

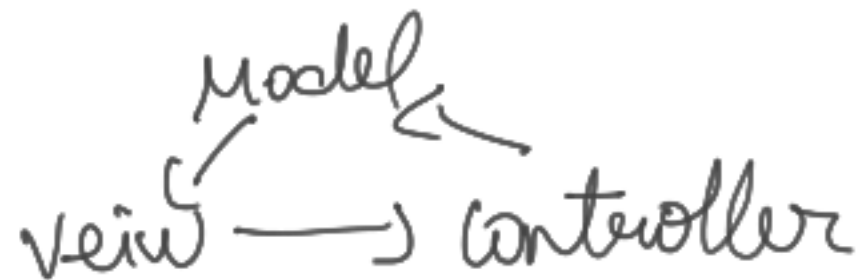
Framework :-

It is the collection of methods, classes or files.

Architecture :-

It is a specific design a framework follows.

MVC architecture :-



what is laravel?

Laravel is a

PHP framework

that uses

MVC

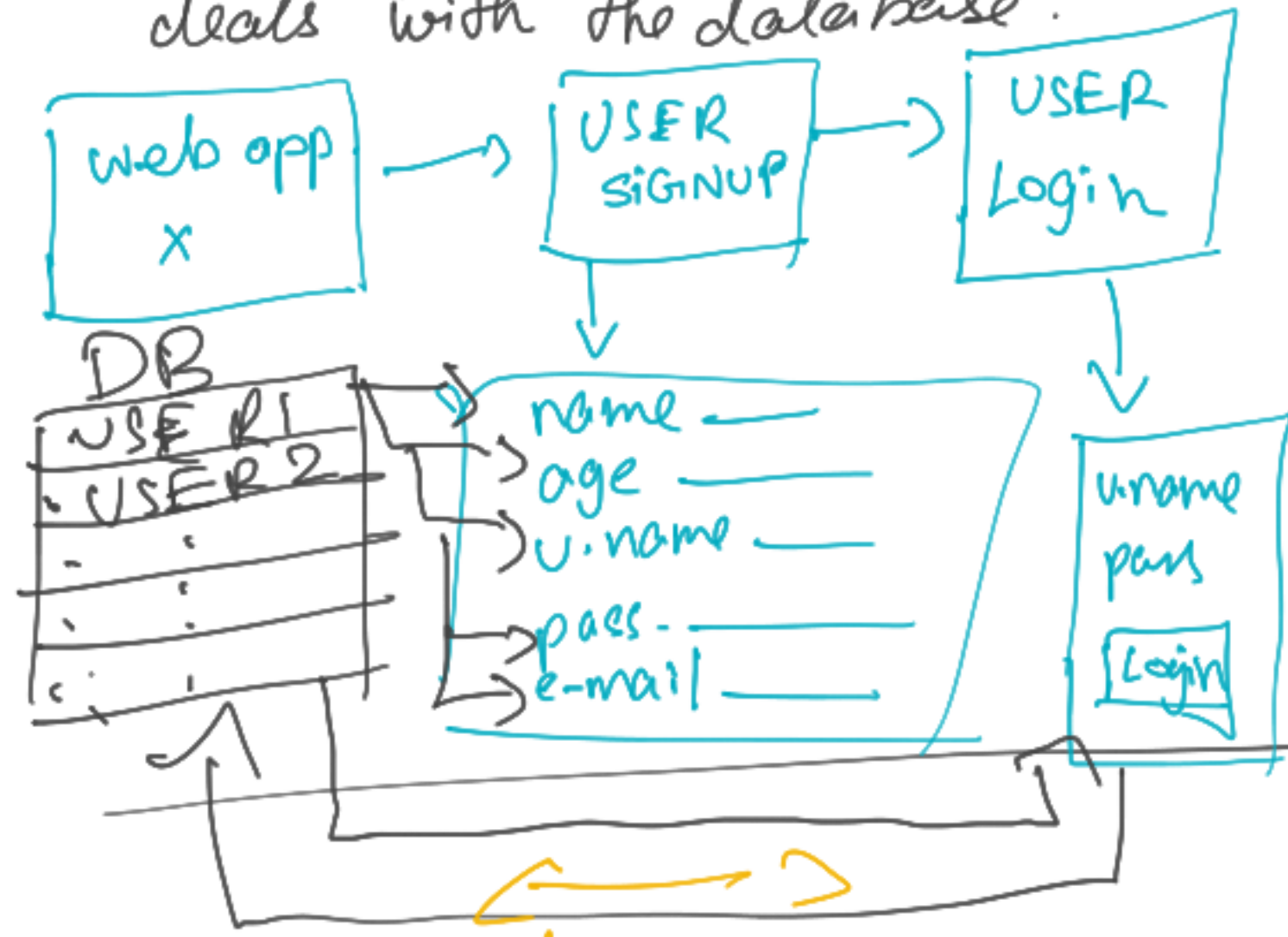
Architecture

M → model

V → View

C → Controller

**Model:-** It is a class that deals with the database.



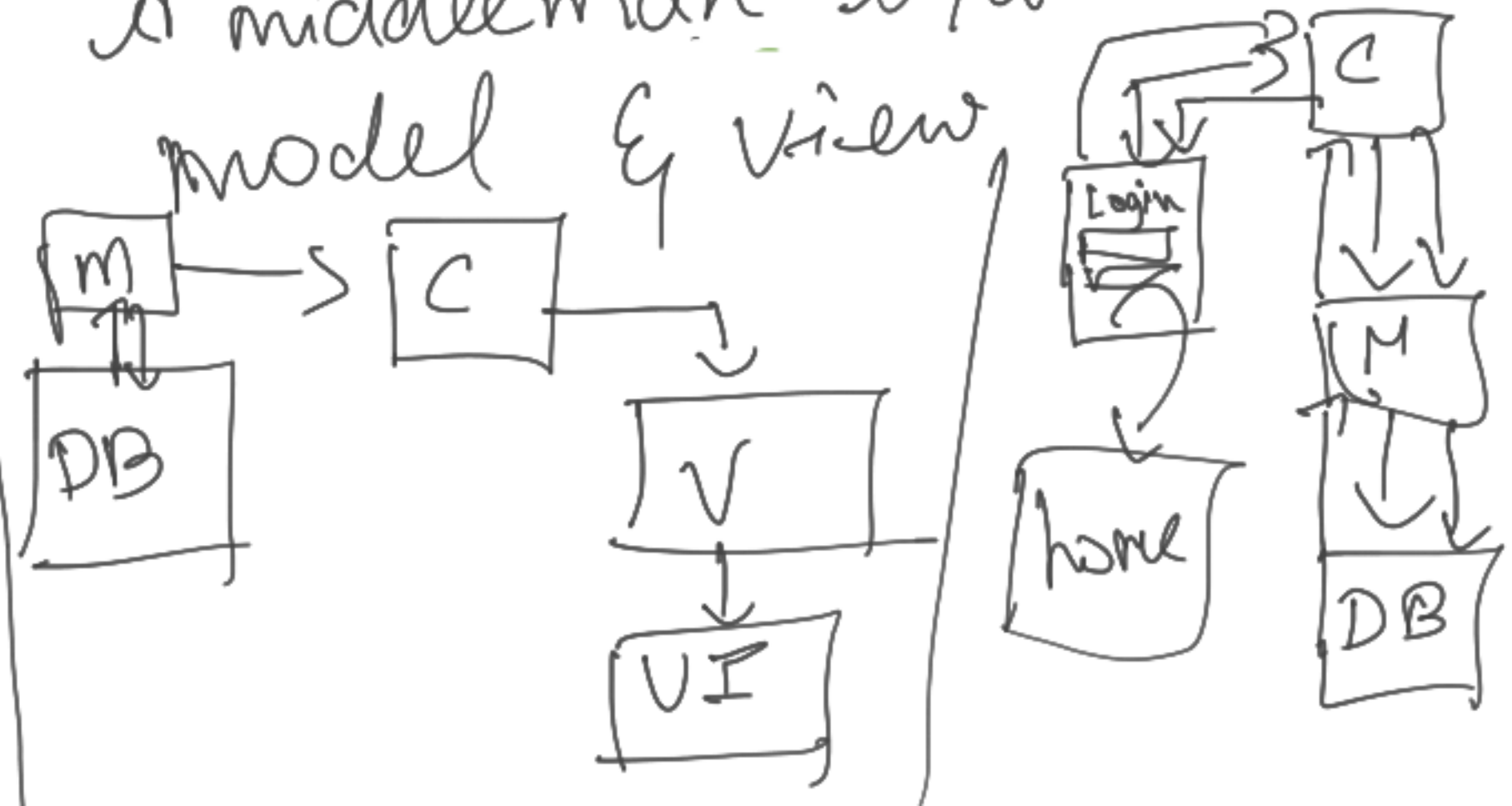
**View ->** A view is a class that deals with an HTML. Everything that can be seen on the app in the browser is view of the app.

**USER model**

model -> its own table in DB.

**Controller:-**

A middleman b/w model & view



Prerequisite  
↓  
PHP <→ HTML

LARAVEL

↓  
framework

↓  
MVC arch.

↓  
Command-Line

① Artisan → built in tool for a  
command-line known as

Artisan.

↳ repetitive programming  
tasks.



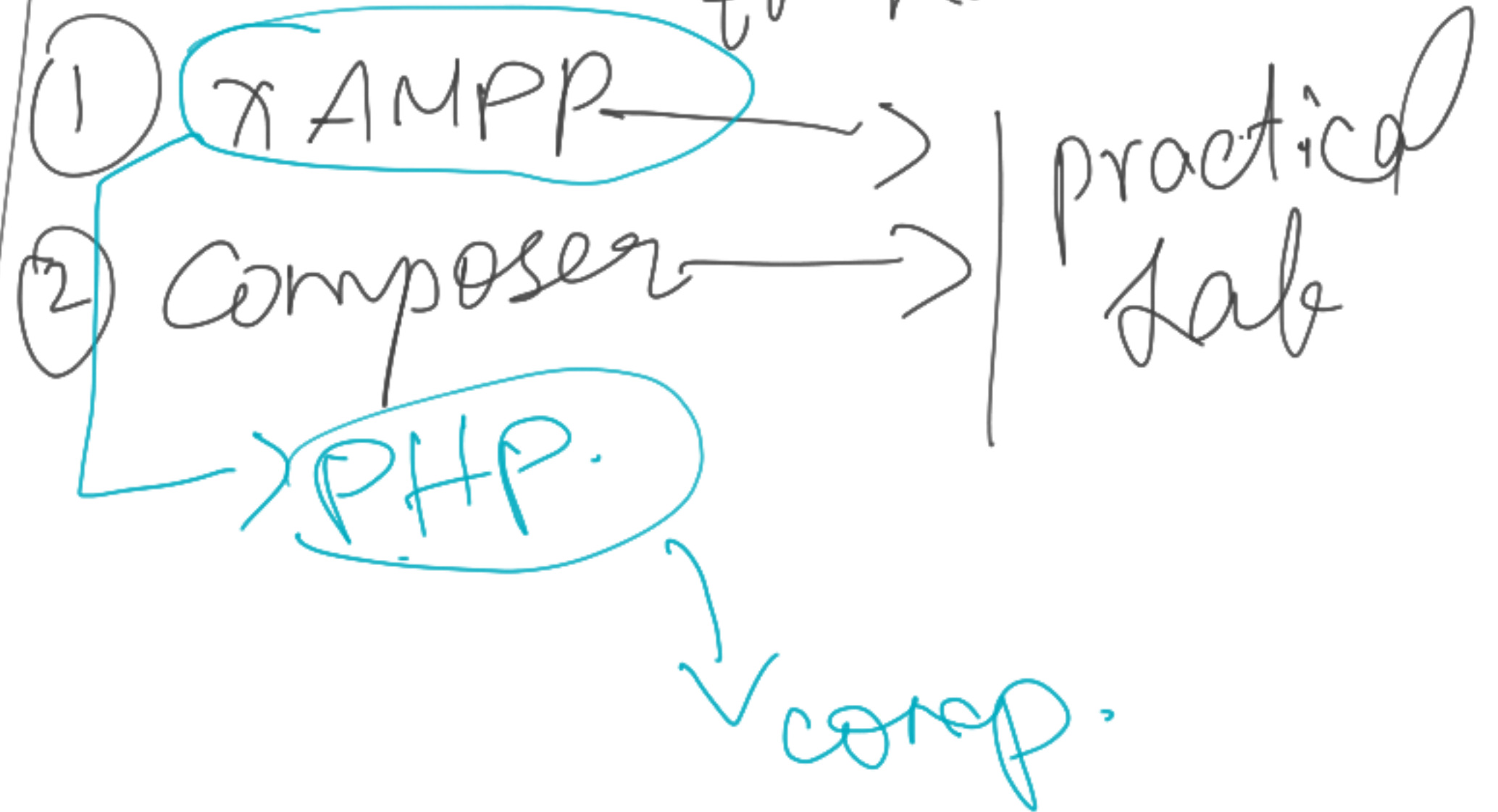
- ↳ used to create the skeleton code.
- ↳ database structure
- ↳ and their migration
- ↳ MVC files through the command line
- ↳ allows the dev. to create their own commands.

## blade boilerplate

Prereq.  $\Rightarrow$  you need.

↳ for your comp.

to have



Composer → dependency manager for PHP.

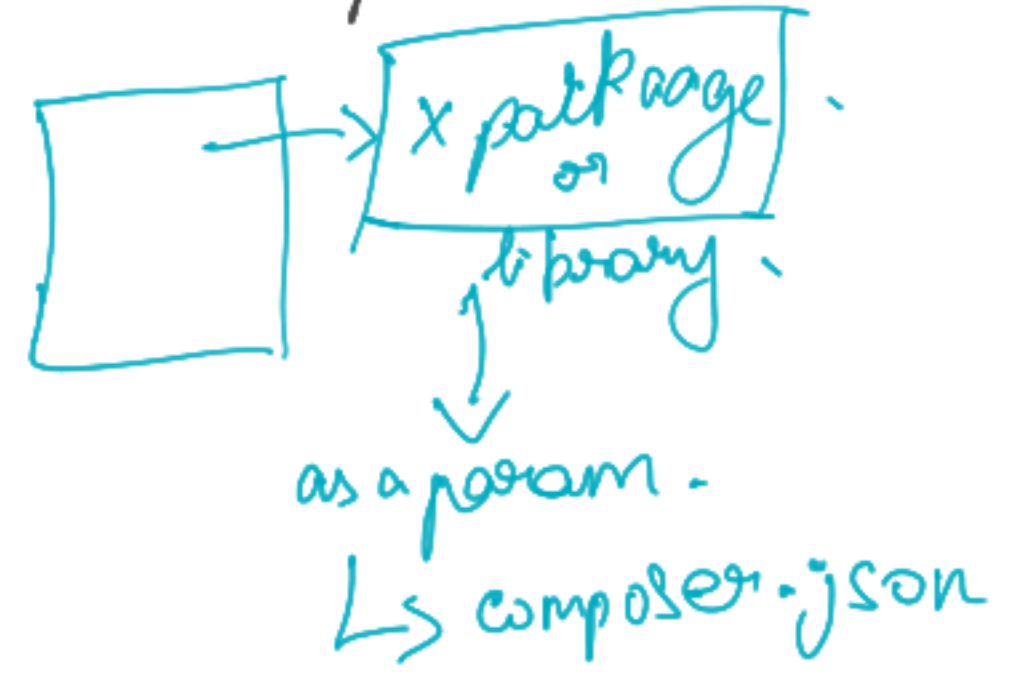
→ manages all the dep. of PHP software and req. lib.

It runs on command line Artisan

Basic commands in composer

↳ require

```
{  
  "require":  
  {  
    "<package name>": "Ver.*",  
  }  
}
```



↳ remove

It is used to uninstall the lib. and remove it from the composer.json

↳ install

It is used to install all the lib. from the composer.json file.

↳ update

It is used to update all the lib. from composer.json. to the latest ver!

```
"x" : "1.2.*",  
    {  
      "x" : "1.1"
```

## Creating your first Laravel project.

① create locally

↳ composer create-project /<project-name>

② Create a global project

↳ composer global require laravel/installer

↳ laravel new <project-name> Ex -> "y-app"

To start the local Laravel server:-

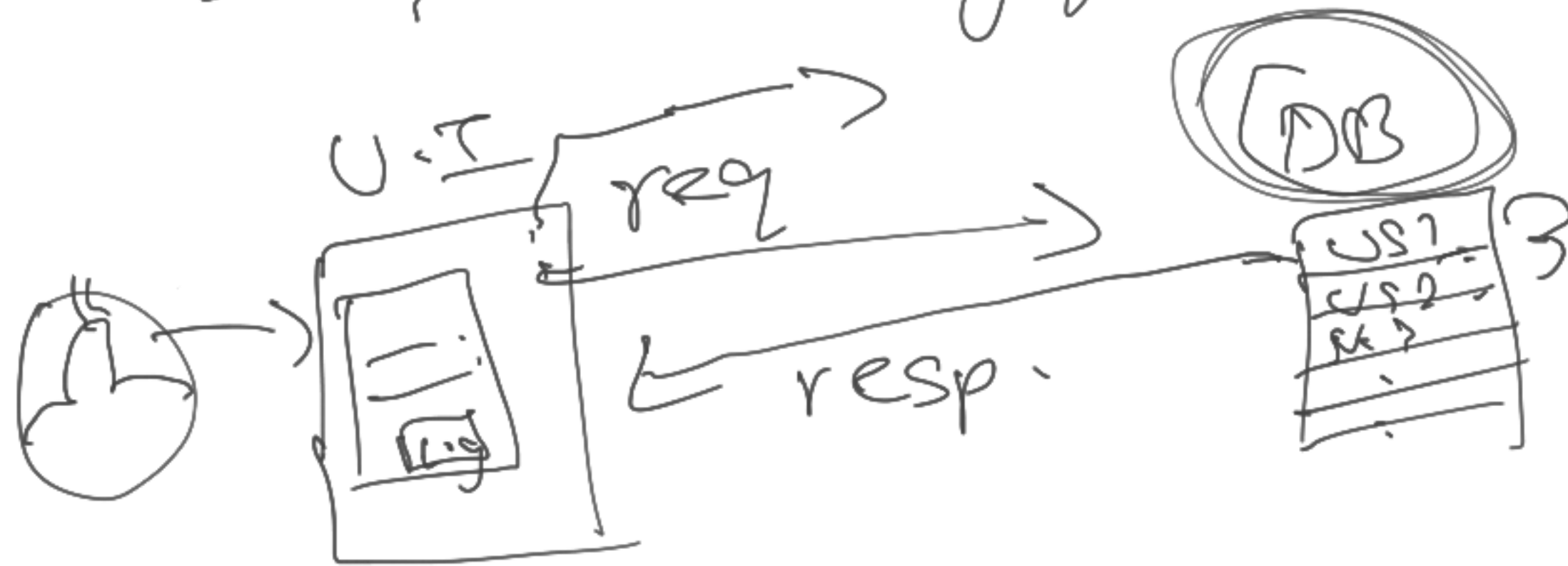
① cd <project-name>

② php artisan serve. (http://localhost:8000)



Request —> requiring something  
↳ asking for something

Response —> responding to the req.  
↳ answering for something



Routing:- (MVC)

controller →

The main functionality of the router is to route all your application requests to the appropriate controller.

By default →

web.php →

definition of default routes.

api.php

→ assigned with the API middleware group.

→ The default routes are the routes of default web interface

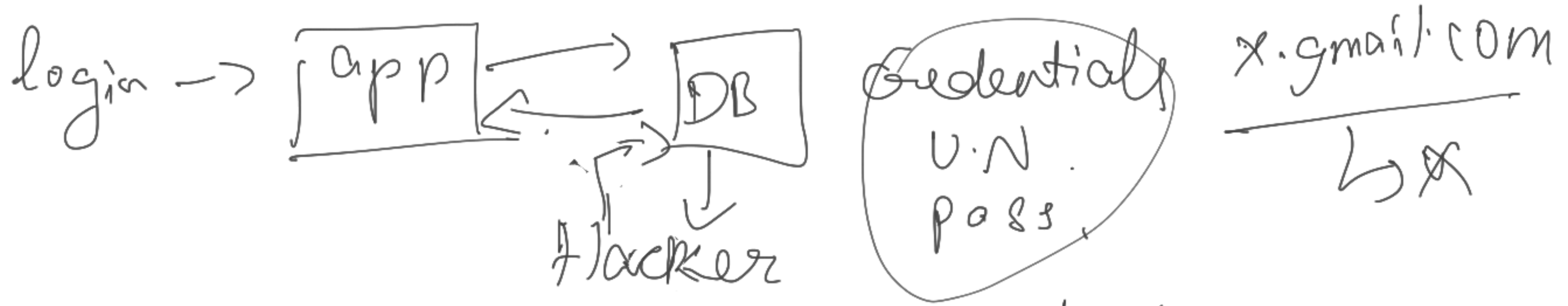
web.api (inside router directory)

<?php

```
Route::get('/', function()
{
    return view('welcome');
});
```

```
Route::get('/example',
function()
{
    return "welcome";
});
```





Cross site request forgery.

x - gmail.com

S R F attacks

POST



POST, PUT, PATCH OR DELETE / CSRF req.

```
graph TD; A[POST, PUT, PATCH OR DELETE / CSRF req.] --> B[100, 1000]; A --> C[ ]; C --> B;
```

In order to prevent CSRF req.,  
browser automatically generates  
CSRF tokens

```
graph TD; A[CSRF tokens] --> B[token]; B --> C[USER 1]; B --> D[ ];
```

@csrf

## Required Parameters:-

passing a data  $\rightarrow$  param.  
directly in the URL.

Required Parameters.

get("/", function (\$id)

## Optional Parameters:-

It is used where you want to  
make the route param.  
Optional. (i.e. passing it  
occasionally).

data  $\times$  URL 800/user/KRISHA  
USER NAME = KRISHA

1) redirect()

2) view()

Parameter for Routing in

Laurel:-

- \* Required param.
- \* Optional param.

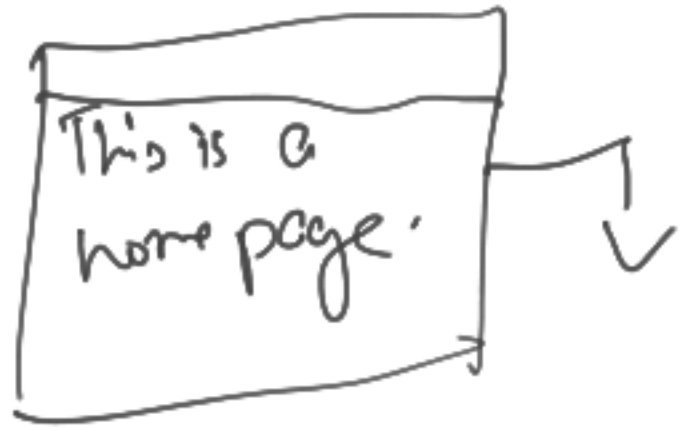
Types of routes  $\leftarrow$  Required  
optional.



```
<?php  
Route::get('/', function()
```

```
{  
    return "This is a home page";
```

```
}  
);
```



localhost:3000/paravelproject/public/

> /contact

localhost:3000/paravelproject  
/public/contact



```
Route::get('/contact', function()
```

```
{  
    return "This is a contact page";
```

```
}  
);
```

```
Route::get('/post/{id?}', function($id) {  
    return "id number is:". $id;  
})
```

required param.

null

localhost:3000/laravel projects/public/post

ERROR page not found

---

```
? Route::get('/post/{name?}', function($name) {  
    return $name;  
});
```



controllers → The middleman b/w the model & view.  
↳ used to handle request logics.

RunQuery()

↳ app/http/controllers.

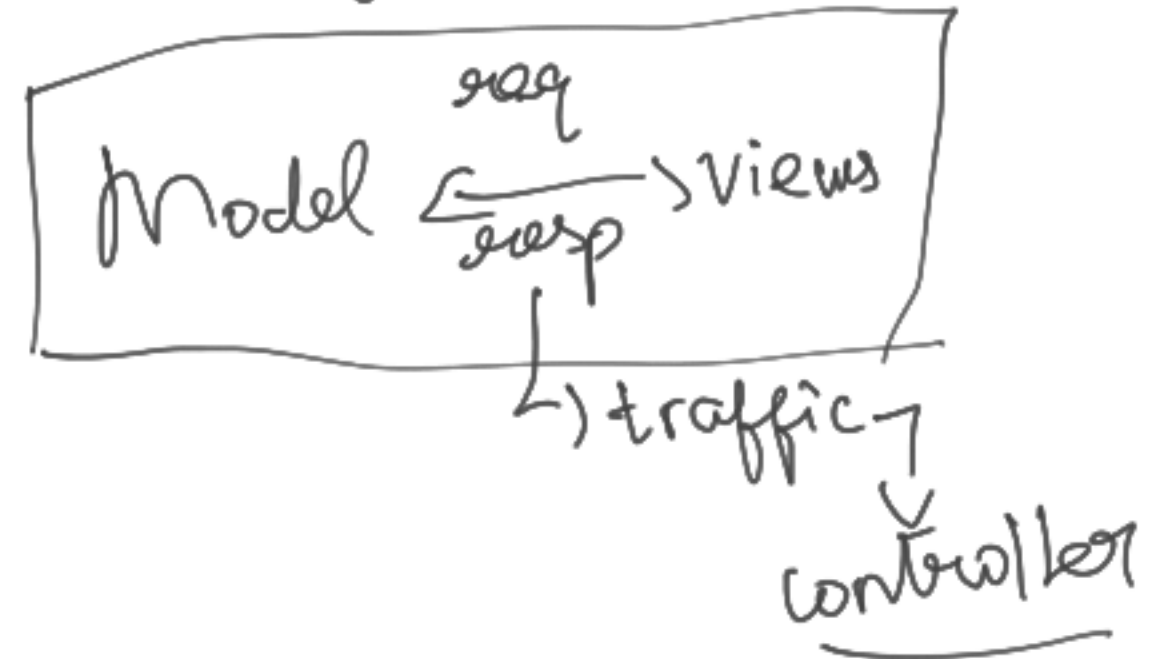
namespace

App\Http

functions1;

functions2;

use





# How to create a controller?

STEP 1: Open cmd prompt in the project directory

STEP 2:

php artisan make:Controller <C.N>

class PostController  
extends Controller

PostController.php

```
{  
//  
}
```

## Basic operations

→ C R U D  
↓ ↓ ↓ ↓  
create READ update delete

Boiler plate :- is a basic structure of a code.

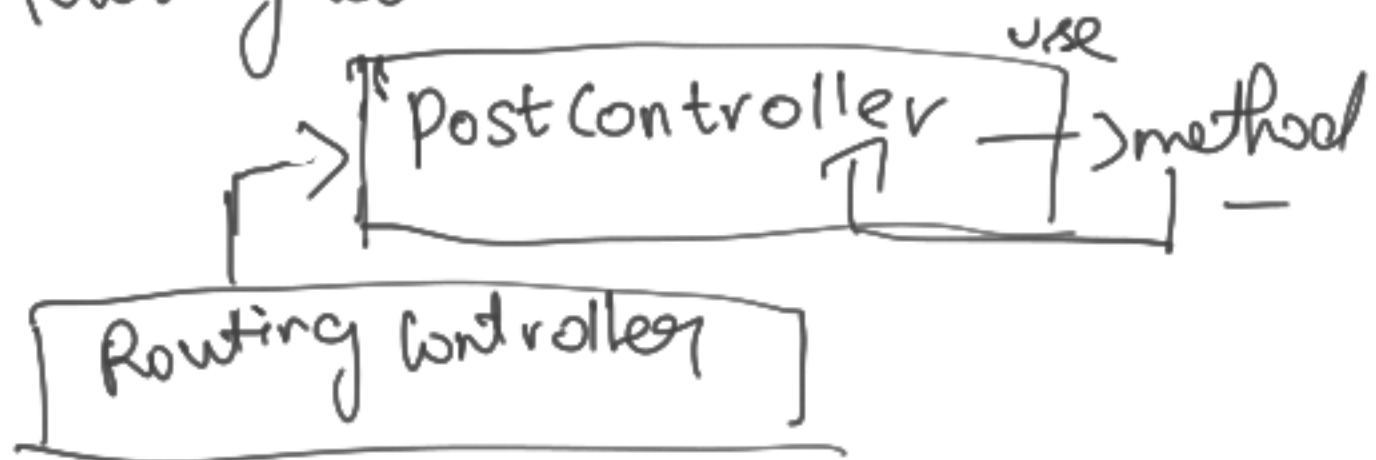
php artisan make:

controller -- resource <C.N>  
PostController

PostController.php

create(), store(), show()  
edit(), update(), destroy()

Routing controllers:-



post controller | web.php

Route::('/post', 'Post Controller@index');

post controller.php / basic B-P

```
{
    public function index()
    {
        return "This page is awesome";
    }
}
```

localhost:3000/laravelproject/  
public/post

How to pass data to the controller class?

postController.php

↓  
public function index(\$id)

```
{
    return "ID is: ". $id;
}
```

↓  
web.php

Route::get('/post/{id}', post Controller@  
index);

localhost/laravelproject/post/50  
id is: 50

## Single Action Controllers

- ↳ use to perform single actions
- ↳ has only one function.

\_\_invoke()

```
class PostController  
    extends Controller  
{  
    public function __invoke($id)  
    {  
        return "id is: ". $id;  
    }  
}
```

```
Route::get('post/{id}', 'PostController');
```

post/68.  
id is: 68

Exceptions in  
occured  
↓  
Unexpected value  
Expression



Template inheritance in Laravel :-

Master page layout :-

/resources/views/layouts/  
create a new file named  
↳ master.blade.php.

```
<html>
<head>
<title> Master page layout </title>
</head>
<body>
<div class="container">
@yield('content')
```

```
</div>
@yield('footer')
</body>
</html>
```

@yield

↳ display something.

Blade template :-

↳ templating

PHP engine

blade template

created by  
blade.

↳ templating

Engine -

.php

blade.php

↳ blade  
template

~~old php  
code~~

```
contact.blade.php
@extends('layout.master')
@section('content')
<h1> Contact page </h1>
@stop
```

```
Route::get('/contact', function() {  
    return view('contact');  
});
```

