletter: From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- Java Developer Day hands-on workshops (free) and other events
- Java Magazine

JDK 8u231 checksum

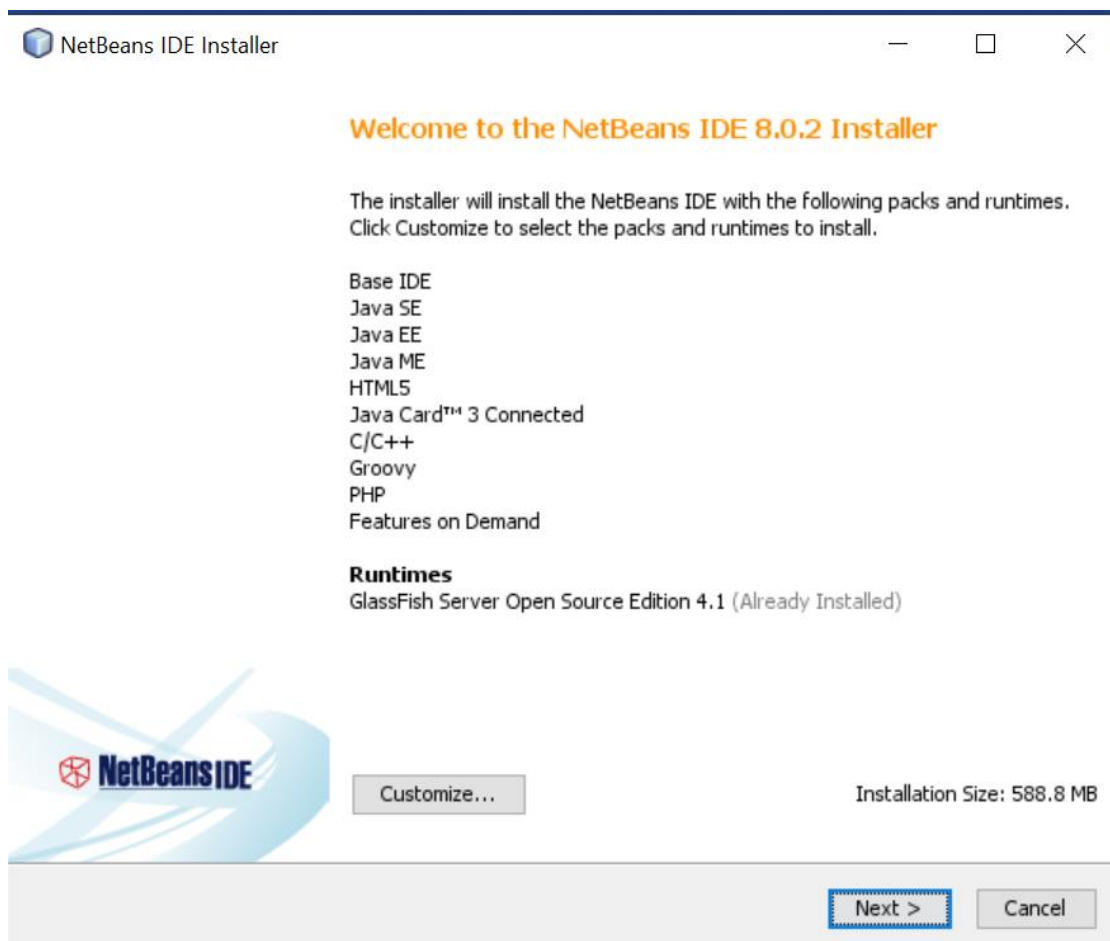
Java SE Development Kit 8u231

You must accept the [Oracle Technology Network License Agreement for Oracle Java SE](#) to download this software.

☒ Accept License Agreement
 ☐ Decline License Agreement

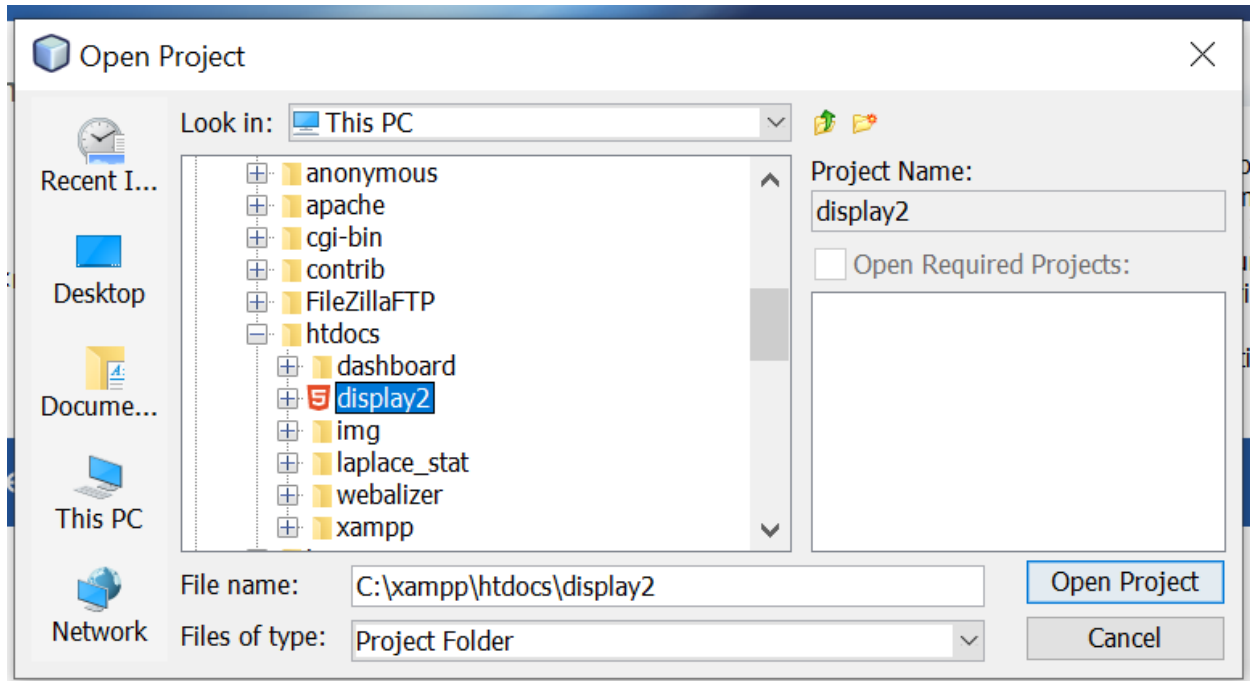
Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.9 MB	jdk-8u231-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.8 MB	jdk-8u231-linux-arm64-vfp-hflt.tar.gz
Linux x86	170.93 MB	jdk-8u231-linux-i586.rpm
Linux x86	185.75 MB	jdk-8u231-linux-i586.tar.gz
Linux x64	170.32 MB	jdk-8u231-linux-x64.rpm
Linux x64	185.16 MB	jdk-8u231-linux-x64.tar.gz
Mac OS X x64	253.4 MB	jdk-8u231-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	132.98 MB	jdk-8u231-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.16 MB	jdk-8u231-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	133.73 MB	jdk-8u231-solaris-x64.tar.Z
Solaris x64	91.96 MB	jdk-8u231-solaris-x64.tar.gz
Windows x86	200.22 MB	jdk-8u231-windows-i586.exe
Windows x64	210.18 MB	jdk-8u231-windows-x64.exe

Install JDK 8 and then try to install Netbeans again, there should be no warning message.

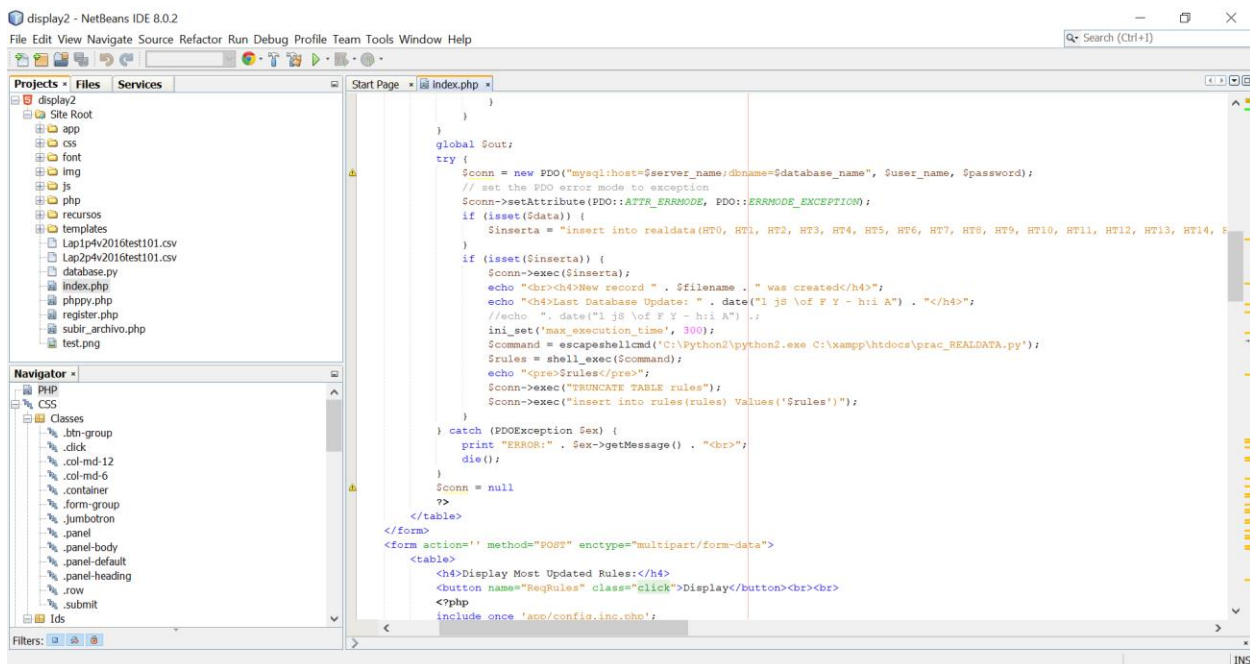


After you have installed Neatbeans, you can select Open Project, and find the folder display2 from

C:\xampp\htdocs



Web server project files will be displayed as below:



GitHub link to download the following items:

1. **Webserver_package.zip**
2. **Manual Installation for Web Server.pdf**
3. **User's Guide for Web Server Administrator - Step by Step.pdf**

https://github.com/cdiazcaez/webserver_kim_diaz.git