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What is laravel?

Laravel is a free, open-source PHP web framework that focus on web applications following the model—view—controller (MVC).

What is framework?

is a library that makes the life of site developer easier by for example hiding some complexities of HTTP protocol or by adding some useful functions

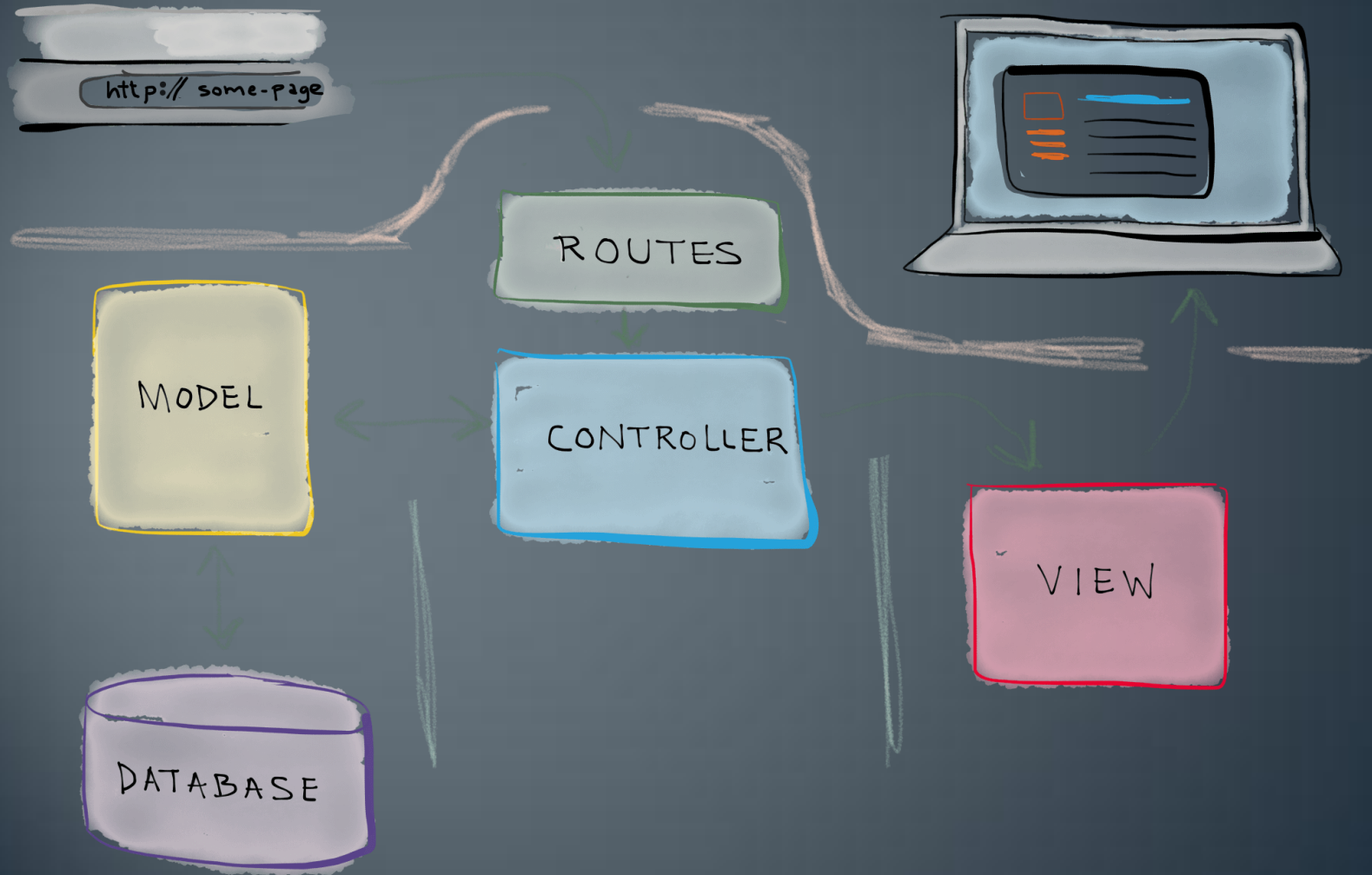
How to install laravel?

to install laravel please make sure your computer has
been installed composer dependencies

→ <https://getcomposer.org/>

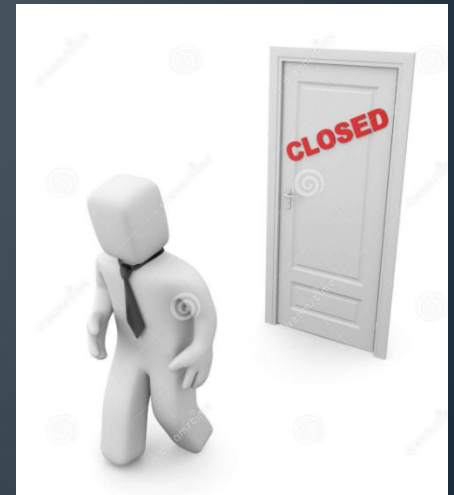
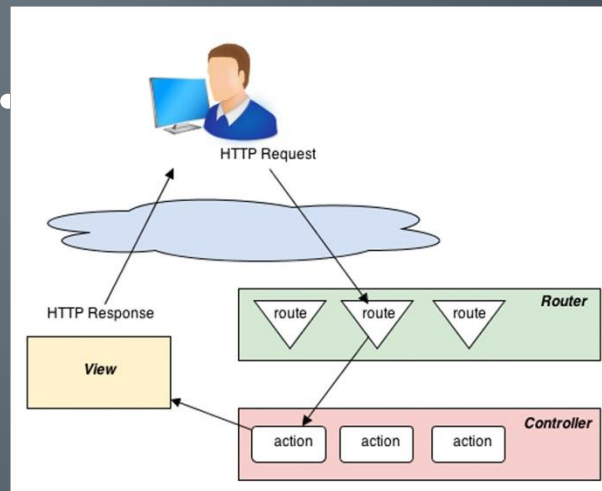


How laravel it work?



What is route?

Route is the way to access to place that you want to go.



What is controller?

Controller is the place to distribute of data to view



What is View?

View is the place that to render data or display data from server script



What is Laravel Middleware?

Middleware is the place to protect of user Request



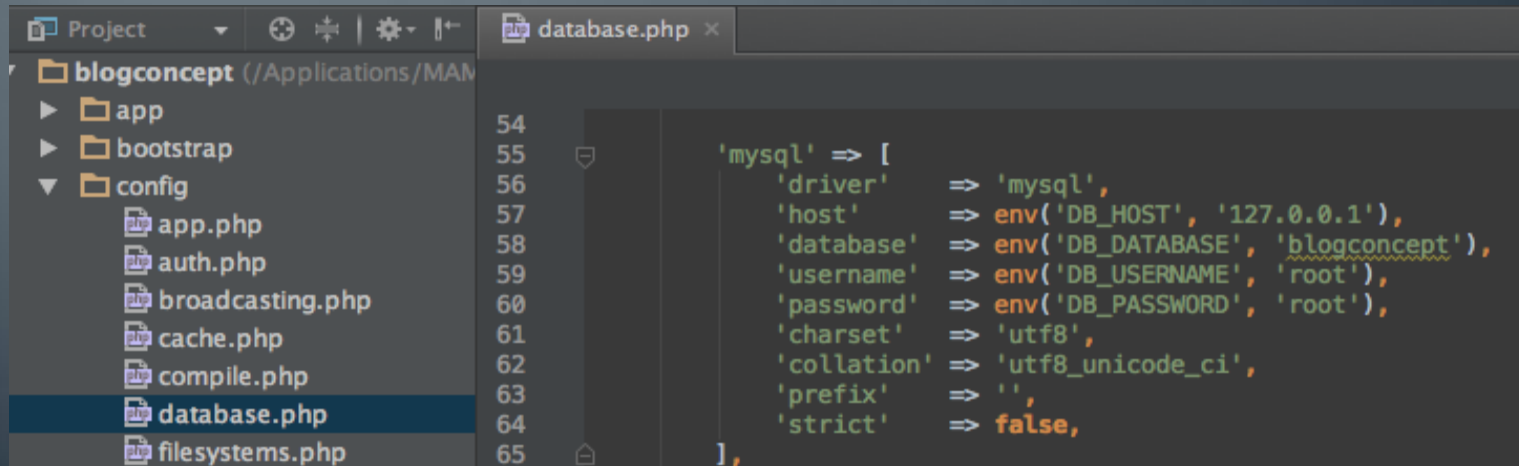
What Laravel Authentication?

Authentication use to create user session for store temporality on the browser.



How Laravel working with Database?

Laravel working with database in file database.php or .env file



The screenshot shows a code editor with a project named 'blogconcept' located at '/Applications/MAN'. The file explorer on the left shows the project structure, including folders 'app', 'bootstrap', and 'config', and files 'app.php', 'auth.php', 'broadcasting.php', 'cache.php', 'compile.php', 'database.php' (highlighted), and 'filesystems.php'. The main editor window displays the contents of 'database.php', which is a configuration array for the database connection. The array is named 'mysql' and contains several key-value pairs, each followed by a comment indicating the corresponding environment variable from the .env file.

```
54  
55  
56     'mysql' => [  
57         'driver'      => 'mysql',  
58         'host'        => env('DB_HOST', '127.0.0.1'),  
59         'database'    => env('DB_DATABASE', 'blogconcept'),  
60         'username'    => env('DB_USERNAME', 'root'),  
61         'password'    => env('DB_PASSWORD', 'root'),  
62         'charset'     => 'utf8',  
63         'collation'   => 'utf8_unicode_ci',  
64         'prefix'      => '',  
65         'strict'     => false,  
66     ],
```

Env file

```
APP_ENV=local
APP_DEBUG=true
APP_KEY=DrHn2g8iiNIkpSTYt2IZN7UcJjGT4UQz

DB_HOST=localhost
DB_DATABASE=homestead
DB_USERNAME=homestead
DB_PASSWORD=secret

CACHE_DRIVER=file
SESSION_DRIVER=file
QUEUE_DRIVER=sync

MAIL_DRIVER=smtp
MAIL_HOST=mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
```

Laravel DB Query & Eloquent

Laravel DB Query & Eloquent is use to access to database (INSERT ,UPDATE,DELETE)

→ DB Query

- getData

```
$users = DB::table('users')->get();
```

```
$users = DB::table('users')->select('name', 'email as user_email')->get();
```

```
$email = DB::table('users')->where('name', 'John')->value('email');
```

- InsertData

```
$user=DB::table('users')->insert['fieldName'=>'value'];
```

- Update

```
$where['id'] = [1];
```

```
DB::table('users')->where($where)->update($update);
```

→ Laravel Eloquent

- getData

```
$user= ModelName::all();
```

```
$user= ModelName::find(id);
```

- updateData

```
$user= ModelName::find(id);
```

```
$user->fieldname=value;
```

```
$user->save();
```

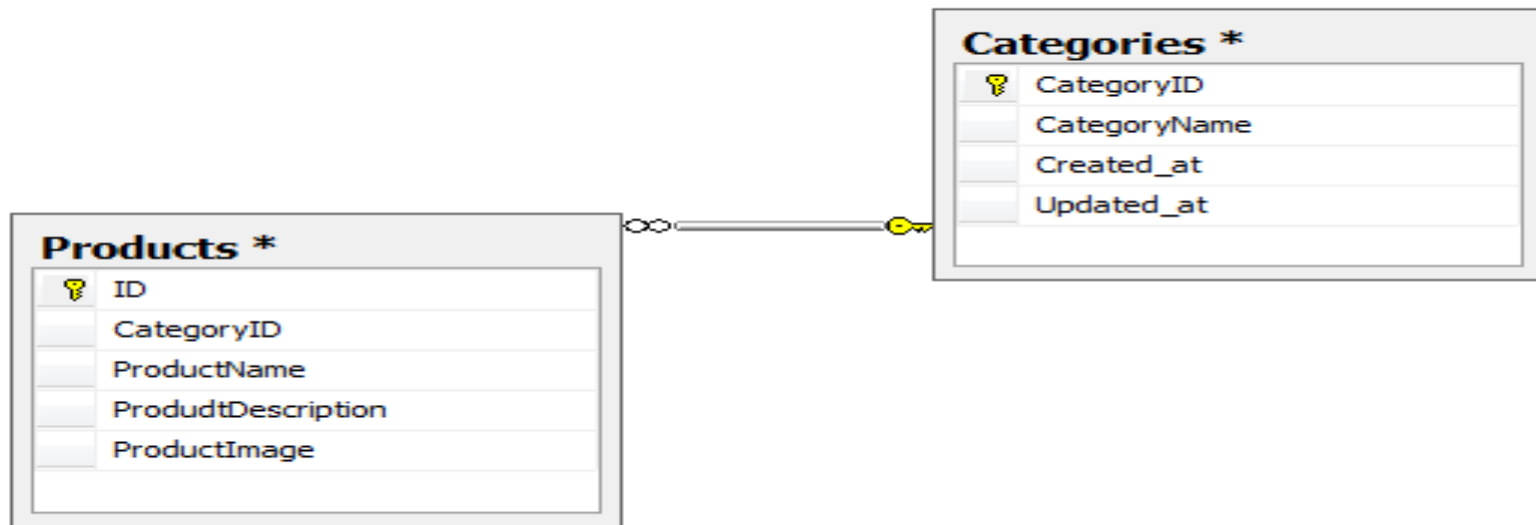
- insertData

```
$user=new ModelName();
```

```
$user->fieldname= vlaue;
```

```
$user->save();
```

Laravel Relational database



➔ Create Model Category

➔ Create Model Product

- Model Category

```
Public function Category(){  
    return $this->hasMany('Product');  
}
```

- Model Product

```
Public function Products(){  
    return $this->belongsTo ('Category');  
}
```


- Get all product in category

```
@foreach($category-> Products as $product)
    {{$product->ProductName}}
@endforeach
```