# **Installations (Laravel & Visual Studio Code)**

#### **Part 1: Laravel Installation**

#### Step 1: Install XAMPP on your computer using the following URL

Latest Laravel version depends on the PHP version which is automatically installed during XAMPP installation.

#### URL: https://www.apachefriends.org

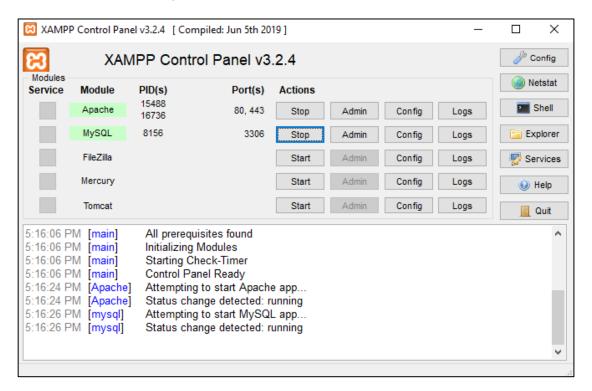


- To download, click **XAMPP for Windows**
- After downloading XAMPP, open the setup, press **Next** button to start installation





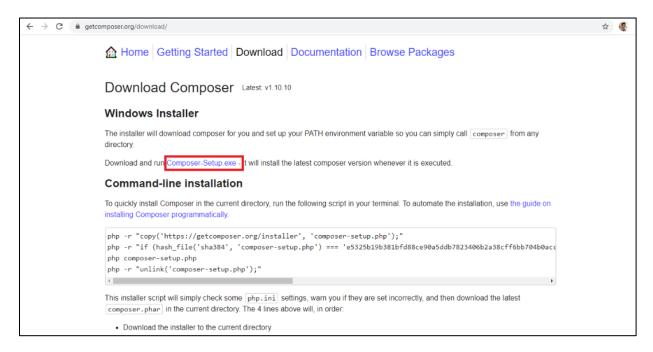
- After successful installation, XAMPP Control Panel would look like below.



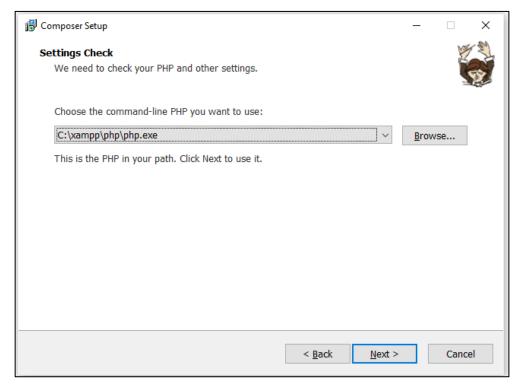
#### Step 2: Install composer program using the following URL

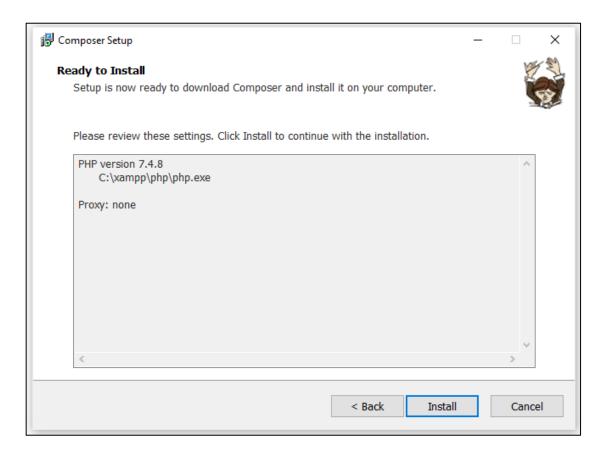
Laravel needs composer to manage different extensions

#### URL: https://getcomposer.org/download/



- Run composer.exe after download. During installation, if you are prompted for php.exe path, its address in your system is **xampp/php** by default.





- Once composer has been installed, test it by typing the command **composer** in the command prompt (cmd). It will display composer version which is **version 2.0.7** in my case.



#### **Step 3: Install Laravel (locally)**

In global installation, Laravel is only installed once and then it is used for each new Project. In local installation, Laravel is installed for each new Project. Use the following URL to understand local and global installation of Laravel.

URL: <a href="https://laravel.com/docs/7.x/installation">https://laravel.com/docs/7.x/installation</a>

We shall use local installation which means Project-wise Laravel installation.

- Type following commands in the Command Prompt to create a folder CRUD and install Laravel in this folder. The name of our Laravel Project is CRUD.
  - 1. cd c:\xampp\htdocs
  - 2. composer create-project --prefer-dist laravel/laravel FA20\_Student\_MIS
- Select Command Prompt

```
C:\xampp\htdocs>cd C:\xampp\htdocs
C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel        <mark>FA20_Student_MIS</mark>
 - Downloading laravel/laravel (v8.4.1)
 - Installing laravel/laravel (v8.4.1): Extracting archive
reated project in C:\xampp\htdocs\FA20_Student_MIS

@php -r "file_exists('.env') || copy('.env.example', '.env');"
 - Locking asm89/stack-cors (v2.0.2)
 - Locking brick/math (0.9.1)
 - Locking dnoegel/php-xdg-base-dir (v0.1.1)
 - Locking doctrine/inflector (2.0.3)
 - Locking doctrine/instantiator (1.4.0)
 - Locking doctrine/lexer (1.2.1)
 - Locking dragonmantank/cron-expression (v3.0.2)
 - Locking egulias/email-validator (2.1.23)
 - Locking facade/flare-client-php (1.3.7)
 - Locking facade/ignition (2.5.1)
 - Locking facade/ignition-contracts (1.0.2)
 - Locking fakerphp/faker (v1.10.1)
```

- After few minutes, Laravel will be installed successfully as shown below.

```
Select Command Prompt
                                                            (3.1.1): Extracting archive
       Installing
  - Installing phpunit/php-file-iterator (3.0.5): Extracting archive
- Installing theseer/tokenizer (1.2.0): Extracting archive
- Installing sebastian/lines-of-code (1.0.2): Extracting archive
- Installing sebastian/complexity (2.0.2): Extracting archive

    Installing sebastian/code-unit-reverse-lookup (2.0.3): Extracting archive
    Installing phpunit/php-code-coverage (9.2.3): Extracting archive
    Installing doctrine/instantiator (1.4.0): Extracting archive
    Installing phpspec/prophecy (1.12.1): Extracting archive

    Installing phar-io/version (3.0.2): Extracting archive
    Installing phar-io/manifest (2.0.1): Extracting archive

    Installing myclabs/deep-copy (1.10.2): Extracting archive
    Installing phpunit/phpunit (9.4.3): Extracting archive

  Illuminate\Foundation\ComposerScripts::postAutoloadDump
  @php artisan package:discover --ansi
Discovered Package: facade/ignition
Discovered Package: fideloper/proxy
Discovered Package: fruitcake/laravel-cors
Discovered Package: laravel/tinker
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
  ackage manifest generated successfully
  @php artisan key:generate --ansi
  :\xampp\htdocs>_
```

- Laravel has been successfully installed in the project folder FA20\_Student\_MIS
- After installation, type the following commands in the Command Prompt to go the FA20\_Student\_MIS folder and start there the PHP development server, for development and testing.
  - 1. cd FA20\_Student\_MIS
  - 2. php artisan serve

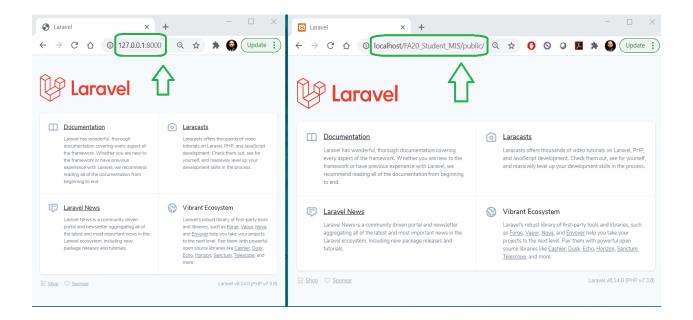
```
Use the `composer fund` command to find out more!
> @php artisan key:generate --ansi
Application key set successfully.

C:\xampp\htdocs>cd FA20_Student_MIS

C:\xampp\htdocs\FA20_Student_MIS>ls
README.md artisan composer.json config package.json public routes storage vendor
app bootstrap composer.lock database phpunit.xml resources server.php tests webpack.mix.js

C:\xampp\htdocs\FA20_Student_MIS>php artisan serve
Starting Laravel development server: http://127.0.0.1:8000
```

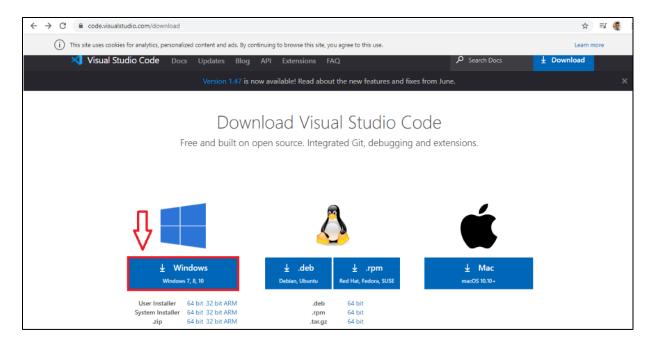
- Now, open the browser and type one of the following in the addresses bar to start the Laravel application
  - 1. http://127.0.0.1:8000
  - 2. http://localhost/FA20\_Student\_MIS/public/

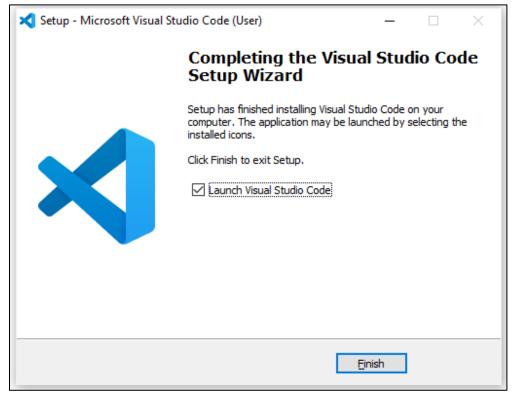


### Part 2: Microsoft Visual Studio Code (VS Code) Installation

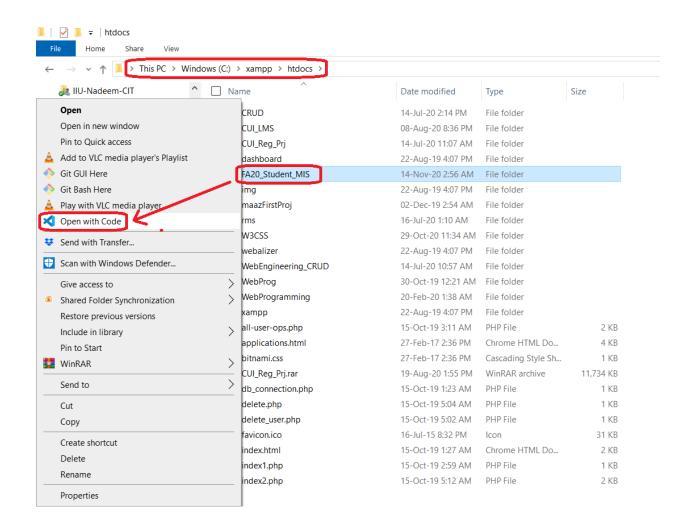
Step 1: Download VS Code from the following URL.

URL: <a href="https://code.visualstudio.com/download">https://code.visualstudio.com/download</a>

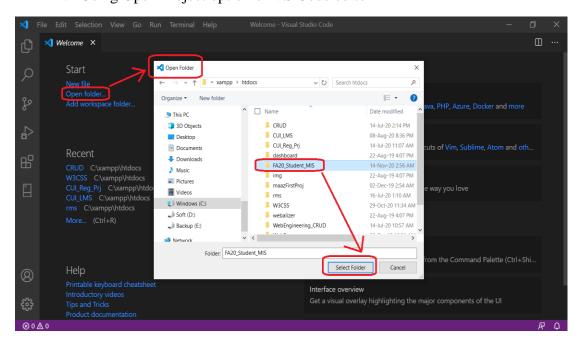




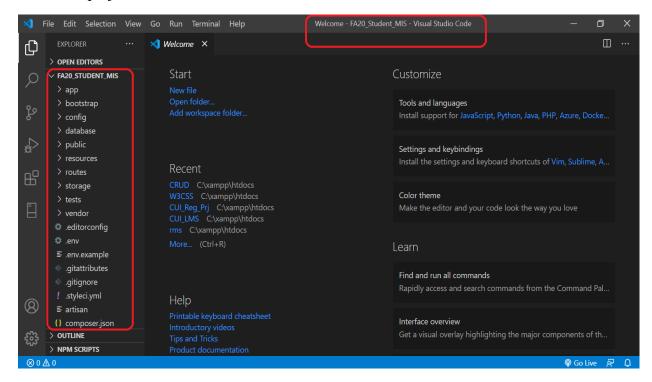
- After Successful installation, Open Laravel project using VS Code using one of the TWO methods.
  - 1. Using right-click on the **project folder** in **htdocs**



#### 2. Using Open Project option of VS Code editor

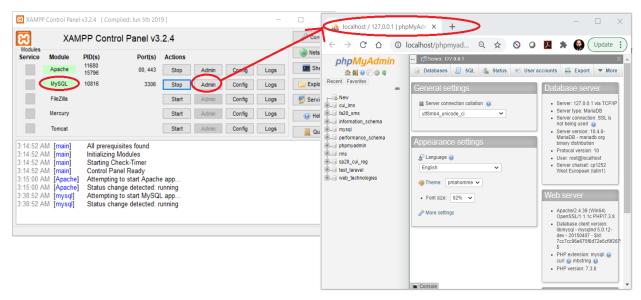


- Laravel project will look in VS Code as shown below

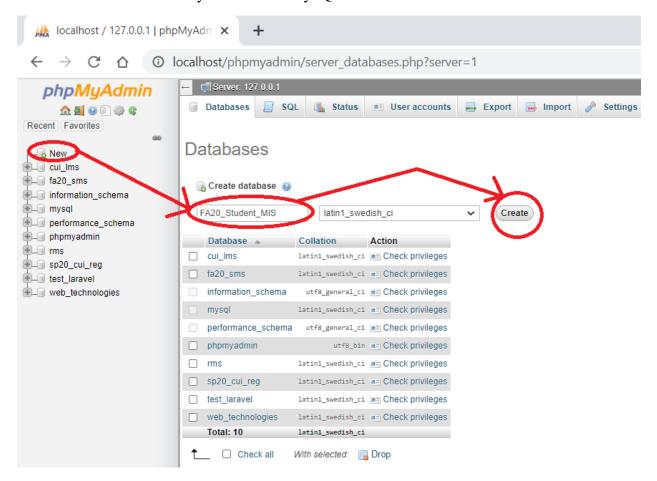


## Part 3: Creating a Database in MySQL and linking with Laravel Application

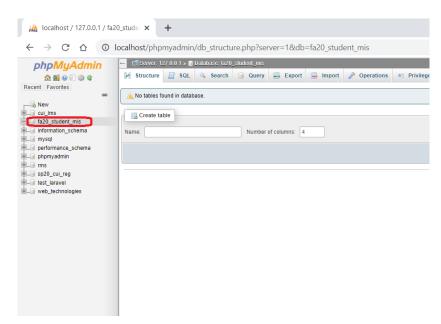
- Open XAMPP MySQL as shown in the image below.



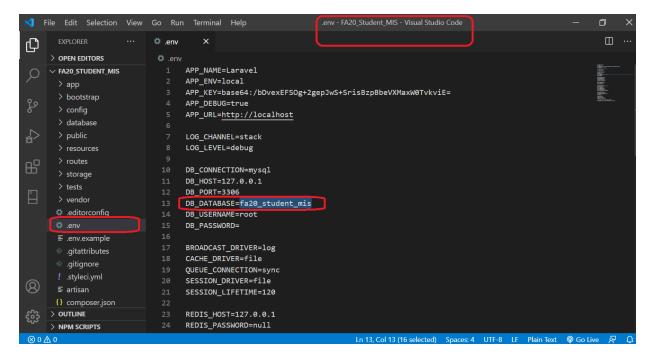
- Create a new database in your XAMPP MySQL



- Once the database is created, we need to tell our Laravel project the details about the database.



- Modify the following property in your .env file according to your database name. MY database name is **fa20\_student\_mis**.



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