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## Step 1: Laravel 11 Installation

To start working with Laravel 11, you first need to create a new Laravel project.

Open your terminal or command prompt and run the following command:

```
composer create-project laravel/laravel my-laravel-app
```

What this command does:

- composer: This is the tool used to install PHP packages, including Laravel.
- create-project: This tells Composer to create a brand new project.
- laravel/laravel: This is the official Laravel starter project.
- my-laravel-app: This will be the name of the folder where the project is created (you can change it to any name you want).

## **Step 2:Configuring MySQL Database**

.env

DB\_CONNECTION=mysql نوع قاعدة البيانات

DB\_HOST=your\_mysql\_host عنوان السيرفر

DB\_PORT=your\_mysql\_port (رقم البورت 3306)

DB\_DATABASE=your\_database\_name اسم قاعدة البيانات

DB\_USERNAME=your\_database\_username (اسم المستخدم (root))

DB\_PASSWORD=your\_database\_password

## EXAMPLE

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=student_system
DB_USERNAME=root
DB_PASSWORD=
```

## Step 3: Creating Migration for Notes

إحنا بنجهز Laravel

عشان ينشئ جدول في قاعدة البيانات اسمه

notes

والجدول ده هيكون فيه عمودين

title و content

php artisan make:migration create\_notes\_table --create=notes use this command

php artisan: هستخدمه عشان اعمل الامر ف التيرمنال

make:migration: نعمل ملف جديد

create\_notes\_table: اسم الملف اللي هعمله

--create=notes: table name notes

Next we will find in database/migrations this code

```
<?php
```

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

return new class extends Migration
{
    /**
     * Run the migrations.
     */
}
```

```

public function up(): void
{
    Schema::create('notes', function (Blueprint $table) {
        $table->id();
        $table->string('title');
        $table->text('content');
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function down(): void
{
    Schema::dropIfExists('notes');
}
};

```

Then write `php artisan migrate` to make and run all of this

## Step 4: Set Up Routes

Move to `routes/web.php`

```
use App\Http\Controllers\NoteController;
```

```
Route::resource('notes', NoteController::class);
```

نربط الراوتر (المسارات) بالكنترولر المسؤول عن تنفيذ notes العمليات على جدول

## Step 5: Generating Form Request Validation Class

التحقق من البيانات

`php artisan make:request NoteStoreRequest`

ه يتم إنشاء الملف الجديد في

`App/Http/Requests/NoteStoreRequest.php`

Then write this code in it

```
<?php

namespace App\Http\Requests;

use Illuminate\Foundation\Http\FormRequest;

class NoteStoreRequest extends FormRequest
{
    /**
     * Determine if the user is authorized to make this request.
     */
    public function authorize(): bool
    {
        return true;
    }

    /**
     * Get the validation rules that apply to the request.
     *
     * @return array
     */
    public function rules(): array
    {
        return [
            'title' => 'required|string|max:255',
            'content' => 'required|string',
        ];
    }
}
```

Then write this command

```
php artisan make:request NoteUpdateRequest
```

بص دا بيعمل تحقيق للبيانات يشوفها صح ولا لا و بيقى فيه قواعد عشان اتحقق من الصحه

This is the path to file

**app/Http/Requests/NoteUpdateRequest.php\**

## The rules

```
'title' => 'required|string|max:255',  
'content' => 'required|string',
```

## Step 6: Creating Controller and Model

```
php artisan make:controller NoteController --resource --model=Note
```

دا بيعمل ملفين مع بعض

1.controller his name is NoteController

دا بقي عليه كل العمليات الخاصه بالجدول زي

Create ,read,update,delete

2.Model name is note دا اللي بيربط بين الكود و الجدول ف قاعده البيانات

=====

اول ما الكود يترن تلقائي هلاقي ملف جديد موجود ف المسار دا

app/Http/Controllers/NoteController.php

الملف بقي موجود فيه 7 دوال جاهزه للاستخدام

## Make update in app/Models/Note.php

### Write this in his code

```
class Note extends Model  
{  
    use HasFactory;  
  
    protected $fillable = [  
        'title',  
        'content',  
    ];  
}
```

```
Add use Illuminate\Database\Eloquent\Factories\HasFactory;
```

To can run it

## Step 7:Update AppServiceProvider

In this step we need to make laravel use Bootstrap 5 to design pagination

Update in app/Providers/AppServiceProvider.php

Write this `public function boot(): void`

```
{  
    Paginator::useBootstrap();  
}
```

## Step 8:Adding Blade Files

Create folder notes and make

**1/resources/views/notes/layout.blade.php**

**2/ resources/views/notes/index.blade.php**

**3/ resources/views/notes/create.blade.php**

**4/ resources/views/notes/edit.blade.php**

**5/ resources/views/notes/show.blade.php**

**Then** run the Laravel app by command `php artisan serve`

To download laravel 11 app use

git `clone` <https://github.com/umar28dec/laravel-11-crud.git>

