Download Visual Source Code:

https://code.visualstudio.com/download

Download XAMPP for Windows
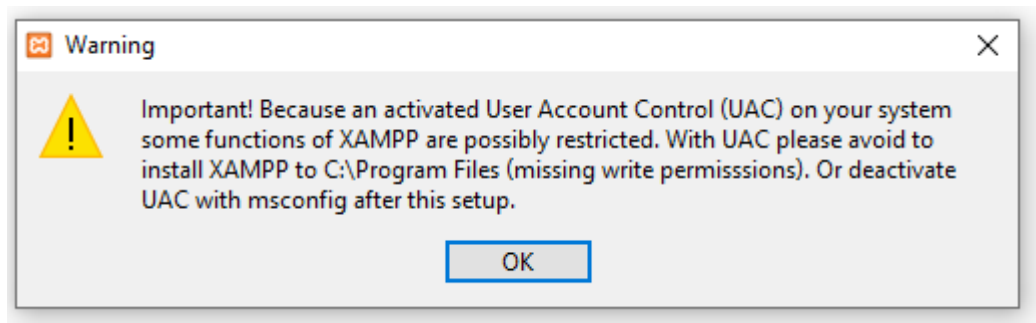
https://www.apachefriends.org/download.html

Select version 8.1.6 / PHP 8.1.6

Select 64 bit/ 32 bit as required

This contains Apache + PhP + MySQL together

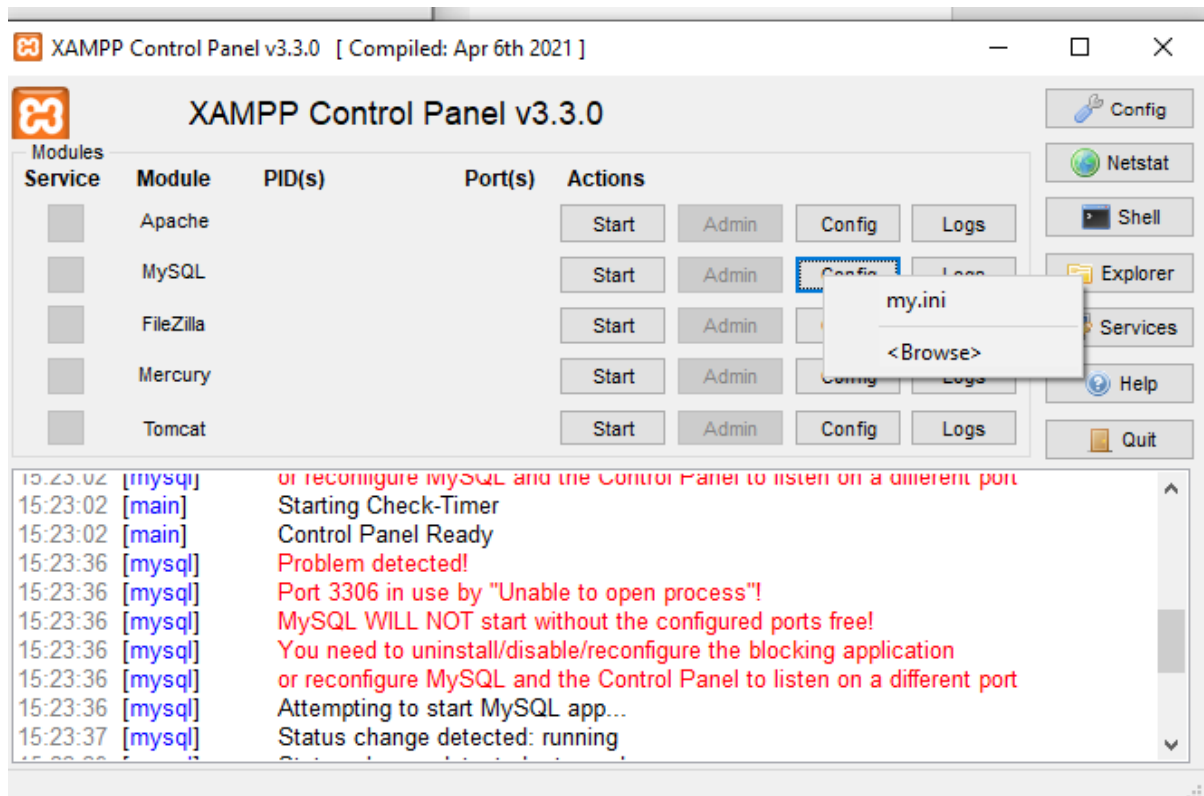Don't install in C:\Program Files

How to setup XAMPP environment

https://www.youtube.com/watch?v=at19OmH2Bg4&list=PLu0W_9lII9aikXkRE0WxDt1vozo3hnmtR

Change Apache port to 8080 if it port 80 is already occupied.

See

https://stackoverflow.com/questions/11294812/how-to-change-xampp-apache-server-port

change SQL starting port=3306 if it is already being used by some other process.

Let us say it is 3307. Note that it needs to be set up at two places in the my.ini file:

```
# The following options will be passed to all MySQL clients
[client]
# password      = your_password
port=3307
socket= D:/xampp/mysql/mysql.sock"


# Here follows entries for some specific programs

# The MySQL server
default-character-set=utf8mb4
[mysqld]
port=3307
socket="D:/xampp/mysql/mysql.sock"
basedir="D:/xampp/mysql"
tmpdir="D:/xampp/tmp"
```
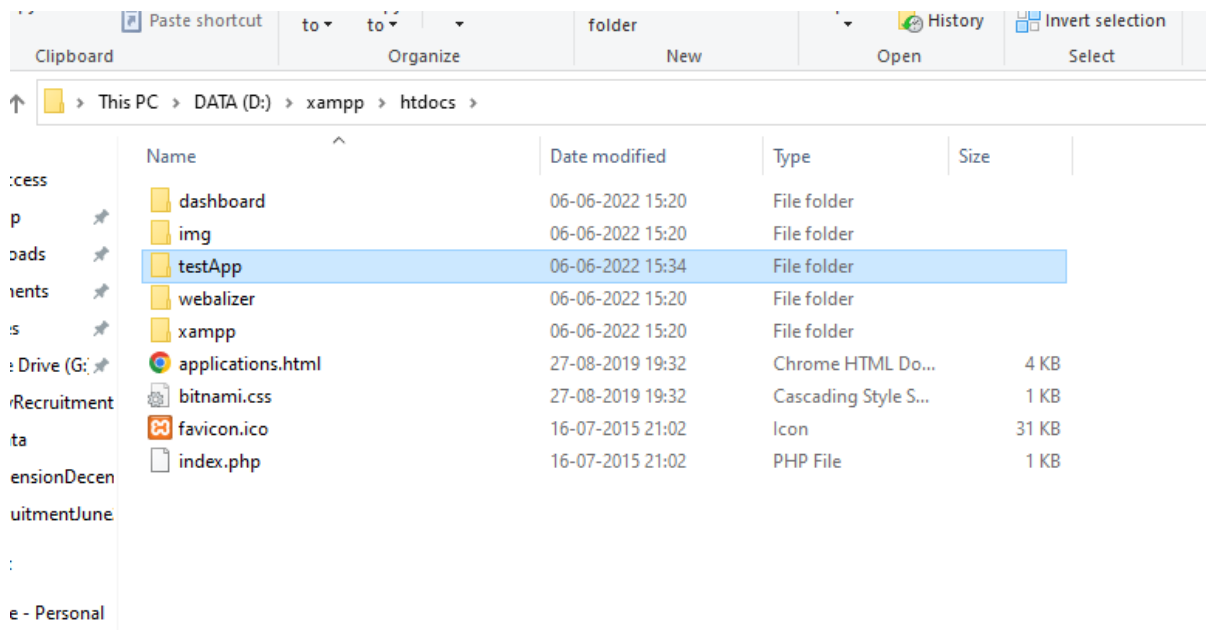
Both MySQL and Apache need to be started
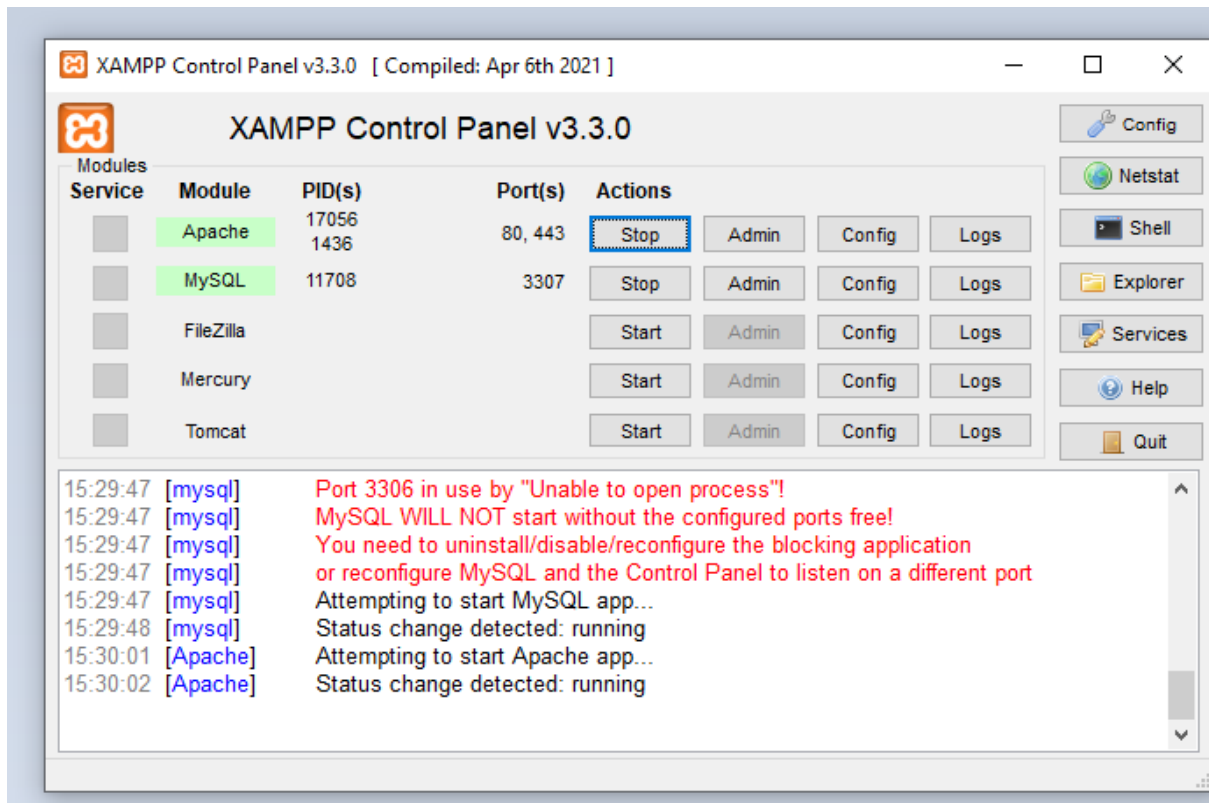
The above interface is of XAMPP control panel
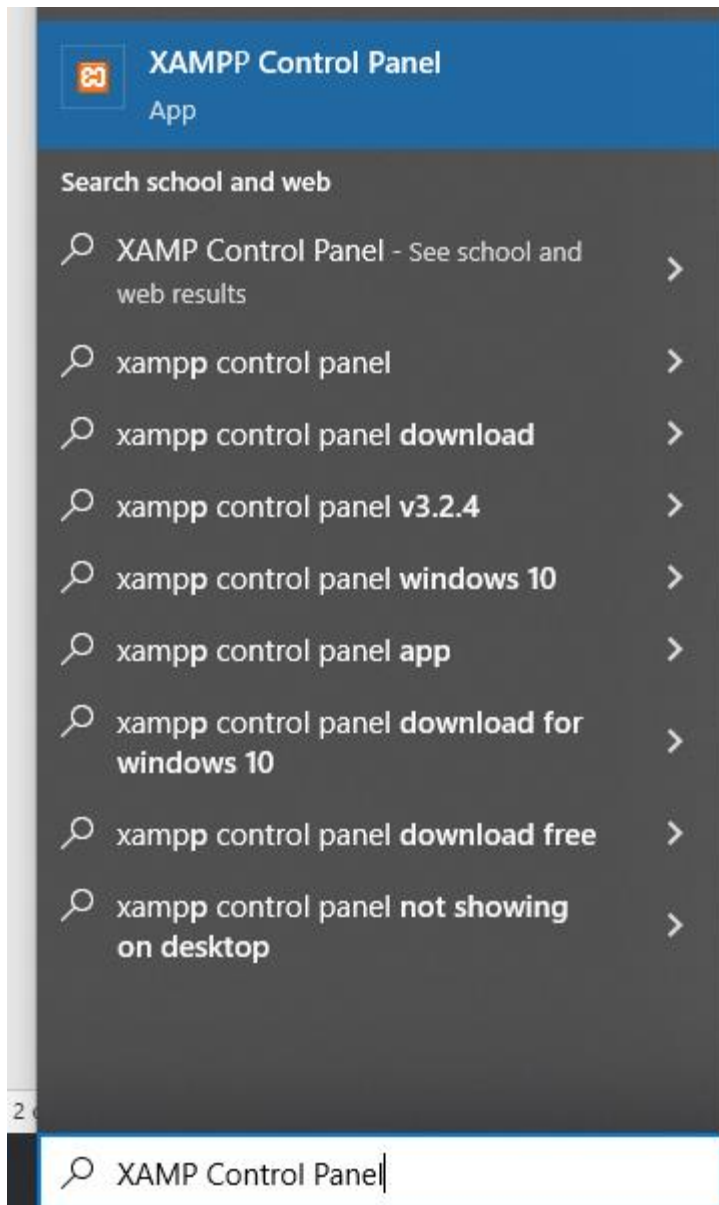
In the XAMPP htdocs (e.g., "D:\xampp\htdocs") folder, which is the default root folder from where the web-server starts, create a folder testApp

Name	Date modified	Type	Size
dashboard	06-06-2022 15:20	File folder	
img	06-06-2022 15:20	File folder	
testApp	06-06-2022 15:34	File folder	
webalizer	06-06-2022 15:20	File folder	
xampp	06-06-2022 15:20	File folder	
applications.html	27-08-2019 19:32	Chrome HTML Do...	4 KB
bitnami.css	27-08-2019 19:32	Cascading Style S...	1 KB
favicon.ico	16-07-2015 21:02	Icon	31 KB
index.php	16-07-2015 21:02	PHP File	1 KB

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Within testApp folder place index.php

If the default port was changed, the same need to be updated in the "D:\xampp\phpMyAdmin\config.inc.php"

Add

$cfg['Servers'][$i]['port'] = '3307';

After the above, go to link

http://localhost/phpmyadmin/

Change root password of DB

https://dbschema.com/2020/04/21/mysql-default-username-password/

In phpmyadmin, click on SQL and run the following statement

SET PASSWORD FOR 'root'@'localhost' = PASSWORD('password');

To change the password from empty to 'password'

After changing the password you need to go back to and update the password in the configuration file "D:\xampp\phpMyAdmin\config.inc.php":

$cfg['Servers'][$i]['password'] = 'password';

And start http://localhost/phpmyadmin/   again

Sample index.php file will look like:

```
<!DOCTYPE html>

<html>

   <head>

      <title>Example</title>

   </head>

   <body>

      <p>This is an example of a simple HTML page with one paragraph.</p>

                         <?php

                         $servername = "localhost";

                         $username = "root";

                         $password = "password";


                         // Create connection

                         $conn = new mysqli($servername, $username, $password,"",3307);


                         // Check connection

                         if ($conn->connect_error) {

                           die("Connection failed: " . $conn->connect_error);

                         }

                         echo "Connected successfully";

                         ?>

   </body>

</html>
```

If the default port is used, then just

```
$conn = new mysqli($servername, $username, $password);
```

Will be sufficient.

How to Make XAMPP Apache serve file outside of htdocs

https://www.youtube.com/watch?v=GHgEi-ygJ7o

You can download PHP docs from

https://www.php.net/download-docs.php

How to send emails

See https://netcorecloud.com/tutorials/send-an-email-via-gmail-smtp-server-using-php/

Instead of

```
composer require phpmailer/phpmailer
```

run

php composer.phar require phpmailer/phpmailer

How to send email without turning on "Less secure app" option.

https://www.youtube.com/watch?v=Kjn5vBbBsi8

How to configure a Gmail client without less secure app option

https://support.google.com/accounts/thread/168492730/how-to-have-my-php-send-a-gmail-email-now-that-less-secure-app-access-is-no-longer-avail?hl=en

If you get

"[SOLVED] PHPMailer SMTP Error: Could not connect to SMTP host"

https://netcorecloud.com/tutorials/phpmailer-smtp-error-could-not-connect-to-smtp-host/#:~:text=There%20are%20many%20popular%20cases,you%20enable%20the%20extension%3Dphp_openssl.