



2020/11/10

Laravel documentation

- 1) Migration
- 2) Seeder
- 3) Eloquent
- 4) Factory

I.	Migration	2
1.	Migration overview:	2
2.	Manipulations performed:	2
3.	What went wrong:	4
II.	Seeder	5
4.	Seeder overview:	5
5.	Manipulations performed:	5
6.	What went wrong:	6
III.	Eloquent	6
7.	Eloquent overview:	6
8.	Manipulations performed:	6
9.	What went wrong:	6
IV.	Factory	7
10.	Factory overview:	7
11.	Manipulations performed:	7
12.	What went wrong:	7

I. Migration

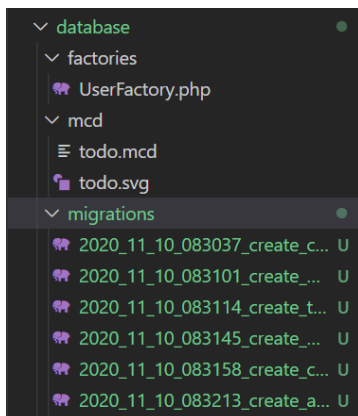
1. Migration overview:

The first advantage of Migration is to create database in a Laravel script rather than in PhpMyAdmin or in a SQL file.

The second advantage is to be able to control versioning of our database and make easier collective work.

2. Manipulations performed:

First of all, we have to go to migration files emplacement, in database/migration.



We have now to create one file by table with the following command:

➔ `php artisan make:migration create_tableName_table`

```
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_comment_table
Created Migration: 2020_11_10_083037_create_comment_table
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_user_table
Created Migration: 2020_11_10_083101_create_user_table
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_task_table
Created Migration: 2020_11_10_083114_create_task_table
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_board_table
Created Migration: 2020_11_10_083145_create_board_table
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_category_table
Created Migration: 2020_11_10_083158_create_category_table
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:migration create_attachment_table
Created Migration: 2020_11_10_083213_create_attachment_table
```

In these created files we can add our tables.

```

    */
    public function up()
    {
        Schema::create('user', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('email')->unique();
            $table->timestamp('email_verified_at')->nullable();
            $table->string('password');
            $table->rememberToken();
            $table->timestamps();
        });
    }

```

Before to migrate our new tables, we have to create a new database in php MyAdmin and modify the following line with the database name in .env file:

➔ DB_DATABASE=databaseName

```

. .env
1  APP_NAME=Laravel
2  APP_ENV=local
3  APP_KEY=base64:Ats12jMTXFQHSfSnZImLJm5IzDPJxrMsXy4R20+WTwc=
4  APP_DEBUG=true
5  APP_URL=http://localhost
6
7  LOG_CHANNEL=stack
8  LOG_LEVEL=debug
9
10 DB_CONNECTION=mysql
11 DB_HOST=127.0.0.1
12 DB_PORT=3306
13 DB_DATABASE=projectLaravel2021Cours
14 DB_USERNAME=root
15 DB_PASSWORD=
16

```

We are now ready to migrate our tables using this command:

➔ `php artisan migrate`

```
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan migrate
Migration table created successfully.
Migrating: 2020_11_10_083037_create_comment_table
Migrated: 2020_11_10_083037_create_comment_table (141.88ms)
Migrating: 2020_11_10_083101_create_user_table
Migrated: 2020_11_10_083101_create_user_table (629.33ms)
Migrating: 2020_11_10_083114_create_task_table
Migrated: 2020_11_10_083114_create_task_table (140.67ms)
Migrating: 2020_11_10_083145_create_board_table
Migrated: 2020_11_10_083145_create_board_table (139.71ms)
Migrating: 2020_11_10_083158_create_category_table
Migrated: 2020_11_10_083158_create_category_table (182.62ms)
Migrating: 2020_11_10_083213_create_attachment_table
Migrated: 2020_11_10_083213_create_attachment_table (212.77ms)
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> 
```

The result in the database:

Table	Action	Lignes	Type	Interclassement	Taille	Perte
<input type="checkbox"/> attachment	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> board	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> category	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> comment	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> migrations	★ Parcourir Structure Rechercher Insérer Vider Supprimer	6	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> task	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	16,0 kio	-
<input type="checkbox"/> user	★ Parcourir Structure Rechercher Insérer Vider Supprimer	0	InnoDB	utf8mb4_unicode_ci	32,0 kio	-
7 tables	Somme	6	InnoDB	utf8mb4_general_ci	128,0 kio	0 o

3. *What went wrong:*

➔ Nothing particular.

II. Seeder

4. Seeder overview:

Seeders files allow to add initial and test data in the database.

5. Manipulations performed:

We can accede to seeders in going to database/seeders.

The second step is to create new files:

➔ `Php artisan make:seeder nameSeedTableSeeder`

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

Testez le nouveau système multiplateforme PowerShell https://aka.ms/pscore6

PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan make:seeder CategoryTableSeeder
  
```

Dump-Autoload generates autoload of the project:

➔ `composer dump-autoload`

```

Class Tests\Feature\Relations\AttachmentTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/AttachmentTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\BoardTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/BoardTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\BoardUserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/BoardUserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\CategoryTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/CategoryTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\CommentTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/CommentTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\TaskTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/TaskTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\TaskUserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/TaskUserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\UserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/UserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Feature\Relations\UserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Feature/relations/UserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\AttachmentTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/AttachmentTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\BoardTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/BoardTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\BoardUserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/BoardUserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\CategoryTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/CategoryTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\CommentTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/CommentTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\TaskTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/TaskTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\TaskUserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/TaskUserTest.php does not comply with psr-4 autoloading standard. Skipping.
Class Tests\Unit\Database\UserTest located in C:/Users/Clément/Desktop/dev/ynov/projectLaravel2021Cours/tests/Unit/database/UserTest.php does not comply with psr-4 autoloading standard. Skipping.
> illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Discovered Package: facade/ignition
Discovered Package: fidmiller/psrvy
Discovered Package: fruitcake/laravel-cors
Discovered Package: laravel/tinker
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Package manifest generated successfully.
Generated optimized autoload files containing 4953 classes
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours>
  
```

We can now add data to database:

➔ `Php artisan db:seed`

```
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours> php artisan db:seed
Seeding: Database\Seeders\AttachmentTableSeeder
Seeded: Database\Seeders\AttachmentTableSeeder (43.05ms)
Database seeding completed successfully.
PS C:\Users\Clément\Desktop\dev\ynov\projectLaravel2021Cours>
```

				id	file	filename	size	type	created_at	updated_at
<input type="checkbox"/>	Éditer	Copier	Supprimer	4	file0	file0name	12	document	NULL	NULL
<input type="checkbox"/>	Éditer	Copier	Supprimer	5	file1	file1name	12	document	NULL	NULL
<input type="checkbox"/>	Éditer	Copier	Supprimer	6	file2	file2name	12	document	NULL	NULL

6. *What went wrong:*

➔ I started to create seeders files manually without the php artisan command, so it does not work ... Excepted that, everything was OK.

III. *Eloquent*

7. *Eloquent overview:*

8. *Manipulations performed:*

9. *What went wrong:*

IV. Factory

10. Factory overview:

11. Manipulations performed:

12. What went wrong: