

CRUD Operation

Step 1:

```
php artisan make:migration create_items_table
```

Step 2: Edit the migration file

```
public function up(): void
{
    Schema::create('items', function (Blueprint $table) {
        $table->id();
        $table->string('name');
        $table->integer('price');
        $table->timestamps();
    });
}
```

Step 3: Run the migration to create the table

```
php artisan migrate
```

Step 4: Create a Model

```
php artisan make:model Items
```

Step 5: Open app/Models/Items.php and define the fillable fields:

```
class Items extends Model
{
    //
    use HasFactory;

    protected $fillable = ['name', 'price'];
}
```

Step 6: Create a Factory Associated with the Model

```
php artisan make:factory ItemsFactory --model=Items
```




```
class ItemsFactory extends Factory
{
    * Define the model's default state.
    *
    * @return array<string, mixed>
    */

    protected $model= Items::class;

    public function definition(): array
    {
        return [
            //
            'name' => fake()->name(),
            'price' => fake()->randomNumber(5),
        ];
    }
}
```

Step 7: Create a Seeder

```
php artisan make:seeder ItemsSeeder
```

```
database > seeders >  ItemsSeeder.php >  ItemsSeeder >  run
1  <?php
2
3  namespace Database\Seeders;
4
5  use App\Models\Items;
6  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
7  use Illuminate\Database\Seeder;
8
9  class ItemsSeeder extends Seeder
10 {
11     /**
12      * Run the database seeds.
13      */
14     public function run(): void
15     {
16         //
17         Items::factory(30)->create();
18     }
19 }
20
```

Step 8: Run Seeder

```
php artisan db:seed --class=ItemsSeeder
```

Step 9: Create the Controller

```
php artisan make:controller ItemsController --resource
```

Step 10: Update the controller

Show all items

```
/**
 * Display a listing of the resource.
 */
public function index()
{
    //
    $items=Items::all();
    return view('pages.items', compact('items'));
}
```

Routes

```
Route::get('/normal', [ItemsController::class, 'index']);

Route::get('/items', [ItemsController::class, 'index']->middleware(['auth', 'verified']));
```

to access with '/items' user must be authenticated and verified

Creating new item

```
/**
public function create()
{
    //
    if(Auth::user()->role !== 'admin'){
        return redirect('/items')->with('error', 'Unauthorized access!');
    }

    return view('admin.items.create');
}
```

Blade View

```
<x-mainlayout :title="'Admin Panel'" :heading="'Create Item'">

    @section('content')
        <h2>Create Item</h2>
        <form action="{{ route('items.store') }}" method="POST">
            @csrf
            <input type="text" name="name" placeholder="Item Name" required>
            <input type="number" name="price" placeholder="Price" required>
            <button type="submit">Add Item</button>
        </form>
    @endsection
</x-mainlayout>
```

Store newly created item

```
*/
public function store(Request $request)
{
    //
    if (Auth::user()->role !== 'admin') {
        return redirect('/')->with('error', 'Unauthorized action!');
    }

    $request->validate([
        'name' => 'required|string|max:255',
        'price' => 'required',
    ]);

    Items::create([
        'name' => $request->name,
        'price' => $request->price,
    ]);

    return redirect('admin/dashboard')->with('success', 'Item created successfully.');
```

Edit existing item

```
public function edit(Items $item)
{
    //
    if (Auth::user()->role !== 'admin' && Auth::user()->role !== 'editor') {
        return redirect('/')->with('error', 'Unauthorized access!');
    }

    return view('admin.items.edit', compact('item'));
}
```

Blade view

```
<x-mainlayout :title="Admin Panel" :heading="Edit Item">

    @section('content')
        <h2>Edit Item</h2>
        <form action="{{ route('items.update', $item) }}" method="POST">
            @csrf
            @method('PUT')
            <input type="text" name="name" value="{{ $item->name }}" required>
            <input type="number" name="price" value="{{ $item->price }}" required>
            <button type="submit">Update Item</button>
        </form>
    @endsection

</x-mainlayout>
```

Update

```
*/
public function update(Request $request, Items $item)
{
    //
    if (Auth::user()->role !== 'admin' && Auth::user()->role !== 'editor') {
        return redirect('/')->with('error', 'Unauthorized action!');
    }

    $request->validate([
        'name' => 'required|string|max:255',
        'price' => 'required',
    ]);

    $item->update([
        'name' => $request->name,
        'price' => $request->price,
    ]);

    return redirect('/items')->with('success', 'Item updated successfully.');
```

Delete

```
*/  
public function destroy(Items $item)  
{  
    //  
    if (Auth::user()->role !== 'admin') {  
        return redirect('/')->with('error', 'Unauthorized action!');  
    }  
  
    $item->delete();  
    return redirect(['admin/dashboard'])->with('success', 'Item deleted successfully.');
```

Routes

```
//Admin Dashboard  
Route::get('/admin/dashboard', [AdminController::class, 'admindashboard'])->middleware(['auth', 'verified', 'admin']);  
  
// Admin CRUD  
Route::middleware(['auth','verified','admin'])->group(function () {  
    Route::get('/items/create', [ItemsController::class, 'create'])->name('items.create');  
    Route::post('/items', [ItemsController::class, 'store'])->name('items.store');  
    Route::delete('/items/{item}', [ItemsController::class, 'destroy'])->name('items.destroy');  
});  
  
Route::middleware(['admin'])->group(function () {  
    Route::get('/items/{item}/edit', [ItemsController::class, 'edit'])->name('items.edit');  
    Route::put('/items/{item}', [ItemsController::class, 'update'])->name('items.update');  
});
```