

Crear migració a la taula tasks . Ha de tenir els camps (id, name, description i completed)

Per a crear la migració de la taula tasks, usaré la comanda php artisan make:migration create_tasks, la qual es fa servir per generar un nou fitxer de migració al directori database/migrations.

```
→ laravelApp git:(main) × php artisan make:migration create_tasks
```

INFO Migration [database/migrations/2024_01_15_183226_create_tasks.php] created successfully.

Ara hem d'afegir al fitxer creat anteriorment els camps mencionats (id,name,description i completed). Els camps id i timestamps ja s'havien creat al crear el fitxer.

```
public function up(): void
{
    Schema::create( table: 'tasks', function (Blueprint $table) {
        $table->id();
        $table->string( column: 'name');
        $table->string( column: 'description');
        $table->boolean( column: 'completed');
        $table->timestamps();
    });
}
```

Per últim, hem d'executar la comanda php artisan migrate:refresh --seed, que s'utilitza per refrescar les migracions i executar les classes de seeding.

```
→ laravelApp git:(main) × php artisan migrate:refresh --seed
```

INFO Rolling back migrations.

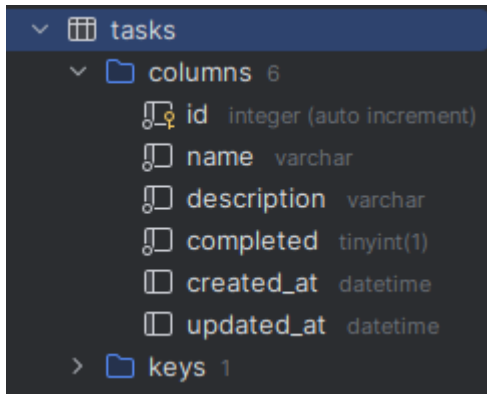
2023_12_11_162618_create_sessions_table	9ms	DONE
2019_12_14_000001_create_personal_access_tokens_table	13ms	DONE
2019_08_19_000000_create_failed_jobs_table	5ms	DONE
2014_10_12_200000_add_two_factor_columns_to_users_table	20ms	DONE
2014_10_12_100000_create_password_reset_tokens_table	7ms	DONE
2014_10_12_000000_create_users_table	8ms	DONE

INFO Running migrations.

2014_10_12_000000_create_users_table	12ms	DONE
2014_10_12_100000_create_password_reset_tokens_table	9ms	DONE
2014_10_12_200000_add_two_factor_columns_to_users_table	25ms	DONE
2019_08_19_000000_create_failed_jobs_table	19ms	DONE
2019_12_14_000001_create_personal_access_tokens_table	23ms	DONE
2023_12_11_162618_create_sessions_table	22ms	DONE
2024_01_15_183226_create_tasks	11ms	DONE

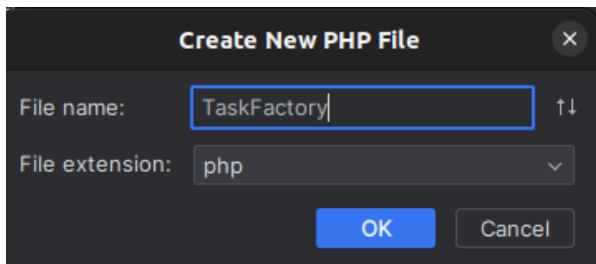
INFO Seeding database.

Aquí està el resultat final de les comandes on trobem que s'ha creat la taula tasks amb els camps indicats al fitxer de migració.



Crear factory

Creació de l'arxiu TaskFactory.php al directory /database/factories.



Afegim el contingut de l'arxiu UserFactory.php i l'adaptem per aquest.

```
namespace Database\Factories;

use App\Models\Team;
use App\Models\User;
use Illuminate\Database\Eloquent\Factories\Factory;
use Illuminate\Support\Str;
use Laravel\Jetstream\Features;

/**
 * @extends \Illuminate\Database\Eloquent\Factories\Factory<\App\Models\User>
 */
no usages new *
class TaskFactory extends Factory
{
    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    no usages new *
    public function definition(): array
    {
        return [
            'name' => $this->faker->name(),
            'description' => $this->faker->unique()->safeEmail(),
            'completed' => $this->faker->randomElement([0, 1])
        ];
    }
}
```

Crear seed

Per crear la seed usarem la següent comanda: `php artisan make:seeder TaskSeeder`, el qual genera un nou fitxer de seeder, que s'anomenarà `TaskSeeder`.

```
→ laravelApp git:(main) × php artisan make:seeder TaskSeeder

INFO Seeder [database/seeder/TaskSeeder.php] created successfully.
```

Contingut del fitxer `TaskSeeder`, afegint un contingut semblant de l'arxiu `DatabaseSeeder`.

```
namespace Database\Seeders;

use ...

no usages

class TaskSeeder extends Seeder
{
    /**
     * Run the database seeds.
     */
    public function run(): void
    {
        \App\Models\Task::factory(count: 10)->create();
    }
}
```

Crear inserts a partir del seed

Use `php artisan db:seed --class=TaskSeeder` per executar un seeder específic per a omplir la base de dades amb dades inicials sense haver de executar tots els seeders disponibles.

```
→ laravelApp git:(main) × php artisan db:seed --class=TaskSeeder

INFO Seeding database.
```

Ara si anem a la taula `tasks`, veurem que tenim files de registres amb dades cadascun. Aquestes dades, es trobaven anteriorment a la taula `users`.

	WHERE	ORDER BY					
	id	name	description	completed	created_at	updated_at	
1	1	Edwina Daniel V	jordyn.frami@exam...	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
2	2	Cayla Pfeffer	yhaley@example.com	1	2024-01-15 18:41:...	2024-01-15 18:41:...	
3	3	Maggie Ziemann	jalyn12@example.c...	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
4	4	Dante Williamson	blaze25@example.c...	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
5	5	Prof. Porter Beier	lorenza38@example...	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
6	6	Vita Gutkowski Sr.	domenica.stanton@...	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
7	7	Dr. Emmanuelle Ko...	presley.moore@exa...	1	2024-01-15 18:41:...	2024-01-15 18:41:...	
8	8	Dr. Devan Brown	rstark@example.com	0	2024-01-15 18:41:...	2024-01-15 18:41:...	
9	9	Mrs. Domenica Wei...	mayra31@example.c...	1	2024-01-15 18:41:...	2024-01-15 18:41:...	
10	10	Selina Little	kwolf@example.net	0	2024-01-15 18:41:...	2024-01-15 18:41:...	

Crear controlador de tasks

Per crear el controlador de tasks usem la comanda php artisan make:controller TaskController

```
→ laravelApp git:(main) ✕ php artisan make:controller TaskController
```

```
INFO Controller [app/Http/Controllers/TaskController.php] created successfully.
```

Contingut dels fitxers TaskController.php i routes.php:

```
namespace App\Http\Controllers;

use App\Models\Task;

1 usage  👤 Elvöltios
class TaskController extends Controller
{
    1 usage  👤 Elvöltios
    function index(){
        return view('tasks',[
            'tasks' => Task::all()
        ]);
    }
}
```

Crear model de tasks

Per crear el model de tasks usare la comanda php artisan make:model Task

```
→ laravelApp git:(main) × php artisan make:model Task

INFO Model [app/Models/Task.php] created successfully.
```

Contingut fitxer Task.php

```
namespace App\Models;

> use ...

no usages
class Task extends Model
{
    use HasFactory;

    no usages
    protected $fillable=[
        'name',
        'description',
        'completed',
    ];
}
```

Crear ruta a routes/web.php i afegir la nova ruta al navegador al fitxer resources/views/components/layout.blade.php

Afegirem a la última línia del fitxer web.php la nova ruta anomenada tasks.

```
Route::get( uri: '/', [UserController::class, 'index'] );

Route::get( uri: '/users', [UserController::class, 'index'] );

Route::get( uri: '/contact', [PagesController::class, 'contact'] );

Route::get( uri: '/about', [PagesController::class, 'about'] );

Route::get( uri: '/tasks', [\App\Http\Controllers\TaskController::class, 'tasks'] );
```

També afegim la nova ruta al fitxer layout.blade.php

```
<a href="/about" class="text-gray-300 hover:bg-gray-700 hover:text-white rounded-md px-3 py-2 text-sm font-medium">About</a>
<a href="/tasks" class="text-gray-300 hover:bg-gray-700 hover:text-white rounded-md px-3 py-2 text-sm font-medium">Tasques</a>
</div>
```

Crear la vista tasks.blade.php

Contingut del fitxer tasks.blade.php. El fitxer és semblant a users.blade.php, però canviem els valors de l'element foreach pels camps de la taula tasks


```
<x-layout>
<div class="bg-gray-800 pb-32">

    <div class="py-10">
        <div class="mx-auto max-w-7xl px-4 sm:px-6 lg:px-8">
            <h1 class="text-3xl font-bold tracking-tight text-white">TASQUES</h1>
        </div>
    </div>
</div>

<main class="-mt-32">
    <div class="mx-auto max-w-7xl px-4 pb-12 sm:px-6 lg:px-8">
        <div class="rounded-lg bg-white px-5 py-6 shadow sm:px-6">

            <div class="px-4 sm:px-6 lg:px-8">
                <div class="mt-8 flow-root">
                    <div class="-mx-4 -my-2 overflow-x-auto sm:-mx-6 lg:-mx-8">
                        <div class="inline-block min-w-full py-2 align-middle sm:px-6 lg:px-8">
                            <table class="min-w-full divide-y divide-gray-300">
                                <thead>
                                    <tr>
                                        <th scope="col" class="py-3.5 pl-4 pr-3 text-left text-sm font-semibold text-gray-900 sm:pl-3">Id</th>
                                        <th scope="col" class="px-3 py-3.5 text-left text-sm font-semibold text-gray-900">Nom</th>
                                        <th scope="col" class="px-3 py-3.5 text-left text-sm font-semibold text-gray-900">Descripció</th>
                                        <th scope="col" class="px-3 py-3.5 text-left text-sm font-semibold text-gray-900">Completada</th>
                                    </tr>
                                </thead>
                                <tbody class="bg-white">
                                    @foreach($tasks as $task)
                                        <tr class="even:bg-gray-50">
                                            <td class="whitespace-nowrap py-4 pl-4 pr-3 text-sm font-medium text-gray-900 sm:pl-3">{{ $task->id }}</td>
                                            <td class="whitespace-nowrap px-3 py-4 text-sm text-gray-500">{{ $task->name }}</td>
                                            <td class="whitespace-nowrap px-3 py-4 text-sm text-gray-500">{{ $task->description }}</td>
                                            <td class="whitespace-nowrap px-3 py-4 text-sm text-gray-500">{{ $task->completed }}</td>
                                        </tr>
                                    @endforeach
                                </tbody>
                            </table>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</main>
</x-layout>
```

Resultat de la vista tasks.blade.php





Usuaris

Contact

About

Tasques



TASQUES

Id	Nom	Descripció	Completada
1	Marcelina Gusikowski Jr.	martin.hahn@example.org	1
2	Thaddeus Stark	shana.hansen@example.com	0
3	Dr. Irma Olson	kamren09@example.com	0
4	Ezekiel Ebert	rocio22@example.net	1
5	Matt Nicolas MD	gaylord.schimmel@example.org	0
6	Moshe Gaylord	nosinski@example.net	0
7	Lauren Kuhlman	volkman.jane@example.net	0
8	Dr. Myrtis Padberg	mckenzie.lily@example.com	1
9	Miss Alicia Feeney MD	labadie.aidan@example.com	1
10	Miss Marjorie Bauch	camille34@example.com	0