

CORE MODULE 3

PHP With MongoDB Connection

Install Composer

STEP1: Go to the browser and type Composer

<https://getcomposer.org/> click this link to Download composer



GetComposer.org
<https://getcomposer.org>

Composer

A Dependency Manager for PHP ... **Composer** and all content on this site are released under the MIT license.

- Click on Download:



A Dependency Manager for PHP

Latest: **2.5.5** ([changelog](#))

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- Click on [composerSetup.exe](#) it.

Download Composer Latest: v2.5.5

Windows Installer

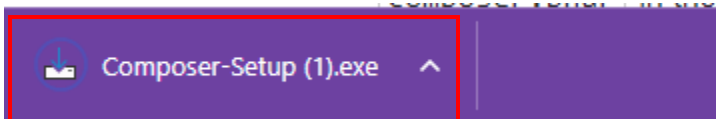
The installer - which requires that you have PHP already installed - will download Composer for you and set up your PATH environment variable so you can simply call `composer` from any directory.

Download and run **Composer-Setup.exe** - it will install the latest composer version whenever it is executed.

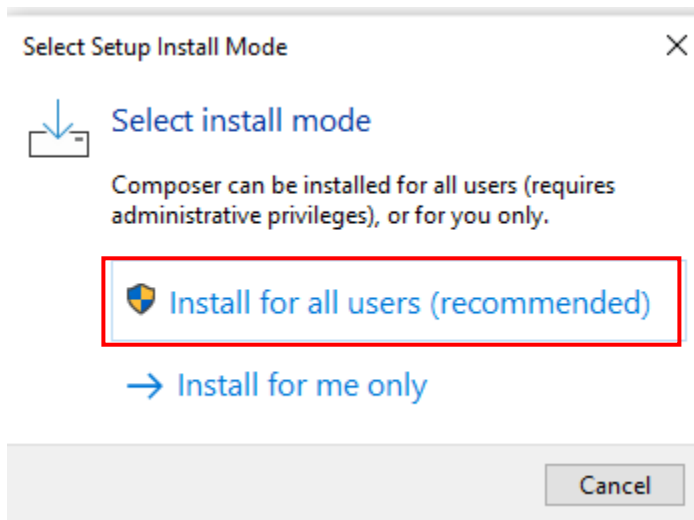
Command-line installation

To quickly install Composer in the current directory, run the following script in your terminal. To automate the installation, use [the guide on installing Composer programmatically](#).

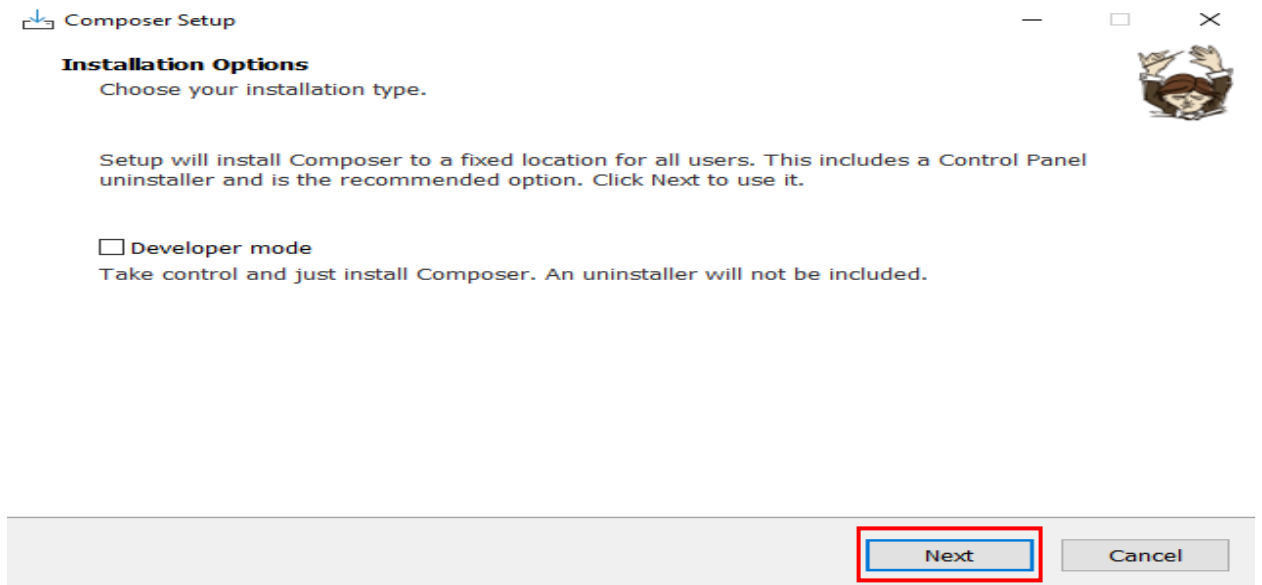
- After download open .exe file



- Install Composer in your System:
 - i) Select install for all user:

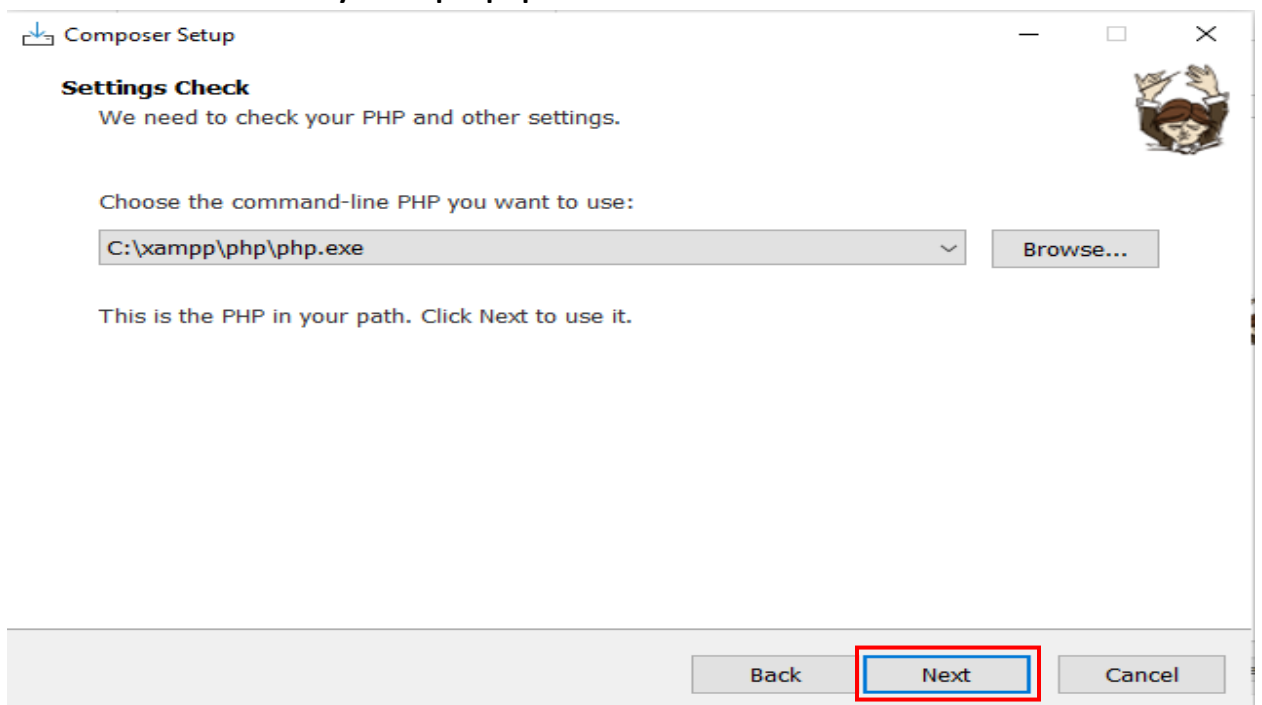


- ii) Click on Yes Composer setup.
 - iii) Click on next.

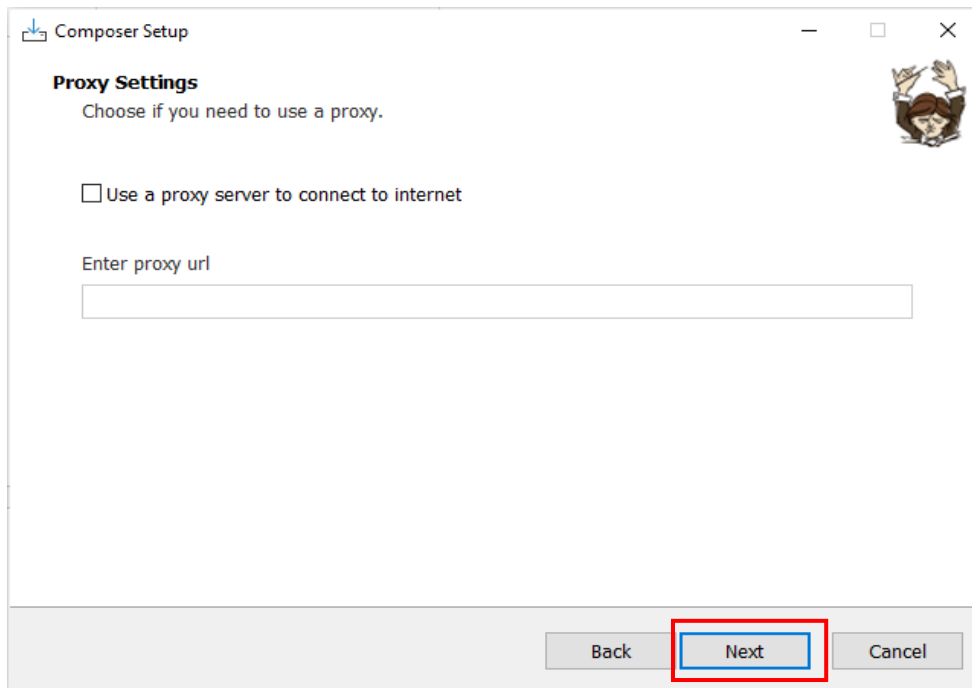


iv) Set path :

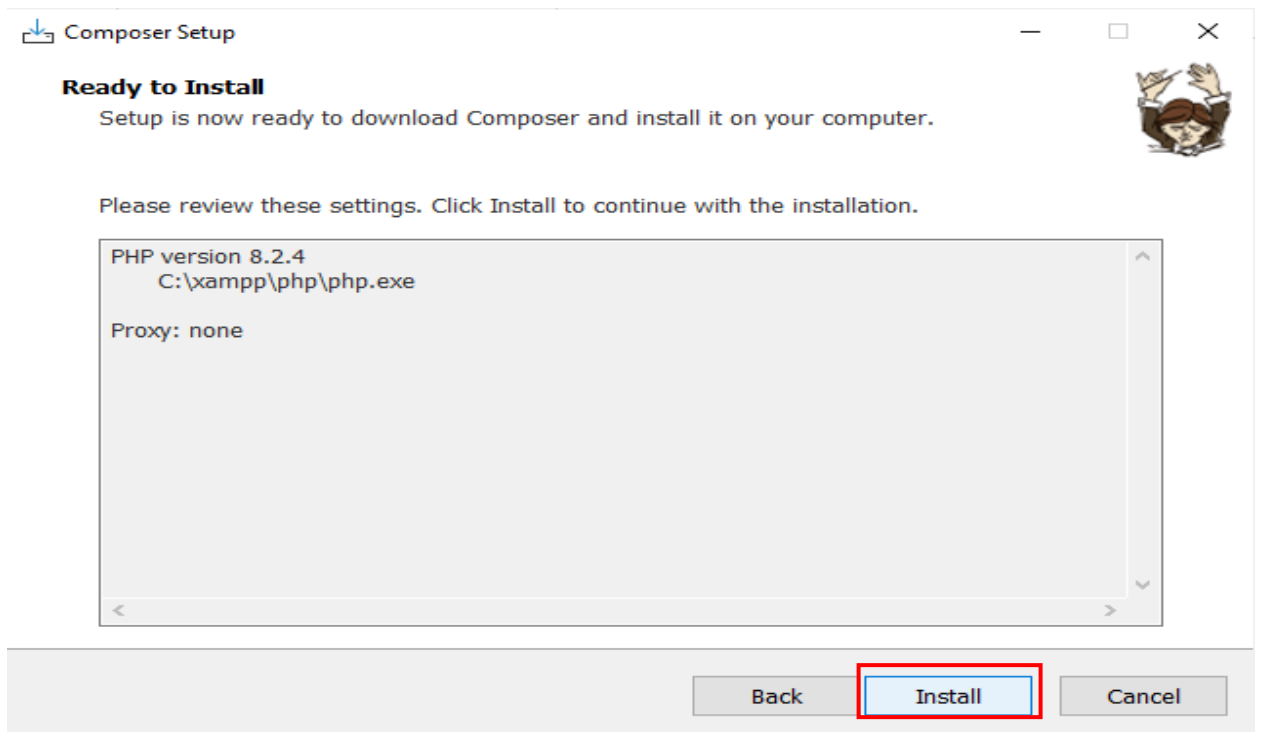
- Choose your php path then click on next.



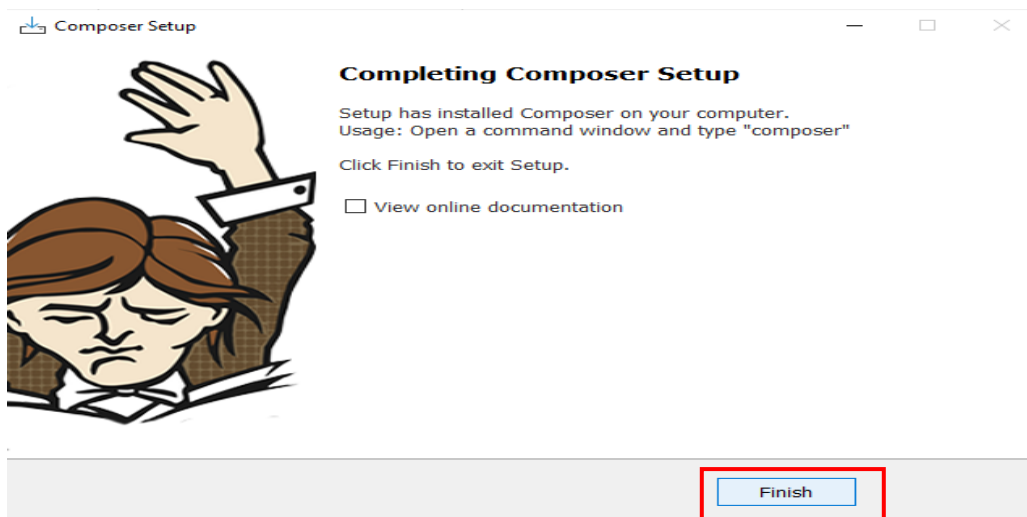
v) Click on next.



vi) Click on Install.

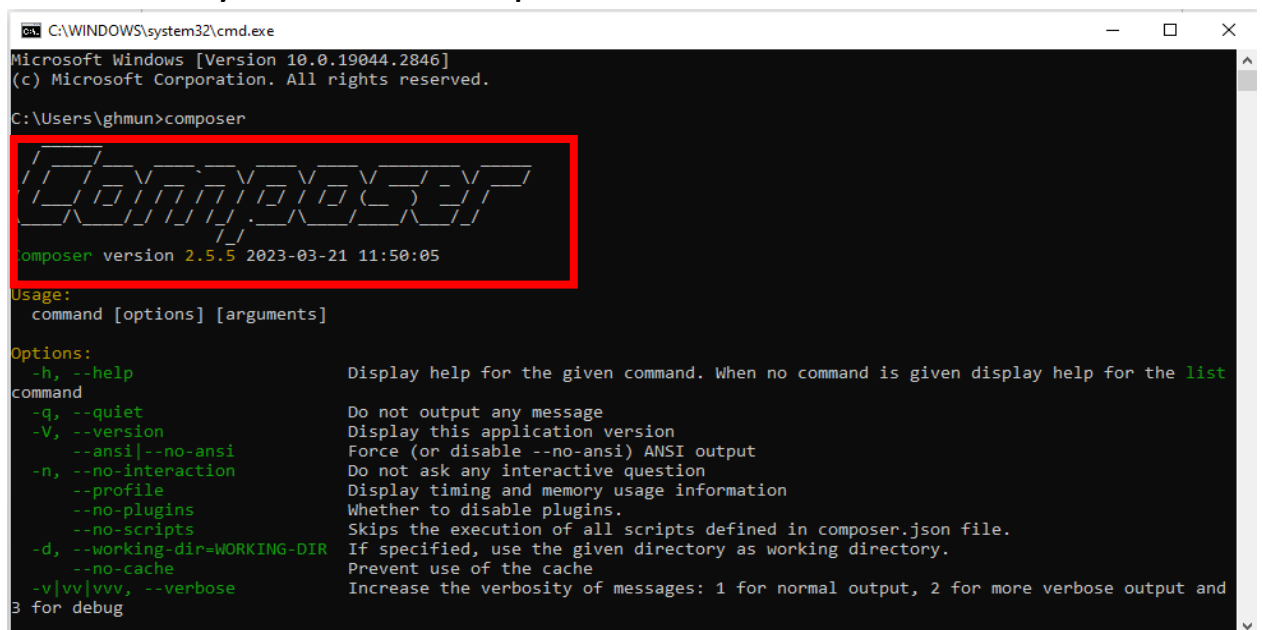


vii) Click on Finish.



NOTE:

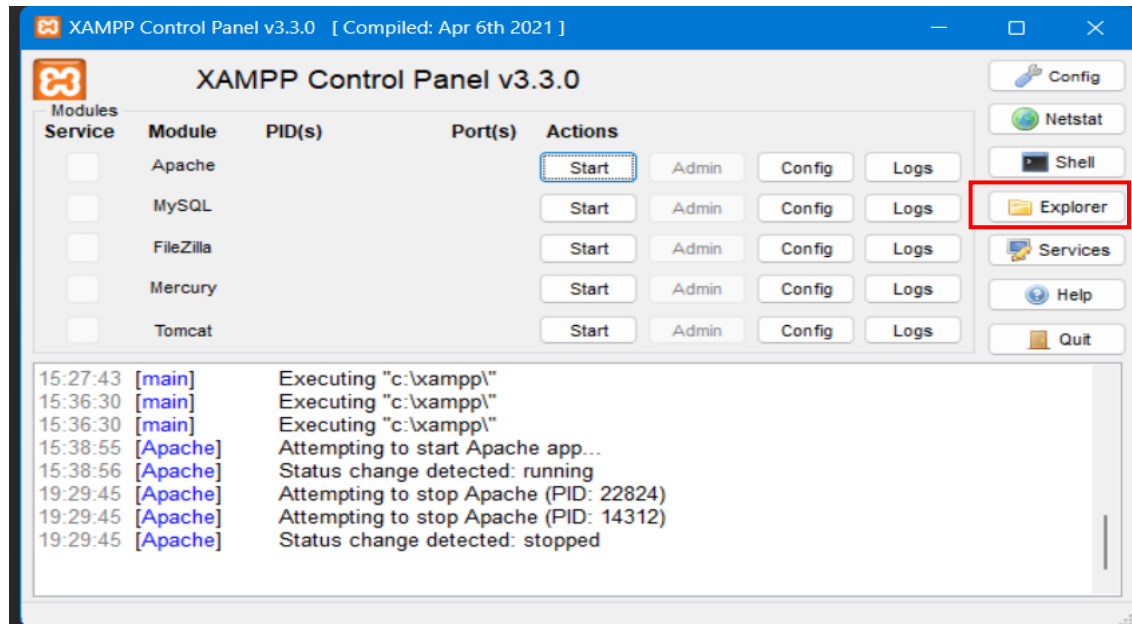
After that check Composer successfully installed or not! Go to Command Prompt(cmd)-----> then type composer-----> hit enter-----> then if you are able to see the Composer version that means you are successfully installed Composer.

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\WINDOWS\system32\cmd.exe'. The text inside the window shows the command prompt path 'C:\Users\ghmun>' followed by the command 'composer'. The output is a large, stylized 'COMPOSER' logo in a green, blocky font, with 'composer version 2.5.5 2023-03-21 11:50:05' in a smaller green font below it. This output is highlighted with a red rectangular box. Below the box, the text 'Usage: command [options] [arguments]' is visible, followed by a list of options: '-h, --help', '-q, --quiet', '-V, --version', '--ansi|--no-ansi', '-n, --no-interaction', '--profile', '--no-plugins', '--no-scripts', '-d, --working-dir=WORKING-DIR', '--no-cache', and '-v|vv|vvv, --verbose'. Each option is followed by a description of its function.

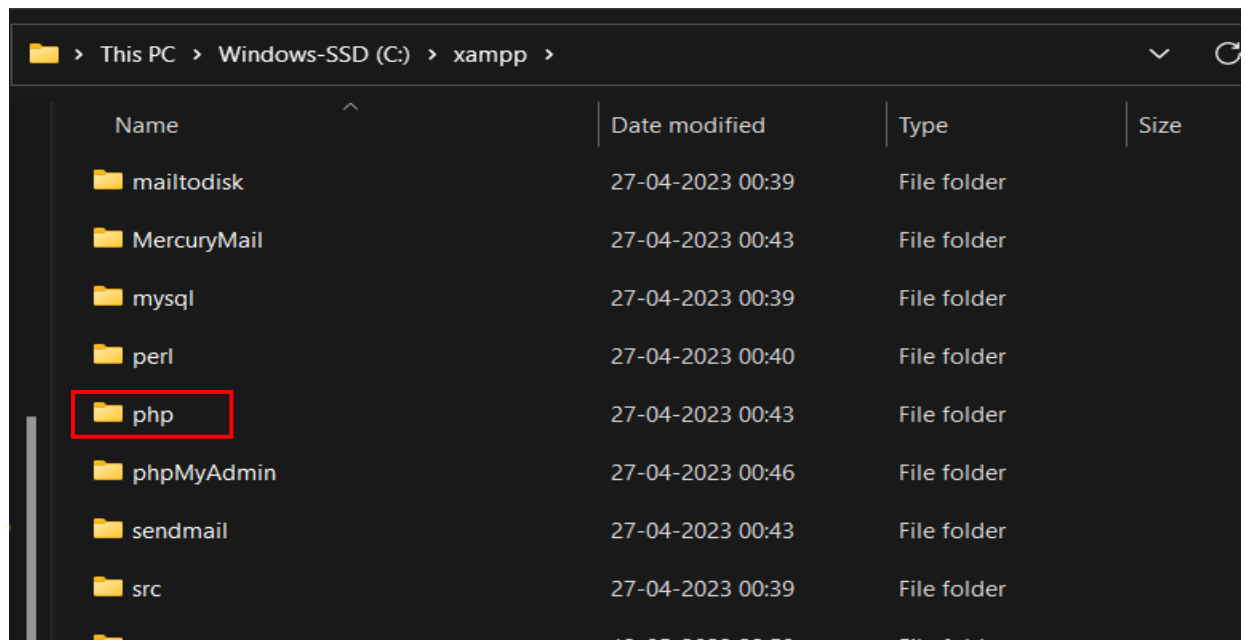
Download DLL file

STEP1: First check Your Xampp Version:

i) Go to XAMPP control panel and click on Explore

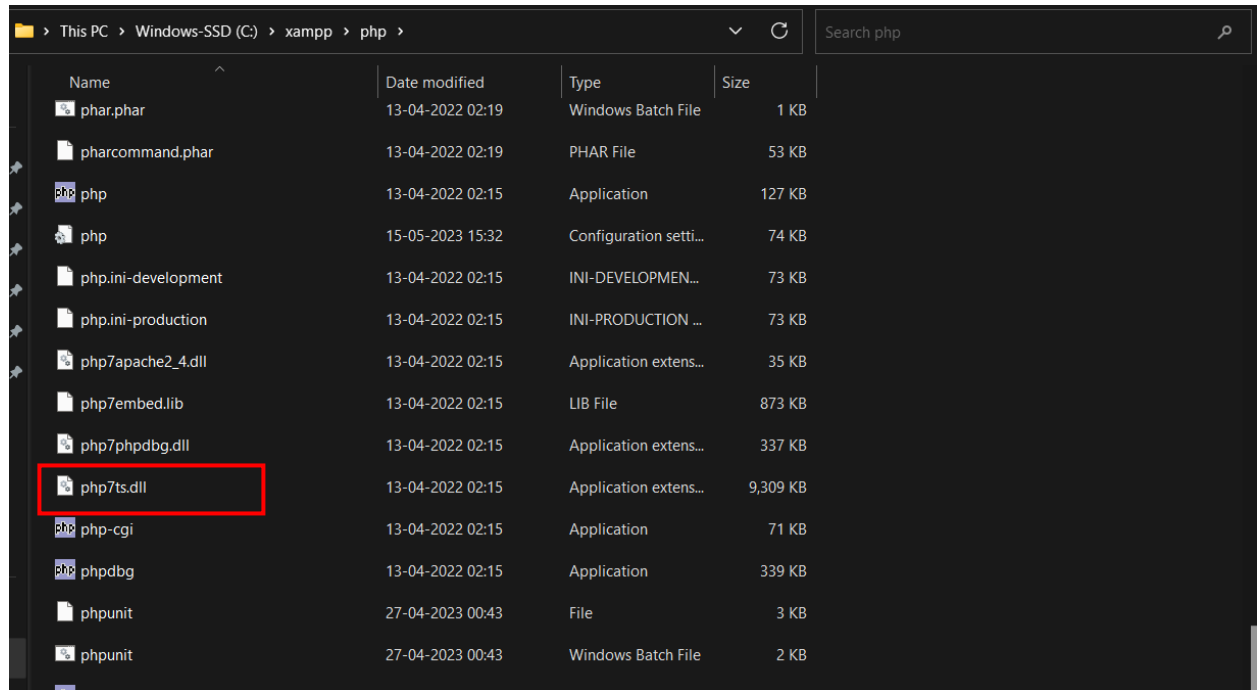


ii) Go to php folder

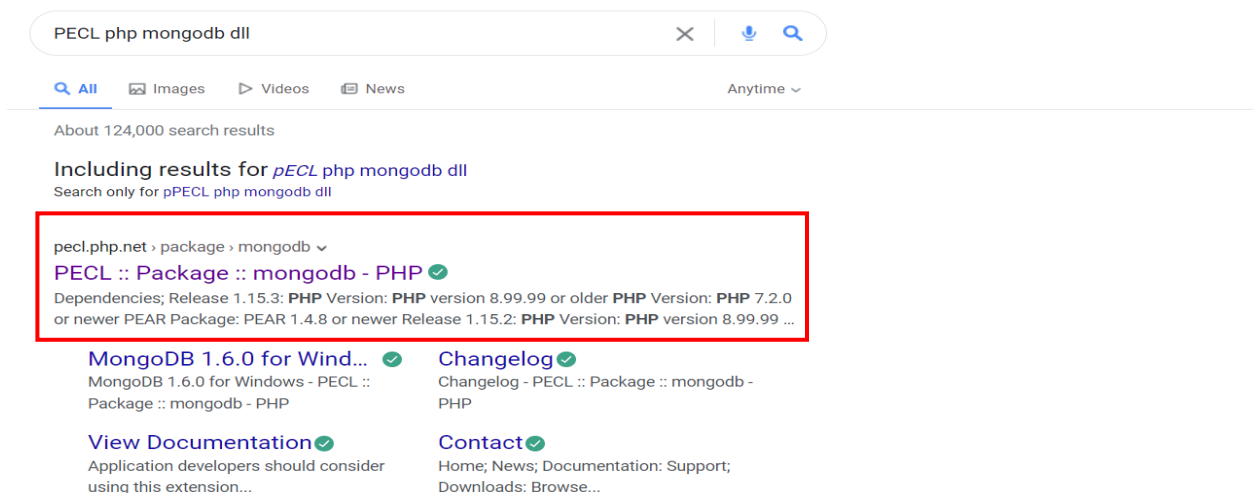


iii) scroll down there and find php file[ex:php7ts.dll, php8ts.dll etc.]

Note: there are two types of file **ts(Thread Safe)** and **NTS(None Thread Safe)** then select your type and download DLL File.



STEP 2: go to browser and type PECL php mongo dll then hit enter then click on first link:



STEP 3: then find latest version and click on DLL




Available Releases				
Version	State	Release Date	Downloads	
1.15.3	stable	2023-05-12	mongodb-1.15.3.tgz (1701.8kB)	[Changelog]
1.15.2	stable	2023-04-21	mongodb-1.15.2.tgz (1702.1kB)	[Changelog]
1.15.1	stable	2023-02-09	mongodb-1.15.1.tgz (1701.4kB)	[Changelog]
1.15.0	stable	2022-11-23	mongodb-1.15.0.tgz (1702.9kB)	[Changelog]
1.14.2	stable	2022-10-20	mongodb-1.14.2.tgz (1671.7kB)	[Changelog]
1.14.1	stable	2022-09-09	mongodb-1.14.1.tgz (1671.7kB)	[Changelog]
1.14.0	stable	2022-07-16	mongodb-1.14.0.tgz (1672.2kB)	[Changelog]
1.14.0beta1	beta	2022-06-08	mongodb-1.14.0beta1.tgz (1679.0kB)	[Changelog]
1.13.0	stable	2022-03-23	mongodb-1.13.0.tgz (1406.5kB) DLL	[Changelog]
1.12.1	stable	2022-02-22	mongodb-1.12.1.tgz (1361.3kB) DLL	[Changelog]
1.12.0	stable	2021-12-14	mongodb-1.12.0.tgz (1359.7kB) DLL	[Changelog]
1.11.1	stable	2021-11-02	mongodb-1.11.1.tgz (1320.2kB) DLL	[Changelog]
1.11.0	stable	2021-10-29	mongodb-1.11.0.tgz (1321.1kB) DLL	[Changelog]
1.11.0alpha1	alpha	2021-09-13	mongodb-1.11.0alpha1.tgz (1316.3kB) DLL	[Changelog]
1.10.0	stable	2021-07-13	mongodb-1.10.0.tgz (1300.0kB) DLL	[Changelog]
1.9.2	stable	2021-07-12	mongodb-1.9.2.tgz (1256.9kB) DLL	[Changelog]
1.10.0alpha1	alpha	2021-04-09	mongodb-1.10.0alpha1.tgz (1293.7kB) DLL	[Changelog]
1.9.1	stable	2021-04-07	mongodb-1.9.1.tgz (1255.8kB) DLL	[Changelog]
1.9.0	stable	2020-11-25	mongodb-1.9.0.tgz (1269.9kB) DLL	[Changelog]
1.9.0RC1	beta	2020-11-10	mongodb-1.9.0RC1.tgz (1269.6kB) DLL	[Changelog]
1.8.2	stable	2020-11-05	mongodb-1.8.2.tgz (1262.3kB) DLL	[Changelog]

STEP 4: Download DLL file(zip folder)

for example: if your **php version is 7ts** then download PHP:- **7.4 Thread safe(TS)x64.**

DLL List	
PHP 8.1	8.1 Non Thread Safe (NTS) x64 8.1 Thread Safe (TS) x64 8.1 Non Thread Safe (NTS) x86 8.1 Thread Safe (TS) x86
PHP 8.0	8.0 Non Thread Safe (NTS) x64 8.0 Thread Safe (TS) x64 8.0 Non Thread Safe (NTS) x86 8.0 Thread Safe (TS) x86
PHP 7.4	7.4 Non Thread Safe (NTS) x64 7.4 Thread Safe (TS) x64 7.4 Non Thread Safe (NTS) x86 7.4 Thread Safe (TS) x86

STEP 5: Extract your DLL file downloaded folder

Today			
	php_mongodb-1.13.0-7.4-ts-vc15-x64	15-05-2023 15:28	Compressed (zipp... 2,001 KB
	Composer-Setup	15-05-2023 15:14	Application 1,762 KB
	php_mongodb-1.13.0-7.4-ts-vc15-x64	15-05-2023 15:29	File folder

STEP 6 : open that folder and Copy the **php_mongodb.dll** file.

Note: This file to help to connect with php.

Name	Date modified	Type	Size
Today			
CONTRIBUTING	15-05-2023 15:29	Markdown Source ...	18 KB
CREDITS	15-05-2023 15:29	File	1 KB
LICENSE	15-05-2023 15:29	File	12 KB
php_mongodb.dll	15-05-2023 15:29	Application extens...	1,278 KB
php_mongodb.pdb	15-05-2023 15:29	PDB File	5,780 KB
README	15-05-2023 15:29	Markdown Source ...	4 KB
THIRD_PARTY_NOTICES	15-05-2023 15:29	File	4 KB

STEP 7:Then go to PHP folder(XAMPP → PHP → ext) then pasted there copied file after that copy the file name(**php_mongodb.dll**).

This PC > Windows-SSD (C:) > xampp > php > ext				Search ext
Name	Date modified	Type	Size	
php_intl.dll	13-04-2022 02:15	Application extens...	381 KB	
php_idap.dll	13-04-2022 02:15	Application extens...	252 KB	
php_mbstring.dll	13-04-2022 02:15	Application extens...	1,414 KB	
php_mongodb.dll	15-05-2023 15:29	Application extens...	1,278 KB	
php_mysqli.dll	13-04-2022 02:15	Application extens...	110 KB	
php_oci8_12c.dll	13-04-2022 02:15	Application extens...	150 KB	
php_odbc.dll	13-04-2022 02:15	Application extens...	63 KB	

STEP 8: then go to php folder and open php.ini file(configuration setting file).

This PC > Windows-SSD (C:) > xampp > php >				
Name	Date modified	Type	Size	
phar.phar	13-04-2022 02:19	Windows Batch File	1 KB	
pharcommand.phar	13-04-2022 02:19	PHAR File	53 KB	
php	13-04-2022 02:15	Application	127 KB	
php	15-05-2023 15:32	Configuration setti...	74 KB	
php.ini-development	13-04-2022 02:15	INI-DEVELOPMEN...	73 KB	
php.ini-production	13-04-2022 02:15	INI-PRODUCTION ...	73 KB	

Then paste their copied file name between **extension=exif** and **extension=mysqli** then **save the file**.

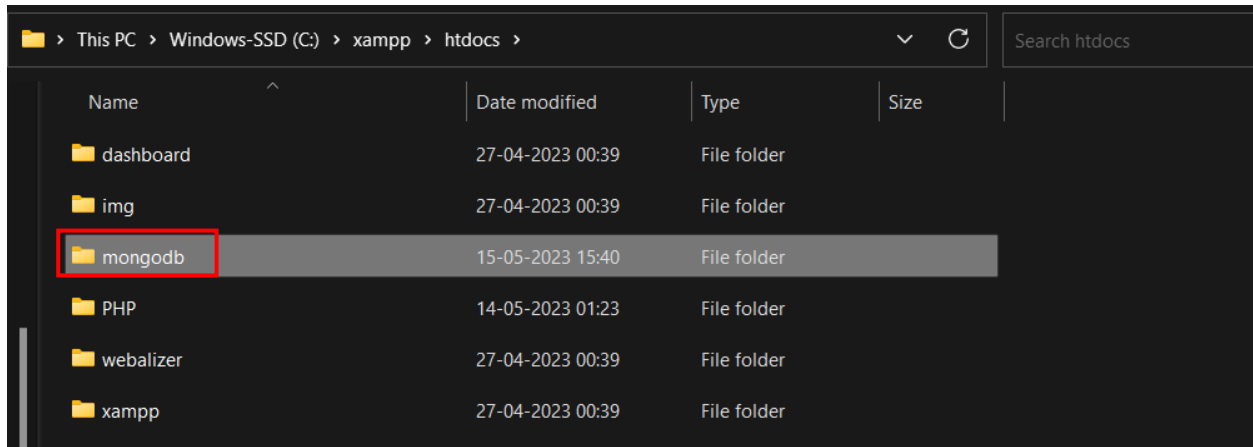
```

---
;extension=oci8
921 ;extension=intl
922 ;extension=imap
923 ;extension=ldap
924 extension=mbstring
925 extension=exif ; Must be after mbstring as it depends on it
926 extension=php_mongodb.dll
927 extension=mysqli
928 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
929 ;extension=odbc
930 ;extension=openssl
931 ;extension=pdo_firebird
932 extension=pdo_mysql
933 ;extension=pdo_oci
934

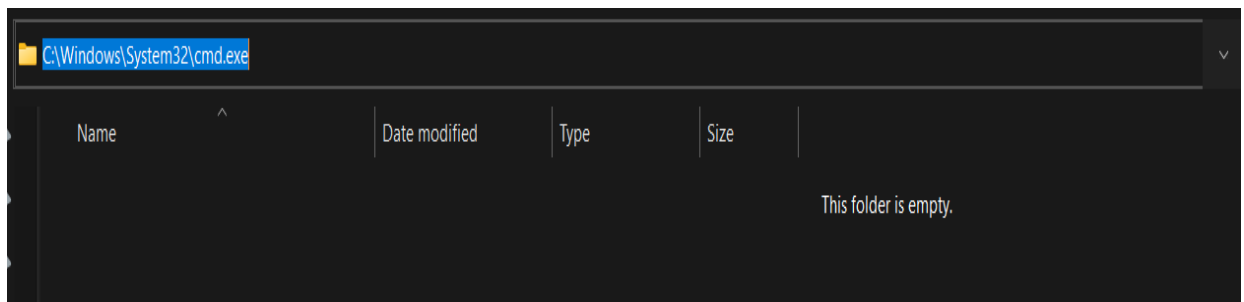
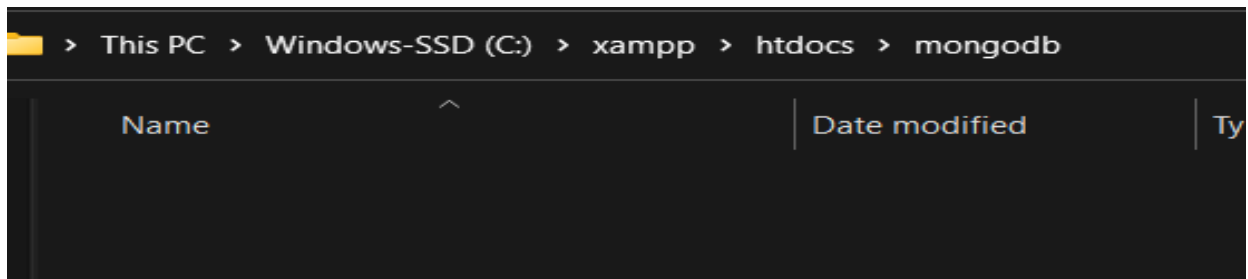
```

STEP 9: Go to root directory

XAMPP → htdocs → then create a NEW Folder(ex:- mongodb) and open it.



then click on address bar → → then type cmd then hit enter. →
then type a command **composer require mongodb/mongodb**
on command prompt (for install php libraries to use connect php).



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\xampp\htdocs\mongodb>composer require mongodb/mongodb
Info from https://repo.packagist.org: #StandWithUkraine
Cannot use mongodb/mongodb's latest version 1.15.0 as it requires ext-mongodb ^1.15.0 which is not satisfied by your platform.
./composer.json has been created
Running composer update mongodb/mongodb
Loading composer repositories with package information
Updating dependencies
Lock file operations: 3 installs, 0 updates, 0 removals
  - Locking jean85/pretty-package-versions (2.0.5)
  - Locking mongodb/mongodb (1.12.0)
  - Locking symfony/polyfill-php80 (v1.27.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Downloading symfony/polyfill-php80 (v1.27.0)
  - Downloading jean85/pretty-package-versions (2.0.5)
  - Downloading mongodb/mongodb (1.12.0)
  - Installing symfony/polyfill-php80 (v1.27.0): Extracting archive
  - Installing jean85/pretty-package-versions (2.0.5): Extracting archive
  - Installing mongodb/mongodb (1.12.0): Extracting archive
Generating autoload files
1 package you are using is looking for funding.
Use the 'composer fund' command to find out more!
No security vulnerability advisories found
Using version ^1.12 for mongodb/mongodb

C:\xampp\htdocs\mongodb>
```

Now download three file in Folder

This PC > Windows-SSD (C:) > xampp > htdocs > mongodb >				
Name	Date modified	Type	Size	
vendor	15-05-2023 15:33	File folder		
composer	15-05-2023 15:33	JSON Source File	1 KB	
composer.lock	15-05-2023 15:33	LOCK File	8 KB	

PHP-MongoDB Connection

➤ Create a Connection

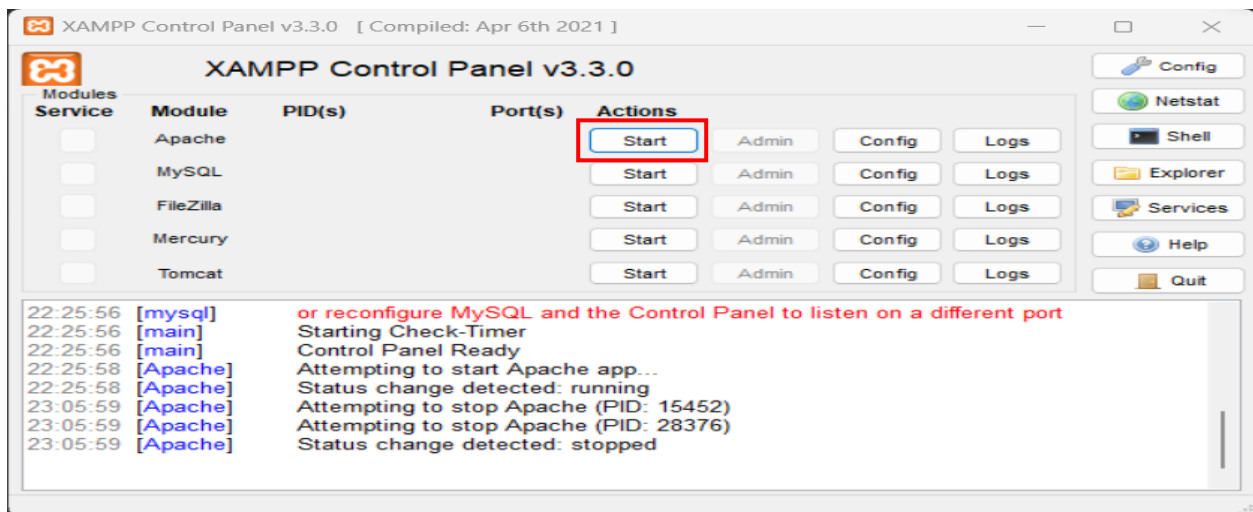
STEP: Create a file connect.php inside the mongodb folder and write a php code to PHP-MongoDB Connection.

Write a code:

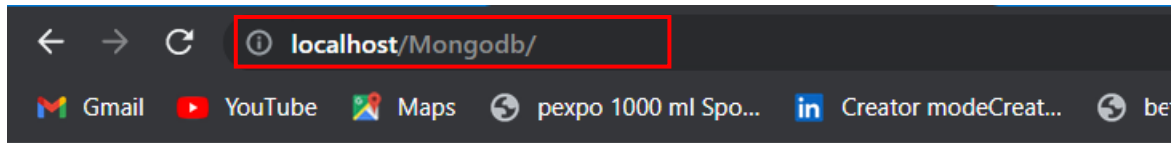
```
<html>
<body>
  <h1>Connection</h1>
  <?php
    require 'vendor/autoload.php';
    $con=new MongoDB\Client("mongodb://localhost:27017");
    echo "Connection successfull";
  ?>
</body>
</html>
```

Run the file:

i) Open Xampp control Panel → then start Apache.



- ii) Go to the browser → then type localhost/folder Name(mongodb)/.

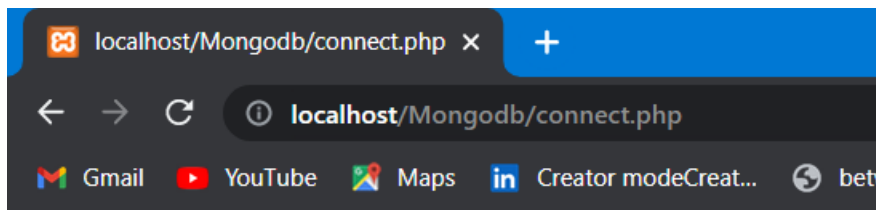


Index of /Mongodb

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory		-	
 composer.json	2023-05-15 15:33	62	
 composer.lock	2023-05-15 15:33	7.9K	
 connect.php	2023-05-15 22:34	250	
 data.php	2023-05-15 22:36	735	
 insert.php	2023-05-15 22:30	421	
 vendor/	2023-05-15 15:33	-	

- iii) The click on connect.php.

Output:



PHP-MongoDB Connection

Connection successfull!!!

➤ Inserting a Data

STEP: Create a file data.php inside the mongodb folder and write a php code to PHP-MongoDB Connection.

Write a code:

```
<html>
  <body>
    <h1>create Database, Collection & Inserted Document </h1>
    <?php
      require 'vendor/autoload.php';
      $con=new MongoDB\Client("mongodb://localhost:27017");
      echo "Connection succesfull";

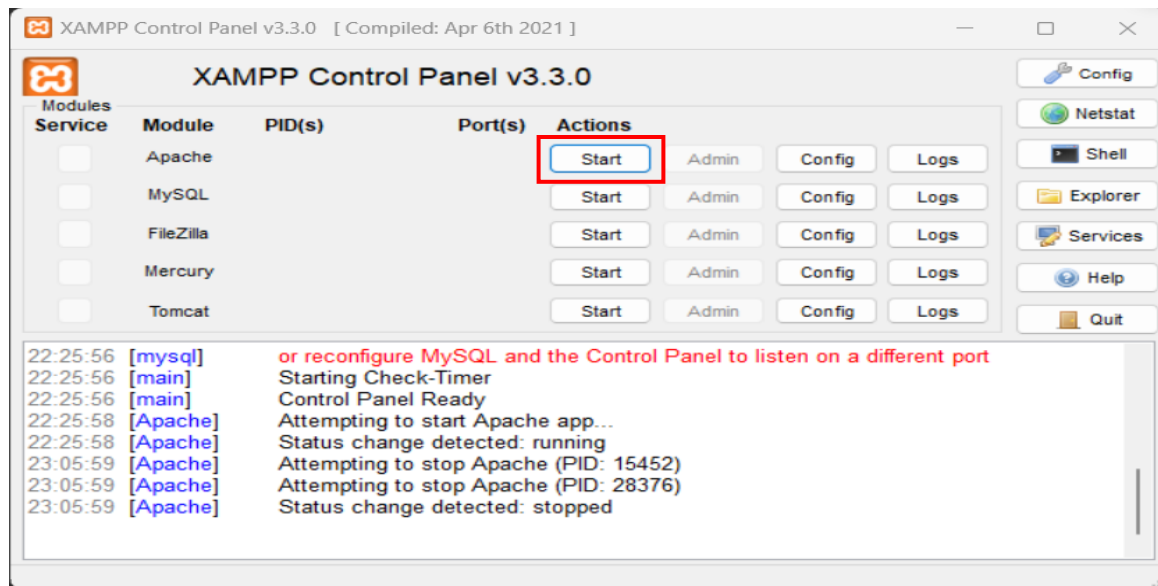
      //create database
      $db=$con->CM3;
      echo "<br>database created successfully";

      //create collection
      $tbl=$db->Subjects;
      echo "<br>Collection created Successfully";

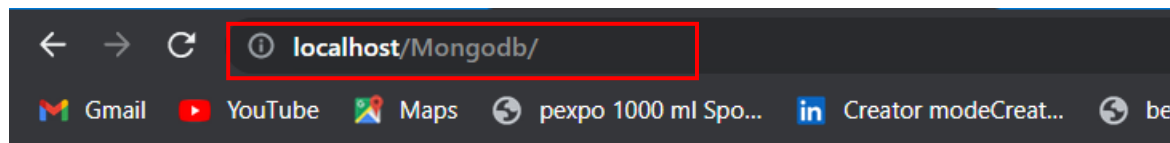
      //Insert Value
      $tbl->insertOne(["Language"=>"PHP"]);
      $tbl->insertOne(["Database"=>"MongoDB"]);
      $tbl->insertOne(["Framework"=>"Laravel"]);
      echo "<br> Document Value Inserted";
    ?>
  </body>
</html>
```

Run the file :

- i) Open Xampp control Panel → then start Apache.



- ii) Go to the browser → then type localhost/folder Name(mongodb)/.

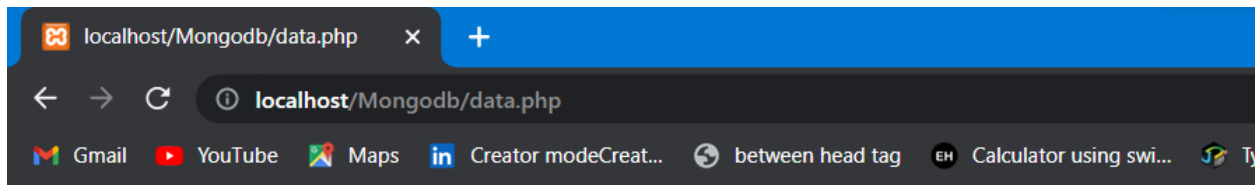


Index of /Mongodb

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-	
composer.json	2023-05-15 15:33	62	
composer.lock	2023-05-15 15:33	7.9K	
connect.php	2023-05-15 22:34	250	
data.php	2023-05-15 22:36	735	
insert.php	2023-05-15 22:30	421	
vendor/	2023-05-15 15:33	-	

- iii) The click on data.php.

Output:

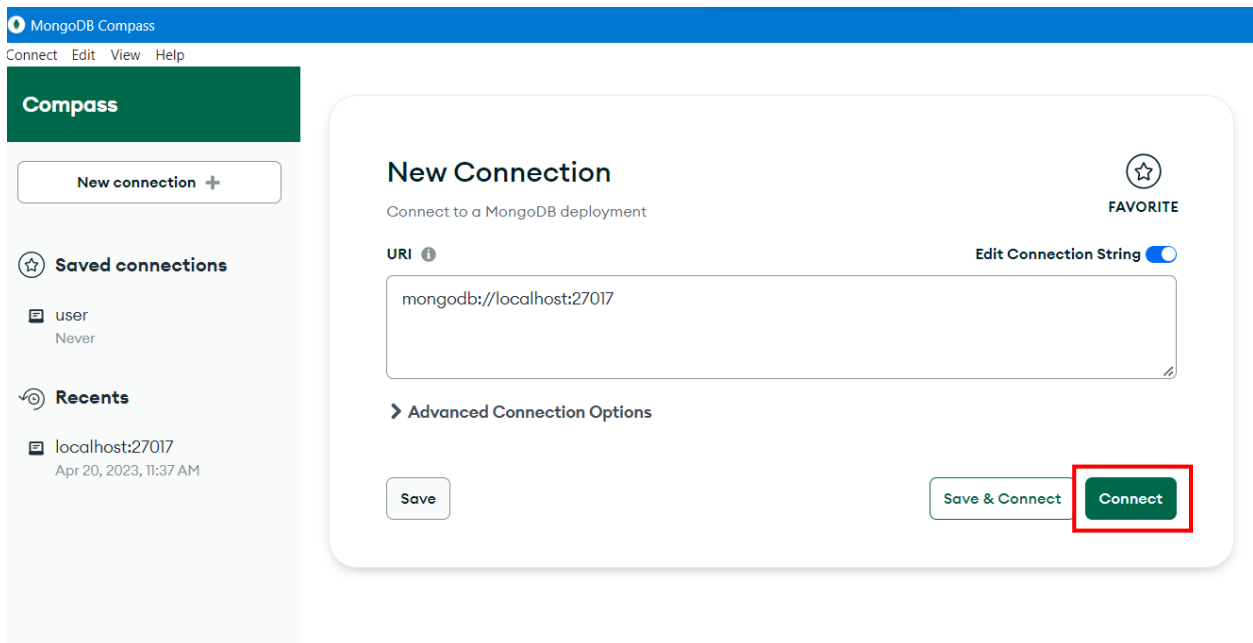


create Database, Collection & Insert Document

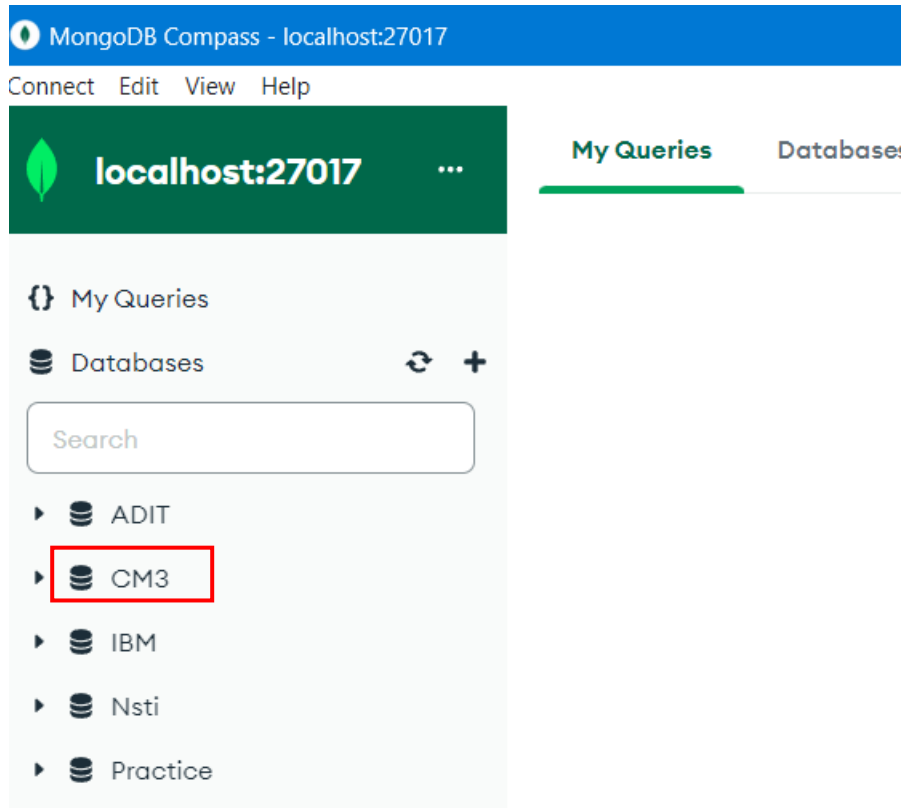
Connection succesfull
database created successfully
Collection created Successfully
Document value Inserted

➤ Now to see your data is inserted or not!

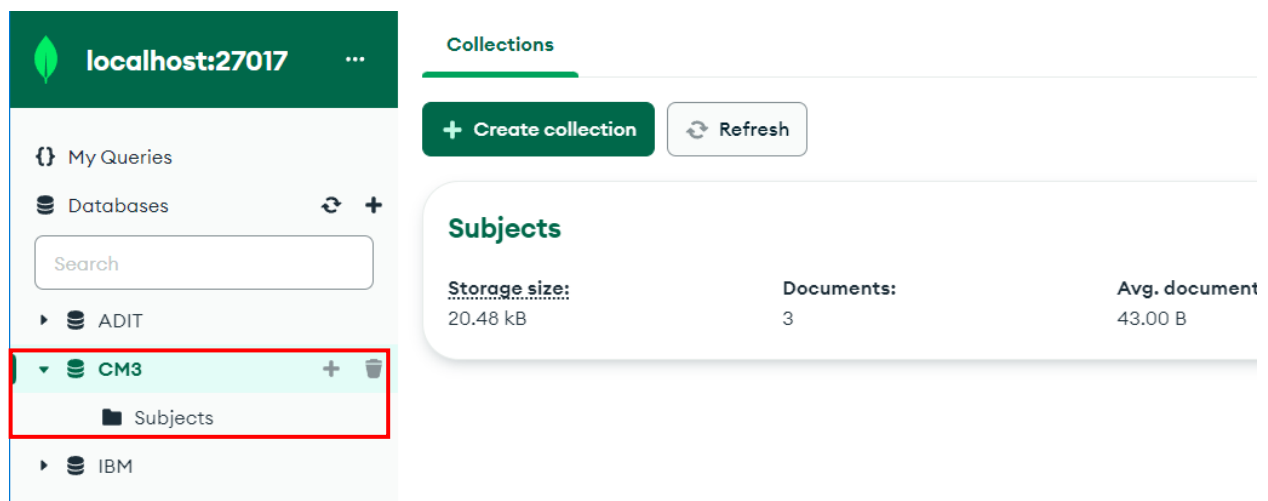
- i) Open MongoDB Compass
- ii) Then click on connect.



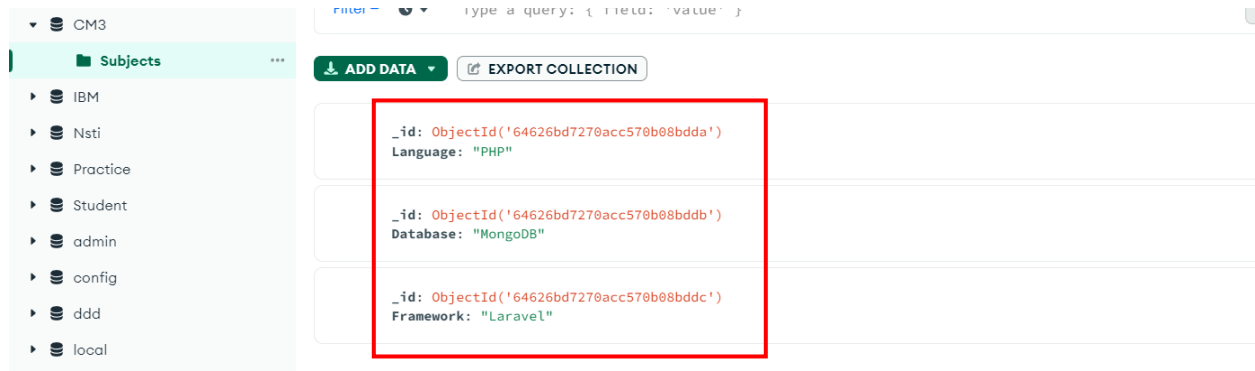
- iii) Now see Your database CM3



iv) Click on CM3 to see the Collection (Subjects)



v) Click on Subjects to see the inserted data



Note: if You created a database and table only it will not shown on MongoDB Compass at least insert one value.

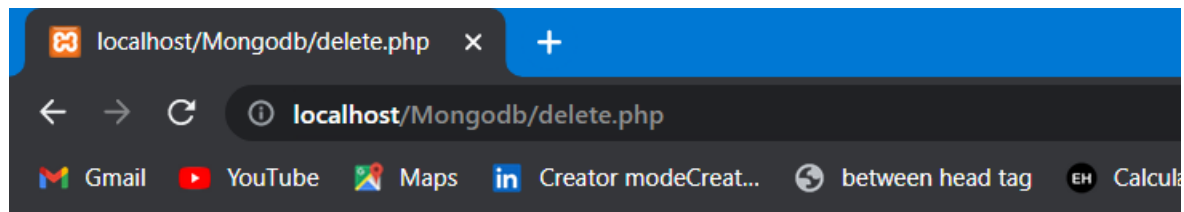
➤ Deleted your data

Write a code:

```
<html>
<body>
  <h1>Delete Data</h1>
  <?php
    require 'vendor/autoload.php';
    $con=new MongoDB\Client("mongodb://localhost:27017");
    echo "Connection succesfull";
    //create database
    $db=$con->CM3;
    echo "<br>database created successfully";
    //create collection
    $tbl=$db->Subjects;
    echo "<br>Collection created Successfully";

    //delete data
    $tbl->deleteOne(["Framework"=>"Laravel"]);
    echo "<br>Deleted succesfully!!";
  ?>
</body>
</html>
```

Output:



Delete Data

Connection succesfull
database created successfully
Collection created Successfully
Deleted succesfully!!

