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# Laravel

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# Introduction

- Laravel est le framework PHP le plus populaires et les plus utilisés.
- créé par Taylor Otwell en 2011
- permet de simplifier le développement d'applications web tout en gardant le code bien organisé.
- Laravel est basé sur le modèle MVC (Modèle-Vue-Contrôleur)

# Introduction

Laravel fournit de nombreux composants prêts à l'emploi, tels que

- l'authentification,
- la validation,
- la gestion des fichiers,
- la mise en cache,
- la gestion des sessions,
- la gestion des tâches planifiées
- .....

# Installation

Pour créer un projet laravel, il faut installer **composer** puis

***\$composer create-project laravel/laravel=10 myproject***

# Structure d'un projet Laravel

app/

bootstrap/

config/

database/

public/

resources/

# Les Routes

```
// fichier routes/web.php
<?php

use Illuminate\Support\Facades\Route;

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

# Les Routes

```
<?php

use Illuminate\Support\Facades\ Route;

Route::get('/', function (Request $req) {
    return ["name"=>"Mohammed", "age"=>41];
});
```

# Les Routes: querystring

```
<?php

use Illuminate\Support\Facades\ Route;
use Illuminate\Http\ Request;

Route::get('/data', function (Request $req) {
    //return $req->all();
    return $req->input("param1","param2");
});
```



# Les Routes: params

```
<?php

use Illuminate\Support\Facades\ Route;
use Illuminate\Http\ Request;

Route::get('/user/{id}-{name}', function (String $id, String $name) {
    return ["id"=>$id, "name"=>$name];
});
```

# Les Routes: params

```
<?php
use Illuminate\Support\Facades\ Route;
use Illuminate\Http\ Request;

Route::get('/user/{id}-{name}', function (String $id, String $name) {
    return ["id"=>$id, "name"=>$name];
})->name("user");

Route::get('/user', function () {
    return ["link"=>\route("user", ["id"=>2, "name"=>"Mohammed"])] ;
});
```

# Les Routes: prefix

```
<?php
use Illuminate\Support\Facades\ Route;
use Illuminate\Http\ Request;

Route::get('/user/{id}-{name}', function (String $id, String $name) {
    return ["id"=>$id, "name"=>$name];
})->name("user");

Route::get('/user', function () {
    return ["link"=>\route("user", ["id"=>2, "name"=>"Mohammed"])] ;
});
```

***\$php artisan route:list***

# Les Base de données: migrattions

- Dans config/database.php sont définis les config des différentes types de base de données
- Dans .env, choisir le type de base de donnée souhaité
  - `DB_CONNECTION=mysql`
- Créer une migration
  - `$ php artisan make-migration CreateUsersTable`

# Migrations

```
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration{
    public function up(): void{
        Schema::create('users', function (Blueprint $table) {
            $table->id();
            $table->string("name");
            $table->string("email")->unique();
            $table->string("password");
            $table->timestamps();
        });
    }

    public function down(): void{
        Schema::dropIfExists('users');
    }
};
```

*\$php artisan migrate*

# Models: insert

\$ php artisan make:model Post

```
Route::post('/post', function () {  
    $post=new \App\Models\Post();  
    $post->title="Introduction à Laravet";  
    $post->slug="intro-laravel2";  
    $post->content="Un contenu ....";  
    $post->save();  
    return $post;  
});
```

# Models: get

```
Route::get('/post', function () {  
    $posts = \App\Models\Post::all();  
    //$posts= \App\Models\Post::all(["title","content"]);  
    //$posts= \App\Models\Post::find(1);//id=1  
    //$posts= \App\Models\Post::findOrFail(1);//id=1  
    //$posts= \App\Models\Post::paginate(10);  
    //$posts= \App\Models\Post::paginate(10,["id","content"]);  
    //$posts = \App\Models\Post::where("id",>,0)->limit(1)->get();  
    //dd($posts);  
    return $posts;  
});
```

# Models: update

```
Route::put('/post', function () {  
  
    $post= \App\Models\Post::find(1);  
    $post->title="Introduction à Nodejs";  
    $post->save();  
  
    return $post;  
});
```



# Models: delete

```
Route::delete('/post/{id}', function (String $id) {  
  
    $post= \App\Models\Post::find($id);  
    $post->delete();  
  
    return $post;  
});
```