

## EVIDENCE 2

### -ESQUEMA DE FUNCIONAMIENTO DEL SISTEMA:

### \*CODIFICACIÓN DE LAS FUNCIONES DEL SISTEMA:

#### 1) Creación del proyecto de laravel:

```
Símbolo del sistema - php artisan serve
Microsoft Windows [Versión 10.0.22000.2538]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Emiliano>cd C:\Users\Emiliano\Desktop\laravel

C:\Users\Emiliano\Desktop\laravel>composer create-project laravel/laravel Evidencia2
Creating a "laravel/laravel" project at "C:/Evidencia2"
Installing laravel/laravel (v11.0.5)
- Downloading laravel/laravel (v11.0.5)
- Installing laravel/laravel (v11.0.5): Extracting archive
Created project in C:\Users\Emiliano\Desktop\laravel\Evidencia2
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 111 installs, 0 updates, 0 removals
- Locking brick/math (0.11.0)
- Locking carbonphp/carbon-doctrine-types (3.2.0)
- Locking dflydev/dot-access-data (v3.0.2)
- Locking doctrine/inflector (2.0.10)
- Locking doctrine/lexer (3.0.1)
- Locking dragonmantel/cross-expression (v3.3.3)
- Locking egulias/email-validator (4.0.2)
- Locking fakerphp/faker (v1.23.1)
- Locking filp/whoops (2.15.4)
- Locking fruitcake/php-cors (v1.3.0)
- Locking graham-campbell/result-type (v1.1.2)
- Locking guzzlehttp/guzzle (7.8.1)
- Locking guzzlehttp/promises (2.0.2)
- Locking guzzlehttp/psr7 (2.6.2)
- Locking guzzlehttp/uri-template (v1.0.3)
- Locking hamcrest/hamcrest-php (v2.0.1)
- Locking laravel/framework (v11.2.0)
- Locking laravel/pint (v1.15.1)
- Locking laravel/prompts (v0.1.17)
- Locking laravel/sail (v1.29.1)
- Locking laravel/serializable-closure (v1.3.3)
- Locking laravel/tinker (v2.9.0)
- Locking league/commonmark (2.4.2)
- Locking league/config (v1.2.0)
- Locking league/flysystem (3.26.0)
- Locking league/flysystem-local (3.25.1)
- Locking league/mime-type-detection (1.15.0)
- Locking mockery/mockery (1.6.11)
- Locking monolog/monolog (3.5.0)
- Locking myclabs/deep-copy (1.11.1)
- Locking nesbot/carbon (3.2.4)
- Locking nette/schema (v1.3.0)
- Locking nette/utils (v4.0.4)
- Locking nikic/php-parser (v5.0.2)
```

1.1) Inicialización del server de acción del sistema:

```

- Símbolo del sistema - php artisan serve

- Installing spatie/laravel-ignition (2.5.1): Extracting archive
Package suggestions were added by new dependencies, use "composer suggest" to see details.
Generating optimized autoload files
Illuminate\Foundation\ComposerScripts::postAutoloadDump
@php artisan package:discover --ansi

[INFO] Discovering packages.

laravel/sail ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

@php packages you are using are looking for funding.
Use the "composer fund" command to find out more!
@php artisan vendor:publish --tag=laravel-assets --ansi --force

[INFO] No publishable resources for tag [laravel-assets].

No security vulnerability advisories found.
@php artisan key:generate --ansi

[INFO] Application key set successfully.

@php -r "file_exists('database/database.sqlite') || touch('database/database.sqlite');"
@php artisan migrate --graceful --ansi

[INFO] Preparing database.

Creating migration table ..... 7.36ms DONE

[INFO] Running migrations.

0001_01_01_000000_create_users_table ..... 24.42ms DONE
0001_01_01_000001_create_cache_table ..... 6.29ms DONE
0001_01_01_000002_create_jobs_table ..... 15.22ms DONE

C:\Users\Emliano\Desktop\laravel>cd Evidencia2
C:\Users\Emliano\Desktop\laravel\Evidencia2>php artisan serve

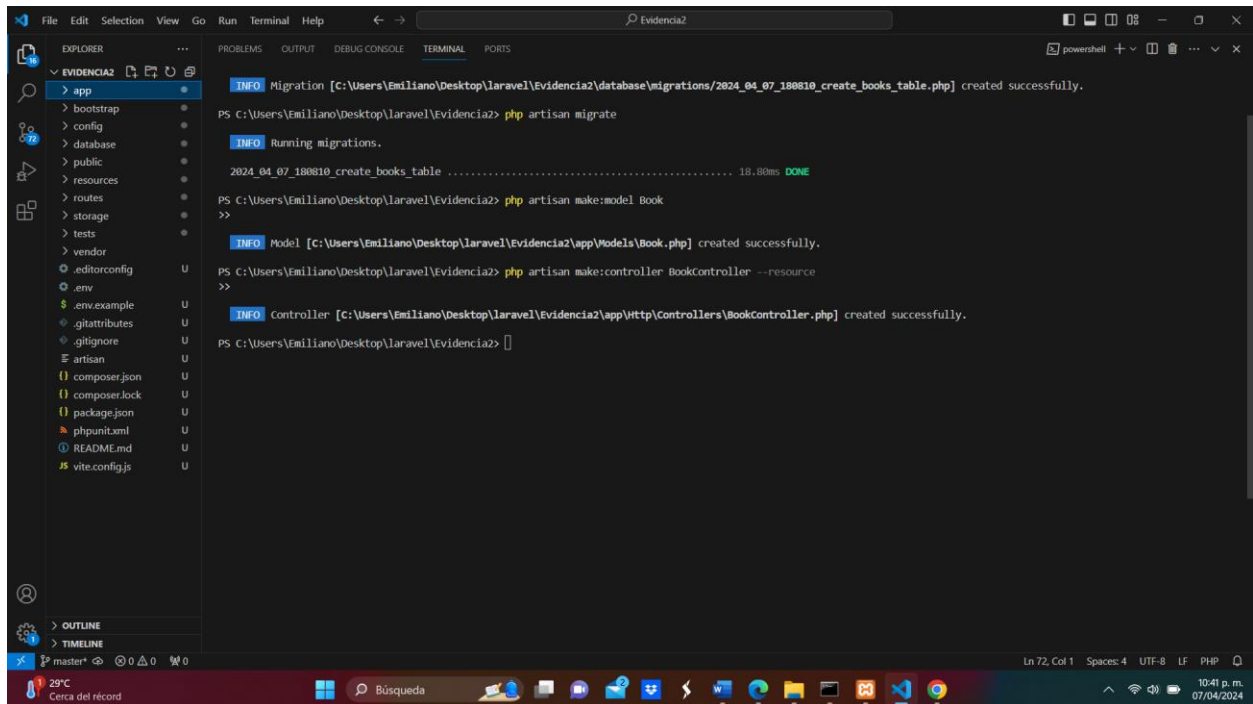
[INFO] Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server

```

## 2) INICIALIZACIÓN DEL REPOSITORIO DE GIT:

### 3) CREACIÓN E IMPLEMENTO DE LA MIGRACIÓN, MODELO Y CONTROLADOR DEL SISTEMA:



The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure of 'Evidencia2'. The main editor area shows the output of several terminal commands executed in a PowerShell window. The commands and their outputs are as follows:

```
PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan migrate
INFO Migration [C:\Users\Emiliano\Desktop\laravel\Evidencia2\database\Migrations\2024_04_07_180810_create_books_table.php] created successfully.

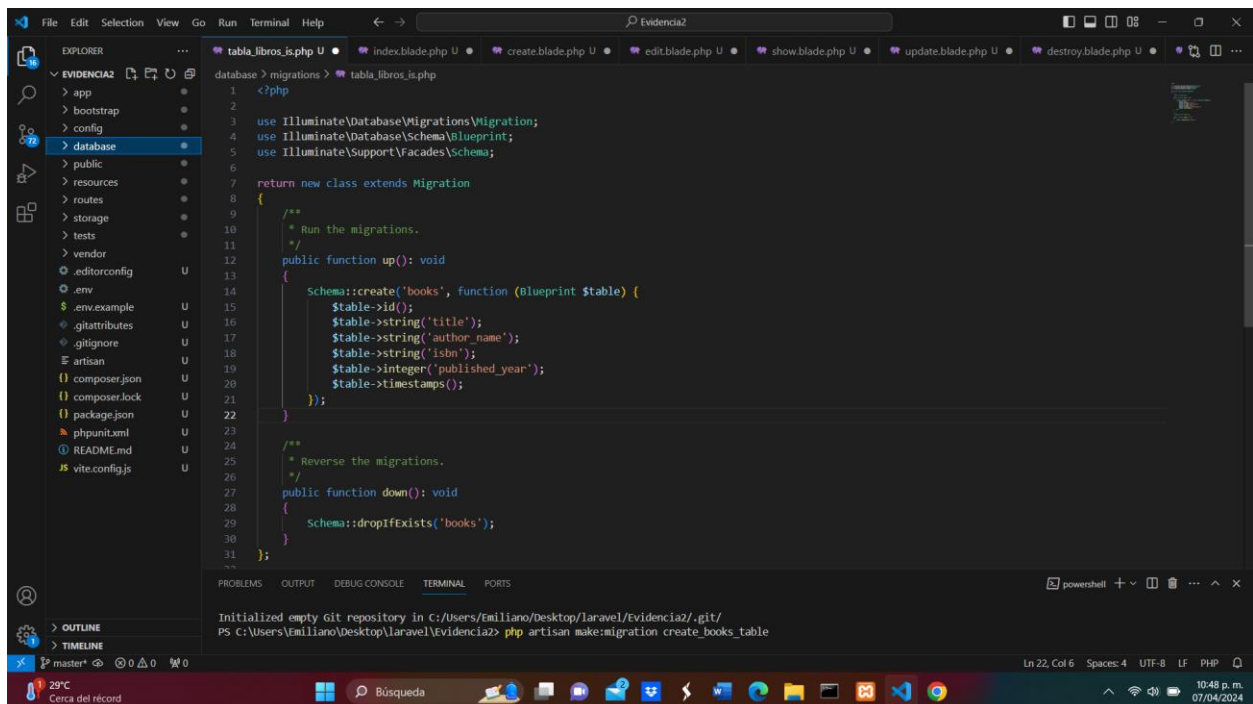
PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan make:model Book
INFO Running migrations.
2024_04_07_180810_create_books_table ..... 18.80ms DONE

PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan make:controller BookController --resource
INFO Model [C:\Users\Emiliano\Desktop\laravel\Evidencia2\app\Models\Book.php] created successfully.

PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan make:controller BookController --resource
INFO Controller [C:\Users\Emiliano\Desktop\laravel\Evidencia2\app\Http\Controllers\BookController.php] created successfully.

PS C:\Users\Emiliano\Desktop\laravel\Evidencia2>
```

### 4) CODIFICACIÓN DE LOS ELEMENTOS DE ACCIÓN DE LA MIGRACIÓN REFERENTE AL ESQUEMA DE LIBROS:



The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure of 'Evidencia2'. The main editor area shows the code for a migration file named 'tabla\_libros\_is.php'. The code is as follows:

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('books', function (Blueprint $table) {
15             $table->id();
16             $table->string('title');
17             $table->string('author_name');
18             $table->string('isbn');
19             $table->integer('published_year');
20             $table->timestamps();
21         });
22     }
23
24     /**
25      * Reverse the migrations.
26      */
27     public function down(): void
28     {
29         Schema::dropIfExists('books');
30     }
31 }
```

## 5) CODIFICACIÓN E IMPLICACIÓN DEL CONTROLADOR DEL SISTEMA:

The image displays two screenshots of a Visual Studio Code editor window, showing the development of a BookController in a Laravel project named 'Evidencia2'.

**Top Screenshot:** The file explorer on the left shows the project structure. The main editor displays the `BookController.php` file, which includes the following code:

```
<?php
namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Book; // Asegurate de importar el modelo de Book

class BookController extends Controller
{
    //TOTAL DE LIBROS IMPLICADOS
    public function index()
    {
        $books = Book::all();
        return view('books.index', ['books' => $books]);
    }

    //FORMULARIO DE CREACIÓN DE LIBROS
    public function create()
    {
        return view('books.create');
    }

    //ALMACENAMIENTO DE LOS DATOS DE UN NUEVO LIBRO CREADO
    public function store(Request $request)
    {
        $validatedData = $request->validate([
            'title' => 'required',
            'author_name' => 'required',
            'isbn' => 'required',
            'published_year' => 'required|integer',
        ]);

        // ... (code continues) ...
    }
}
```

The terminal at the bottom shows the command `PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan make:migration create_books_table` and the output `Initialized empty Git repository in C:\Users\Emiliano\Desktop\laravel\Evidencia2\.git/`.

**Bottom Screenshot:** The file explorer on the left shows the project structure. The main editor displays the `BookController.php` file, which includes the following code:

```

    public function create()
    {
        return view('books.create');
    }

    //ALMACENAMIENTO DE LOS DATOS DE UN NUEVO LIBRO CREADO
    public function store(Request $request)
    {
        $validatedData = $request->validate([
            'title' => 'required',
            'author_name' => 'required',
            'isbn' => 'required',
            'published_year' => 'required|integer',
        ]);

        Book::create($validatedData);

        return redirect()->route('books.index')->with('success', 'Libro creado correctamente');
    }

    //VISUALIZACIÓN DE LOS DETALLES DE UN LIBRO ESPECÍFICO
    public function show(Book $book)
    {
        return view('books.show', ['book' => $book]);
    }

    //VISUALIZACIÓN DE UN LIBRO ESPECÍFICO CON BASE A SUS DETALLES
    public function edit(Book $book)
    {
        return view('books.edit', ['book' => $book]);
    }
}
```

The terminal at the bottom shows the command `PS C:\Users\Emiliano\Desktop\laravel\Evidencia2> php artisan make:migration create_books_table` and the output `Initialized empty Git repository in C:\Users\Emiliano\Desktop\laravel\Evidencia2\.git/`.

File Edit Selection View Go Run Terminal Help

EXPLORER

- ▼ EVIDENCIA2
  - ▼ app
    - ▼ Http\Controllers
      - BookController.php

app > Http > Controllers > BookController.php

```
9 {
25 {
32     Book::create($validatedData);
33     return redirect()->route('books.index')->with('success', 'Libro creado correctamente');
34 }
35 }
36 }
37 }
38 }
39 }
40 }
41 }
42 }
43 }
44 }
45 }
46 }
47 }
48 }
49 }
50 }
51 }
52 }
53 }
54 }
55 }
56 }
57 }
58 }
59 }
60 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/emiliano/Desktop/laravel/evidencia2/.git/  
PS C:\Users\Emiliano\Desktop\laravel\evidencia2> php artisan make:migration create\_books\_table

Ln 72, Col 1 Spaces: 4 UTF-8 LF PHP

File Edit Selection View Go Run Terminal Help

EXPLORER

- ▼ EVIDENCIA2
  - ▼ app
    - ▼ Http\Controllers
      - BookController.php

app > Http > Controllers > BookController.php

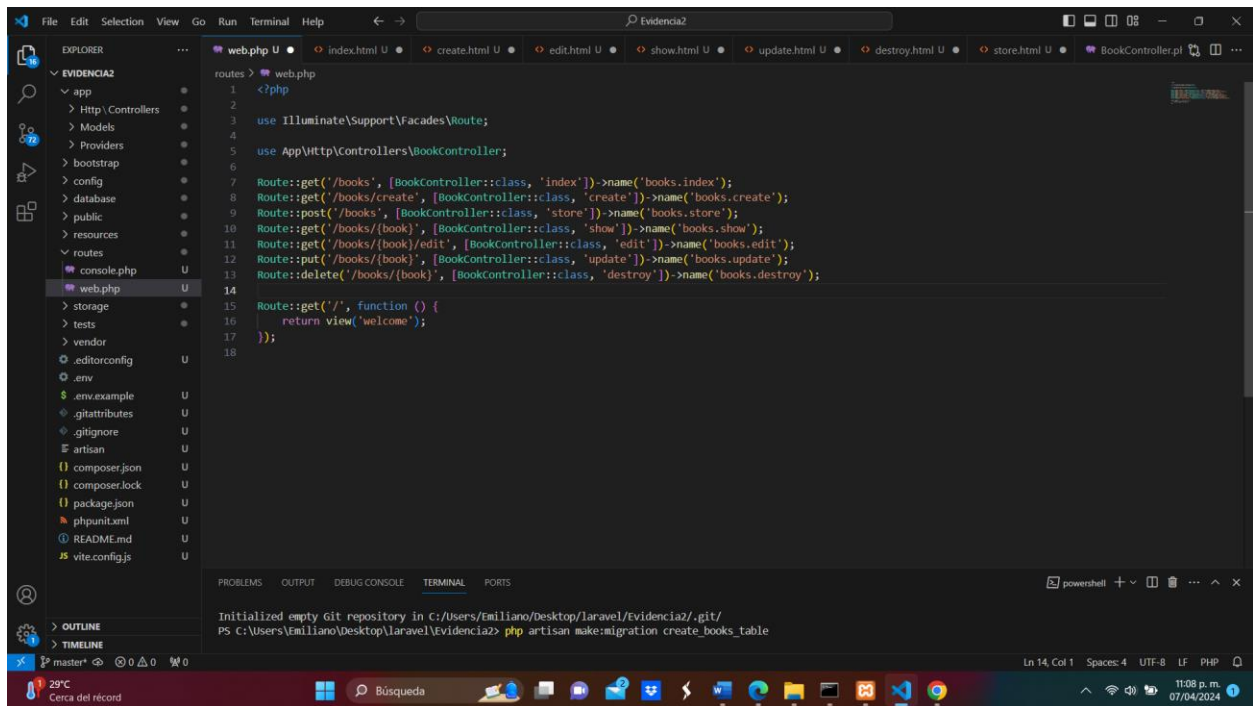
```
45 {
46     return view('books.edit', ['book' => $book]);
47 }
48 }
49 }
50 }
51 }
52 }
53 }
54 }
55 }
56 }
57 }
58 }
59 }
60 }
61 }
62 }
63 }
64 }
65 }
66 }
67 }
68 }
69 }
70 }
71 }
72 }
73 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/emiliano/Desktop/laravel/evidencia2/.git/  
PS C:\Users\Emiliano\Desktop\laravel\evidencia2> php artisan make:migration create\_books\_table

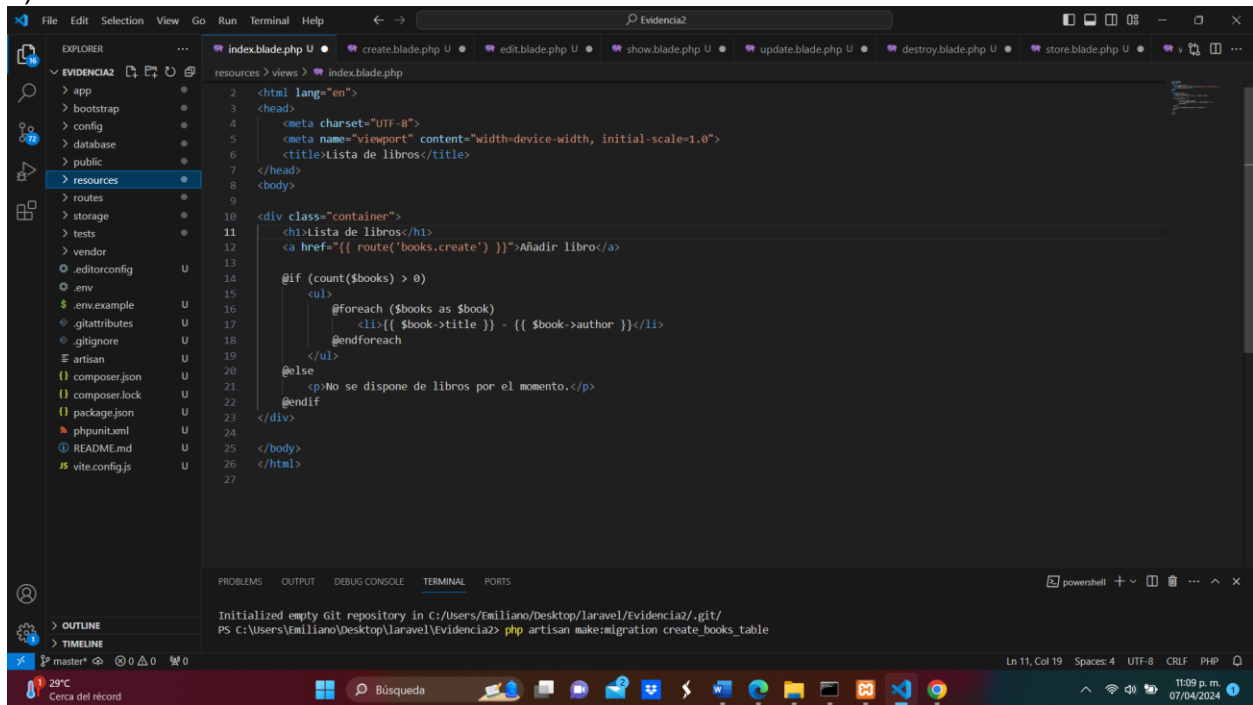
Ln 72, Col 1 Spaces: 4 UTF-8 LF PHP

## 5) DEFINICIÓN DEL ESQUEMA DE RUTAS DEL SISTEMA:



```
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4
5 use App\Http\Controllers\BookController;
6
7 Route::get('/books', [BookController::class, 'index'])->name('books.index');
8 Route::get('/books/create', [BookController::class, 'create'])->name('books.create');
9 Route::post('/books', [BookController::class, 'store'])->name('books.store');
10 Route::get('/books/{book}', [BookController::class, 'show'])->name('books.show');
11 Route::get('/books/{book}/edit', [BookController::class, 'edit'])->name('books.edit');
12 Route::put('/books/{book}', [BookController::class, 'update'])->name('books.update');
13 Route::delete('/books/{book}', [BookController::class, 'destroy'])->name('books.destroy');
14
15 Route::get('/', function () {
16     return view('welcome');
17 });
18
```

## 6) DEFINICIÓN E IMPLICACIÓN DE LAS VISTAS DEL SISTEMA:



```
1 <html lang="en">
2 <head>
3     <meta charset="UTF-8">
4     <meta name="viewport" content="width=device-width, initial-scale=1.0">
5     <title>Lista de libros</title>
6 </head>
7 <body>
8
9
10 <div class="container">
11     <h1>Lista de libros</h1>
12     <a href="{{ route('books.create') }}">Añadir libro</a>
13
14     @if (count($books) > 0)
15         <ul>
16             @foreach ($books as $book)
17                 <li>{{ $book->title }} - {{ $book->author }}</li>
18             @endforeach
19         </ul>
20     @else
21         <p>No se dispone de libros por el momento.</p>
22     @endif
23 </div>
24
25 </body>
26 </html>
27
```



File Edit Selection View Go Run Terminal Help

EXPLORER

- ▼ EVIDENCIA2
  - app
  - bootstrap
  - config
  - database
  - public
  - resources
    - css
    - js
    - views
  - routes
  - storage
  - tests
  - vendor
  - .editorconfig
  - .env
  - .env.example
  - .gitattributes
  - .gitignore
  - artisan
  - composer.json
  - composer.lock
  - package.json
  - phpunit.xml
  - README.md
  - vite.config.js

resources > views > create.blade.php

```
1 <DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Añadir nuevo libro</title>
7 </head>
8 <body>
9
10 <div class="container">
11   <h1>Añadir nuevo libro</h1>
12   <form action="{{ route('books.store') }}" method="POST">
13     @csrf
14     <label for="title">Titulo:</label>
15     <input type="text" name="title" id="title">
16
17     <label for="author">Autor:</label>
18     <input type="text" name="author" id="author">
19
20     <button type="submit">Guardar</button>
21   </form>
22 </div>
23
24 </body>
25 </html>
26
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/  
PS C:/Users/Emiliano/Desktop/laravel/evidencia2> php artisan make:migration create\_books\_table

Ln 20, Col 38 Spaces: 4 UTF-8 CRLF PHP

File Edit Selection View Go Run Terminal Help

EXPLORER

- ▼ EVIDENCIA2
  - app
  - bootstrap
  - config
  - database
  - public
  - resources
    - css
    - js
    - views
  - routes
  - storage
  - tests
  - vendor
  - .editorconfig
  - .env
  - .env.example
  - .gitattributes
  - .gitignore
  - artisan
  - composer.json
  - composer.lock
  - package.json
  - phpunit.xml
  - README.md
  - vite.config.js

resources > views > edit.blade.php

```
1 <DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Modificar libro</title>
7 </head>
8 <body>
9
10 <div class="container">
11   <h1>Modificar libro</h1>
12   <form action="{{ route('books.update', $book->id) }}" method="POST">
13     @csrf
14     @method('PUT')
15     <label for="title">Titulo:</label>
16     <input type="text" name="title" id="title" value="{{ $book->title }}">
17
18     <label for="author">Autor:</label>
19     <input type="text" name="author" id="author" value="{{ $book->author }}">
20
21     <button type="submit">Modificar</button>
22   </form>
23 </div>
24
25 </body>
26 </html>
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/  
PS C:/Users/Emiliano/Desktop/laravel/evidencia2> php artisan make:migration create\_books\_table

Ln 21, Col 40 Spaces: 4 UTF-8 CRLF PHP

File Edit Selection View Go Run Terminal Help

Evidencia2

EXPLORER

- ▼ EVIDENCIA2
  - app
  - bootstrap
  - config
  - database
  - public
  - resources
    - css
    - js
    - views
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  - storage
  - tests
  - vendor
  - .editorconfig
  - .env
  - .env.example
  - .gitattributes
  - .gitignore
  - artisan
  - composer.json
  - composer.lock
  - package.json
  - phpunit.xml
  - README.md
  - vite.config.js

resources > views > show.blade.php

```
1 <DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Detalles del libro</title>
7 </head>
8 <body>
9
10 <div class="container">
11     <h1>Detalles del libro</h1>
12     <p>Titulo: {{ $book->title }}</p>
13     <p>Autor: {{ $book->author }}</p>
14 </div>
15
16 </body>
17 </html>
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/  
PS C:/Users/Emiliano/Desktop/laravel/evidencia2> php artisan make:migration create\_books\_table

Ln 11, Col 23 Spaces: 4 UTF-8 CRLF PHP

File Edit Selection View Go Run Terminal Help

Evidencia2

EXPLORER

- ▼ EVIDENCIA2
  - app
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  - .editorconfig
  - .env
  - .env.example
  - .gitattributes
  - .gitignore
  - artisan
  - composer.json
  - composer.lock
  - package.json
  - phpunit.xml
  - README.md
  - vite.config.js

resources > views > update.blade.php

```
1 <DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Actualizar libros</title>
7 </head>
8 <body>
9
10 <div class="container">
11     <h1>Actualizar libro</h1>
12     <form action="{{ route('books.update', $book->id) }}" method="POST">
13         @csrf
14         @method('PUT')
15         <label for="title">Titulo:</label>
16         <input type="text" name="title" id="title" value="{{ $book->title }}">
17
18         <label for="author">Autor:</label>
19         <input type="text" name="author" id="author" value="{{ $book->author }}">
20
21         <button type="submit">Actualizar</button>
22     </form>
23 </div>
24
25 </body>
26 </html>
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Initialized empty git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/  
PS C:/Users/Emiliano/Desktop/laravel/evidencia2> php artisan make:migration create\_books\_table

Ln 15, Col 34 Spaces: 4 UTF-8 CRLF PHP



```
File Edit Selection View Go Run Terminal Help
Evidencia2
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EVIDENCIA2
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> views
> routes
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> vendor
> .editorconfig
> .env
> .env.example
> .gitattributes
> .gitignore
> artisan
> composer.json
> composer.lock
> package.json
> phpunit.xml
> README.md
> vite.config.js
resources > views > destroy.blade.php
3 <head>
7 </head>
8 <body>
9
10 <div class="container">
11     <h1>Eliminar libro</h1>
12     <p>Es correcta la decisión de eliminar el libro "{{ $book->title }}"</p>
13     <form action="{{ route('books.destroy', $book->id) }}" method="POST">
14         @csrf
15         @method('DELETE')
16         <button type="submit">Eliminar</button>
17     </form>
18 </div>
19
20 </body>
21 </html>
22
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Initialized empty Git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/
PS C:\Users\Emiliano\Desktop\laravel\evidencia2> php artisan make:migration create_books_table
Ln 11, Col 19 Spaces: 4 UTF-8 CRLF PHP
```

```
File Edit Selection View Go Run Terminal Help
Evidencia2
EXPLORER
EVIDENCIA2
> app
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> css
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> routes
> storage
> tests
> vendor
> .editorconfig
> .env
> .env.example
> .gitattributes
> .gitignore
> artisan
> composer.json
> composer.lock
> package.json
> phpunit.xml
> README.md
> vite.config.js
resources > views > store.blade.php
1 <DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Libro guardado</title>
7     <style>
8         /* Estilos CSS */
9     </style>
10 </head>
11 <body>
12
13 <div class="container">
14     <h1>Libro guardado</h1>
15     <p>El libro "{{ $book->title }}" se ha guardado de forma exitosa.</p>
16     <a href="{{ route('books.index') }}">Volver a la lista de Libros</a>
17 </div>
18
19 </body>
20 </html>
21
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Initialized empty Git repository in C:/Users/Emiliano/Desktop/laravel/evidencia2/.git/
PS C:\Users\Emiliano\Desktop\laravel\evidencia2> php artisan make:migration create_books_table
Ln 15, Col 69 Spaces: 4 UTF-8 CRLF PHP
```

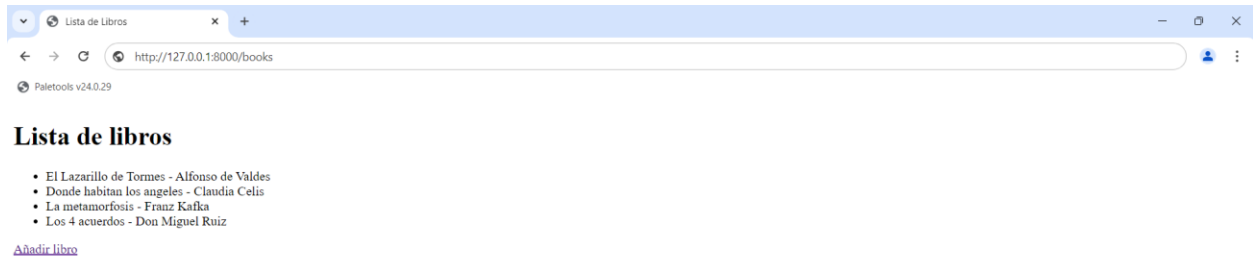
## \*EJECUCIÓN DEL SISTEMA:

### 1) INDEX DEL SISTEMA:



### 2) AGREGACIÓN DE LIBROS AL SISTEMA:

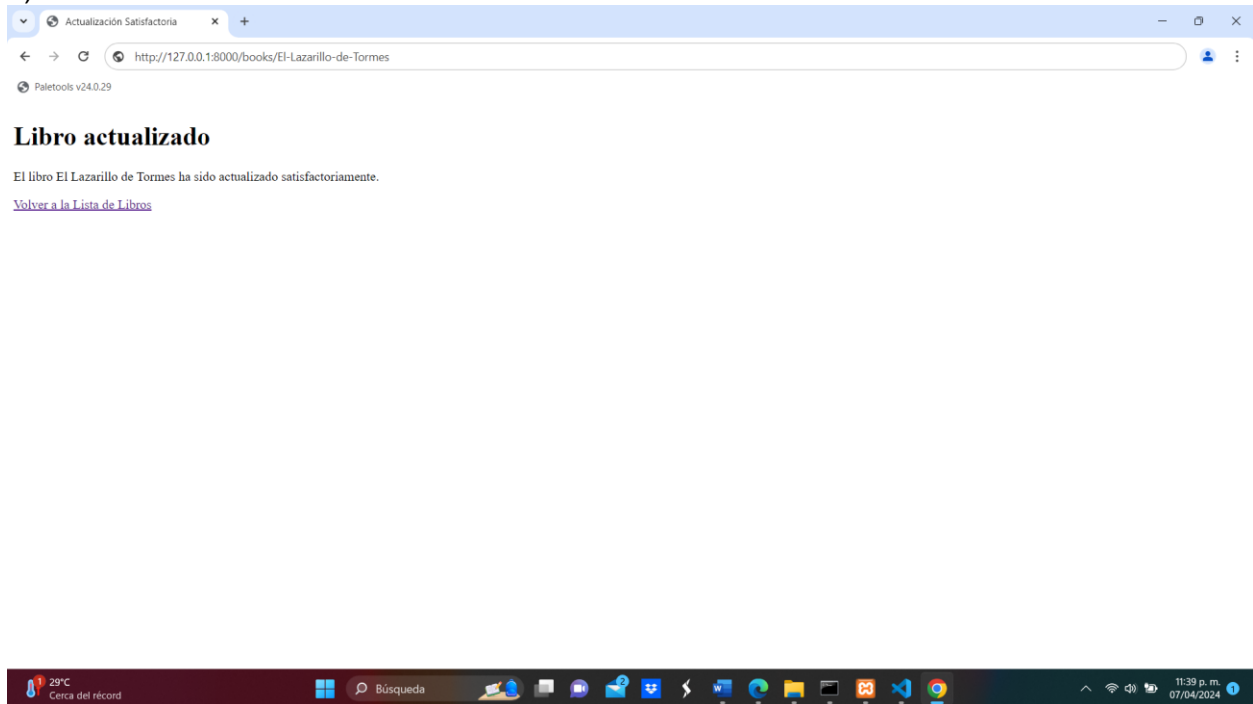




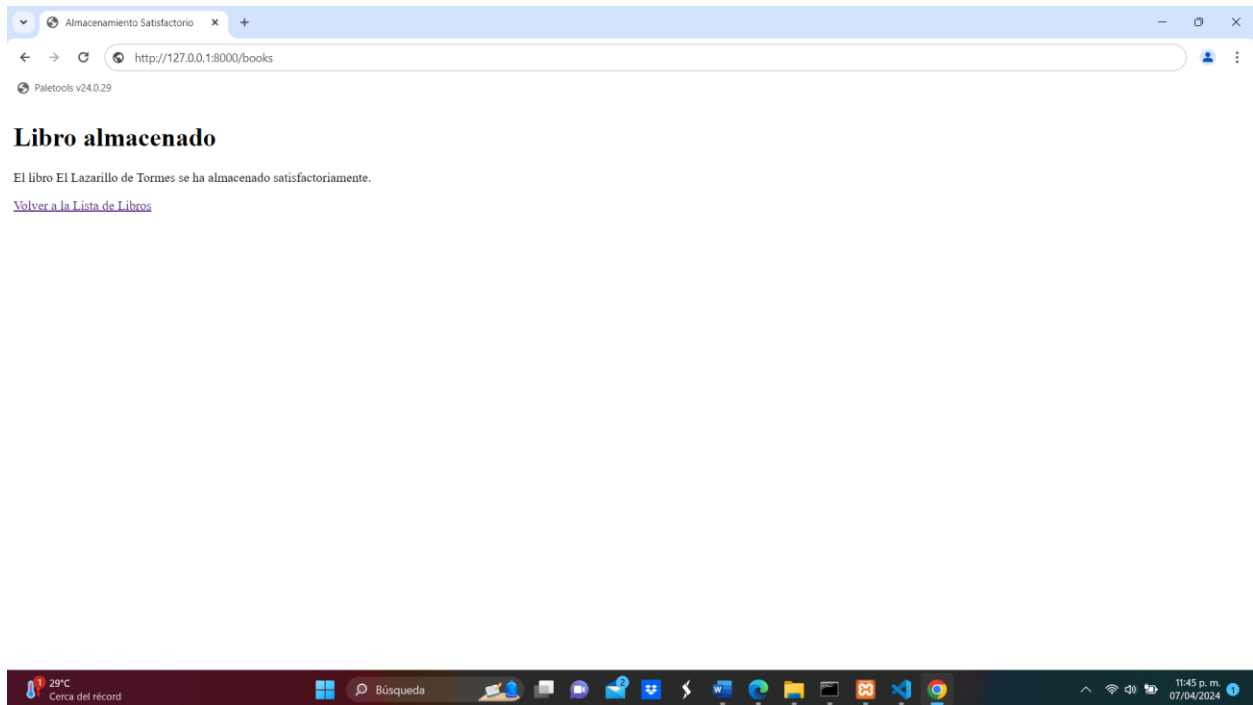
### 3) EDICIÓN DE LOS LIBROS DEL SISTEMA:



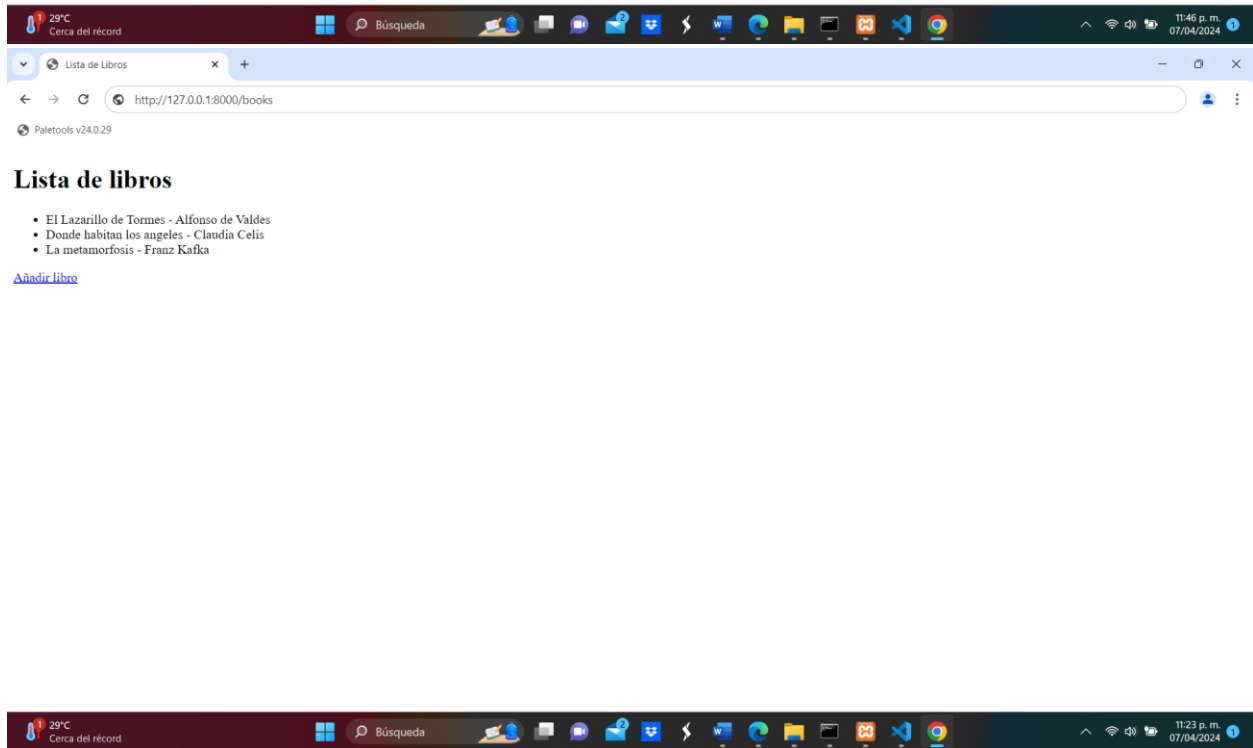
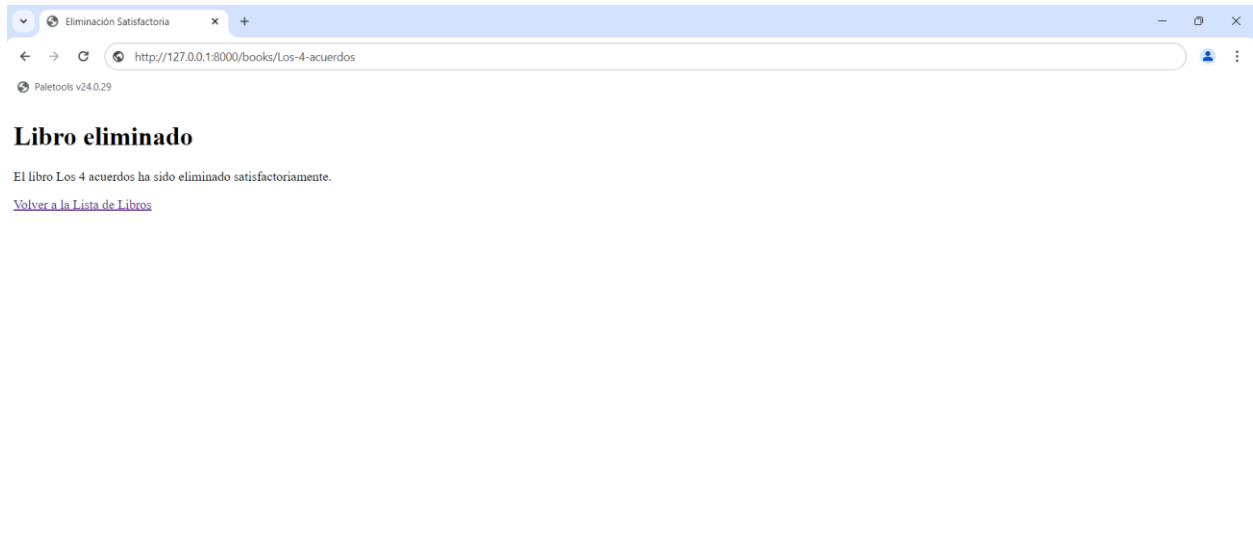
#### 4) ACTUALIZACIÓN DE LOS LIBROS DEL SISTEMA:



#### 5) ALMACENAMIENTO DE LOS LIBROS DEL SISTEMA:



## 6) ELIMINACIÓN DE UN LIBRO:



## 6) DETALLES DE LOS LIBROS DEL SISTEMA:

