LARAVEL I I

Part 2: DB & Models















CONNECT TO DB

Configure DB from .env file

DB_CONNECTION=mysql

DB_HOST=127.0.0.1

DB_PORT=3306

DB_DATABASE=dbName

DB_USERNAME=root

DB_PASSWORD=















MYSQL DB CONECTION

Config → database.php

Create your DB

From .env add

DB_SOCKET=/Applications/MAMP/tmp/mysql/mysql.sock

From cmd

php artisan migrate















MIGRATION ARTISAN COMMANDS

- php artisan migrate:status
- php artisan migrate:rollback
- php artisan migrate:reset
- php artisan migrate:refresh
- php artisan migrate:fresh

https://laravel.com/docs/10.x/migrations















CREATE YOUR FIRST MIGRATION TABLE

From cmd type

php artisan make:migration create_clients_table

And add the columns and constraints

https://laravel.com/docs/10.x/migrations#creating-tables

https://www.heinsoe.com/blog/85















CREATE YOUR FIRST MODEL

From cmd type

php artisan make:model Client

Note: First letter is capital and is a single to word clients which used in the previous slide















USE MODEL IN A CONTROLLER

Inside your controller use the model





use App\Models\Client;











INSERT DATA TO DB

```
Inside your controller use the method

public function store(Request $request)
   {
      $client = new Client();
      $client->name = $request->name;
      $client->email = $request->email;
      $client->save();
      return 'Added Successfully';
}
```















GET DATA USING THE MODEL

Create blade file for your data

Inside the controller use method















GET DATA USING THE MODEL

Inside you blade file you can get the method data















INSERT DATA TO DB (ANOTHER METHOD)















INSERT DATA TO DB (ANOTHER METHOD)

```
Inside the controller
Define array as a property to the controller class
private $columns = ['name', 'email'];

public function store(Request $request): RedirectResponse
    {
        Client::create($request->only($this->columns));
        return redirect('clients');
    }
```















Update blade file table















Create blade file for the update form

```
<form action="{{ route('updateClient',[$client->id]) }}" method="post">
    @csrf
    @method('put')
    <input type="text" name="name" placeholder="Name" value="{{ $client->name }}">
    <hr>
        <input type="text" name="email" placeholder="Email" value="{{ $client->email }}">
        <input type="submit" value="Submit">
        </form>
```















Create Routes

```
Route::get("editClient/{id}", [exampleController::class,"edit"])-
>name('editClient');

Route::put("updateClient/{id}",
   [exampleController::class,"update"])->name('updateClient');
```















Inside the controller

```
public function edit(string $id)
{
     $client = Client::findOrFail($id);
     return view('updateClient', compact('client'));
}

public function update(Request $request, string $id): RedirectResponse
{
     Client::where('id', $id)->update($request->only($this->columns));
     return redirect('clients');
}
```















SHOW I ROW FROM DB

Update your blade file to have a show link















SHOW I ROW FROM DB

- Create a blade file to show the data
- Add new route

```
Route::get("show/{id}", [exampleController::class,"show"])-
>name('showClient');
```















SHOW I ROW FROM DB

Add method to your controller

```
public function show(string $id)
{
    $client = Client::findOrFail($id);
    return view('show', compact('client'));
}
```















DELETE FROM DB

Inside the clients list blade file add in a new td tag

```
    <form action="{{ route('deleteClient') }}" method="post">
        @csrf
        @method('DELETE')
        <input type="hidden" name="id" value="{{ $data->id }}">
              <input type="submit" value="delete">
              </form>
```















DELETE FROM DB

Add new route

```
Route::delete("delete", [exampleController::class,"destroy"])-
>name('deleteClient');
```















DELETE FROM DB

Add new method to your controller

```
public function destroy(Request $request): RedirectResponse
{
    $id = $request->id;
    Client::where('id', $id)->delete();
    return redirect('clients');
}
```















SOFTDELETE

Database → migrations → Your table file

bbA

\$table->softDeletes();

Then be sure to migrate from cmd (fresh to add only the new column) php artisan migrate:fresh















SOFTDELETE

App → Models → your model name

Add below

use Illuminate\Database\Eloquent\SoftDeletes;

Inside the class be sure to use the softDeletes like this

use HasFactory, SoftDeletes;















FORCE DELETE

Example in your controller

```
public function destroy(Request $request): RedirectResponse
{
    $id = $request->id;
    //Client::where('id', $id)->forceDelete(); // to permanent delete
    Client::where('id', $id)->delete(); // softdelete
    return redirect('clients');
}
```















Add a blade file for the trashed records and be sure to add a button to restore















Add method to your controller to show deleted records page

```
public function showDeleted()
{
     $client = Client::onlyTrashed()->get();
     return view('trashedClients', compact('client'));
}
```















Add method to your controller for restore

```
public function restore(Request $request): RedirectResponse
{
    $id = $request->id;
    Client::where('id', $id)->restore();
    return redirect('clients');
}
```















Add route

```
Route::get("deleted", [exampleController::class,"showDeleted"])-
>name('showDeleted');

Route::post("restore", [exampleController::class,"restore"])-
>name('restore');
```















FORM VALIDATION















FORM VALIDATION















FORM VALIDATION

To restore old values in the form use value old as below

```
<input type="text" name="name" placeholder="Name" value="{{
  old('name') }}">
```















USE VALIDATION FOR STORE (BEST PRACTICE)















CUSTOM ERROR MESSAGES















MORE ABOUT VALIDATION

https://laravel.com/docs/10.x/validation

Validation rules

https://laravel.com/docs/10.x/validation#available-validation-rules















UPLOAD FILE

Be sure to add the images folder to the public folder \rightarrow assets Goto config \rightarrow filesystems.php and add below code















UPLOAD FILE

More details about filesystems.php

https://laravel.com/docs/10.x/filesystem















UPLOAD FILE - CREATE VIEW FORM















UPLOAD FILE - CONTROLLER















ANOTHER METHOD UPLOAD FILE – CREATE TRAIT FOR YOUR UPLOADER

```
Add Traits folder to App and add file Common.php, then add below code
namespace App\Traits;

Trait Common {
    public function uploadFile($file, $path){
        $file_extension = $file->getClientOriginalExtension();
        $file_name = time() . '.' . $file_extension;
        $file->move($path, $file_name);
        return $file;
    }
}
```















ANOTHER METHOD UPLOAD FILE – CREATE TRAIT FOR YOUR UPLOADER

```
You can call the Trait from the controller like below
use App\Traits\Common;

Inside the class
use Common;

And inside the method

$fileName = $this->uploadFile($request->photo, 'images');
```















ANOTHER METHOD UPLOAD FILE – CREATE TRAIT FOR YOUR UPLOADER

Inside your store controller method you can use















STORE METHOD INCLUDING CHECKBOX VALUE





























