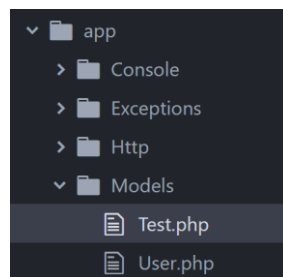


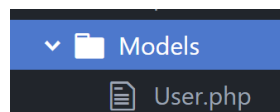
Temat: Model

Utworzyć model o nazwie: Test

```
C:\xampp\htdocs\git\cdv>php artisan make:model Test
Model created successfully.
```

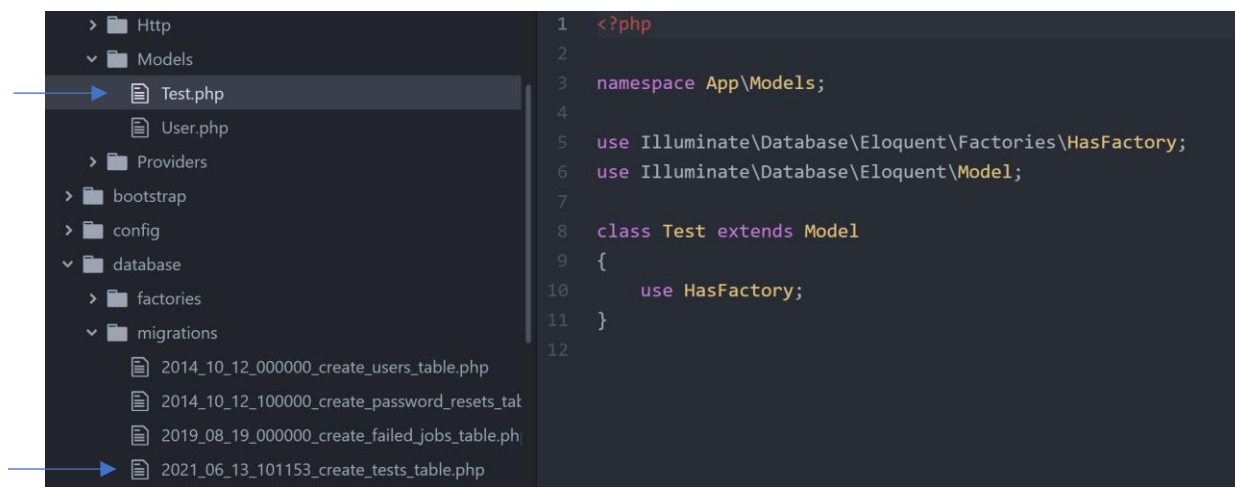


Usuń model Test



Utworzyć model Test z opcją m

```
C:\xampp\htdocs\git\cdv\2020_2021\2021L\cdv_nst>php artisan make:model -m Test
Model created successfully.
Created Migration: 2021_06_26_062154_create_tests_table
```



```
class CreateTestsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('tests', function (Blueprint $table) {
            $table->id();
            $table->timestamps();
        });
    }
}
```

Zmodyfikuj migrację:

```
class CreateTestsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('tests', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('surname');
            $table->timestamps();
        });
    }
}
```

```
C:\xampp\htdocs\git\cdv>php artisan migrate:fresh
Dropped all tables successfully.
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (286.53ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (89.30ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated: 2019_08_19_000000_create_failed_jobs_table (74.70ms)
Migrating: 2021_06_13_101153_create_tests_table
Migrated: 2021_06_13_101153_create_tests_table (48.12ms)
```

```
PS C:\xampp\htdocs\git\wsb\test\modelTest> php artisan migrate:fresh
```

```
Dropping all tables ..... 176ms DONE

INFO Preparing database.

Creating migration table ..... 32ms DONE

INFO Running migrations.

2014_10_12_000000_create_users_table ..... 75ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 141ms DONE
2014_10_12_200000_add_two_factor_columns_to_users_table ..... 27ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 73ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 108ms DONE
2023_11_14_095143_create_sessions_table ..... 194ms DONE
2023_11_14_095608_create_tests_table ..... 32ms DONE
```

phpMyAdmin

Ostatnie | Ulubione

- Nowa
- cdv
- cdv1
 - Nowy
 - failed_jobs
 - migrations
 - password_resets
 - tests
 - Indeksy
 - Kolumny
 - users

Serwer: 127.0.0.1 » Baza danych: cdv1 » Tabela: tests

Przeglądaj | Struktura | SQL | Szukaj | Wstaw | Eksport | Import | Uprawnienia | Operacje

Struktura tabeli | Widok relacyjny

#	Nazwa	Typ	Metoda porównywania napisów	Atrybuty	Null	Ustawienia domyślne	Komentarze	Dodatkowo
<input type="checkbox"/>	1 id	bigint(20)		UNSIGNED	Nie	Brak		AUTO_INCREMENT
<input type="checkbox"/>	2 name	varchar(255)	utf8mb4_unicode_ci		Nie	Brak		
<input type="checkbox"/>	3 surname	varchar(255)	utf8mb4_unicode_ci		Nie	Brak		
<input type="checkbox"/>	4 created_at	timestamp			Tak	NULL		
<input type="checkbox"/>	5 updated_at	timestamp			Tak	NULL		

☐ Zaznacz wszystko Z zaznaczonymi: Przeglądaj Zmień Usuń Podstawowy Jednoznaczny
☐ Usuń z centralnych kolumn

Cofnięcie ostatniej zmiany w bazie danych:

```
C:\xampp\htdocs\git\cdv>php artisan migrate:rollback --step=1
Rolling back: 2021_06_13_101153_create_tests_table
Rolled back: 2021_06_13_101153_create_tests_table (20.76ms)
```

cdv1

- Nowy
- failed_jobs
- migrations
- password_resets
- users

Zmodyfikuj metodę up dla migracji tabeli Test:

```
public function up()
{
    Schema::create('tests', function (Blueprint $table) {
        $table->id();
        $table->string('name', 30);
        $table->string('surname', 50);
        $table->timestamps();
    });
}
```

```
C:\xampp\htdocs\git\cdv>php artisan migrate:fresh
Dropped all tables successfully.
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (74.40ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (60.98ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated: 2019_08_19_000000_create_failed_jobs_table (44.19ms)
Migrating: 2021_06_13_101153_create_tests_table
Migrated: 2021_06_13_101153_create_tests_table (30.11ms)
```

phpMyAdmin

Ostatnie | Ulubione

Nowa

cdv

cdv1

Nowy

failed_jobs

migrations

password_resets

tests

users

Serwer: 127.0.0.1 » Baza danych: cdv1 » Tabela: tests

Przeglądaj | Struktura | SQL | Szukaj | Wstaw | Eksport | Import | Uprawnienia | Opera

Struktura tabeli | Widok relacyjny

#	Nazwa	Typ	Metoda porównywania napisów	Atrybuty	Null	Ustawienia domyślne	Komentarze	Dodatkowo
<input type="checkbox"/> 1	id	bigint(20)		UNSIGNED	Nie	Brak		AUTO_INCREMENT
<input type="checkbox"/> 2	name	varchar(30)	utf8mb4_unicode_ci		Nie	Brak		
<input type="checkbox"/> 3	surname	varchar(50)	utf8mb4_unicode_ci		Nie	Brak		
<input type="checkbox"/> 4	created_at	timestamp			Tak	NULL		
<input type="checkbox"/> 5	updated_at	timestamp			Tak	NULL		

↑ ☐ Zaznacz wszystko Z zaznaczonymi: Przeglądaj Zmień Usuń Podstawowy Jednoznaczny

Dodaj w modelu **Test**:

```
namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Auth;
use App\Models\Test;
```

Zmodyfikuj metodę **index** w kontrolerze **HomeController**:

```
public function index()
{

    $name = Auth::user()->name;

    $data = [
        $surname = 'Pawlak'
    ];

    $test = new Test();
    $test->name = $name;
    $test->surname = 'Nowak';
    $test->save();

    return view('home', $data);
}
```
















Zarejestruj użytkownika i zaloguj się, każde zalogowanie na stronę spowoduje dodanie nowego rekordu do tabeli tests:

SELECT * FROM `tests`

☐ Profilowanie [Edytuj w linii] [Edytuj] [Wyjaśnij SQL] [Utwórz kod PHP] [Odśwież]

☐ Pokaż wszystko | Liczba wierszy: 25 Filtrowanie wierszy: Przeszukaj tę tabelę

Opcje

				id	name	surname	created_at	updated_at
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	1	Krystian	Nowak	2021-06-13 10:54:51	2021-06-13 10:54:51
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	2	Krystian	Nowak	2021-06-13 11:01:15	2021-06-13 11:01:15
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	3	jan@o2.pl	Nowak	2021-06-13 11:02:29	2021-06-13 11:02:29
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	4	jan@o2.pl	Nowak	2021-06-13 11:03:23	2021-06-13 11:03:23
<input type="checkbox"/>	 Edytuj	 Kopiuj	 Usuń	5	Anna	Nowak	2021-06-13 11:05:01	2021-06-13 11:05:01

Zmodyfikuj metodę index w HomeController:

```
public function index()
{

    $name = Auth::user()->name;

    $data = [
        $surname = 'Pawlak'
    ];

    $test = Test::find(1);
    $test->name = $name;
    $test->surname = 'Pawlicki';
    $test->save();

    return view('home', $data);
}
```

Zmodyfikuj metodę index w HomeController:

```
public function index()
{

    $name = Auth::user()->name;

    $data = [
        $surname = 'Pawlak'
    ];

    dd(Test::get());

    return view('home', $data);
}
```

```
Illuminate\Database\Eloquent\Collection {#1245 ▼
  #items: array:6 [▼
    0 => App\Models\Test {#1246 ▶}
    1 => App\Models\Test {#1247 ▶}
    2 => App\Models\Test {#1248 ▶}
    3 => App\Models\Test {#1249 ▶}
    4 => App\Models\Test {#1250 ▶}
    5 => App\Models\Test {#1251 ▶}
  ]
}
```

```
Illuminate\Database\Eloquent\Collection {#1245 ▼
  #items: array:6 [▼
    0 => App\Models\Test {#1246 ▼
      #connection: "mysql"
      #table: "tests"
      #primaryKey: "id"
      #keyType: "int"
      +incrementing: true
      #with: []
      #withCount: []
      +preventsLazyLoading: false
      #perPage: 15
      +exists: true
      +wasRecentlyCreated: false
      #attributes: array:5 [▼
        "id" => 1
        "name" => "Jan"
        "surname" => "Pawlicki"
        "created_at" => "2021-06-13 10:54:51"
        "updated_at" => "2021-06-13 11:36:04"
      ]
      #original: array:5 [▼
        "id" => 1
        "name" => "Jan"
        "surname" => "Pawlicki"
        "created_at" => "2021-06-13 10:54:51"
        "updated_at" => "2021-06-13 11:36:04"
      ]
    }
  ]
}
```

Zmodyfikuj metodę index w HomeController:

```
public function index()
{

    $name = Auth::user()->name;

    return Test::select(['name', 'surname'])->get();

}
```

Zaloguj się na dowolnego użytkownika:

```
[{"name": "Jan", "surname": "Pawlicki"}, {"name": "Krystian", "surname": "Nowak"}, {"name": "jan@o2.pl", "surname": "Nowak"}, {"name": "Jan", "surname": "Pawlicki"}, {"name": "Anna", "surname": "Nowak"}, {"name": "Jan", "surname": "Kowalski"}]
```

Zmodyfikuj metodę index w HomeController:

```
public function index()
{

    $data = Test::select(['name', 'surname'])->get();

    return view('test', ['data'=>$data]);

}
```

Dodaj nowy widok test:

```
<h3>Dane pobrane z bazy</h3>
<ul>
    @foreach($data as $user)
        <li>{{ $user['name'] }}
            {{ $user['surname'] }}</li>
    @endforeach
</ul>
```

Dane pobrane z bazy

- Jan Pawlicki
- Krystian Nowak
- jan@o2.pl Nowak
- Jan Pawlicki
- Anna Nowak
- Jan Kowalski

Zmodyfikuj metodę index w HomeController:

```
public function index()
{

    $data = Test::select(['*'])
    ->where('surname', 'Nowak')
    ->get();

    return view('test', ['data'=>$data]);

}
```

Dodaj nowy widok test:

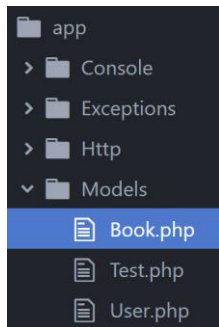
```
<h3>Dane pobrane z bazy</h3>
<ul>
    @foreach($data as $user)
        <li>
            UserId: {{ $user['id'] }}, imię i nazwisko:
            {{ $user['name'] }}
            {{ $user['surname'] }},
            data utworzenia: {{ $user['created_at'] }}
        </li>
    @endforeach
</ul>
```

Dane pobrane z bazy

- UserId: 2, imię i nazwisko: Krystian Nowak, data utworzenia: 2021-06-13 11:01:15
- UserId: 3, imię i nazwisko: jan@o2.pl Nowak, data utworzenia: 2021-06-13 11:02:29
- UserId: 5, imię i nazwisko: Anna Nowak, data utworzenia: 2021-06-13 11:05:01

Utwórz nowy model o nazwie: Book

```
C:\xampp\htdocs\git\cdv>php artisan make:model Book -m
Model created successfully.
Created Migration: 2021_06_13_125237_create_books_table
```



Zmodyfikuj migrację books:

```
class CreateBooksTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('books', function (Blueprint $table) {
            $table->id();
            $table->string('title', 70);
            $table->year('year');
            $table->double('price', 8, 2);
            $table->tinyInteger('pages');
            $table->string('publication_place', 30);
            $table->timestamps();
        });
    }
}
```

Zmodyfikuj model o nazwie Book:

```
namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Book extends Model
{
    use HasFactory;

    protected $fillable = [
        'title', 'year', 'price', 'pages', 'publication_place'
    ];
}
```

```
C:\xampp\htdocs\git\cdv>php artisan migrate:fresh
Dropped all tables successfully.
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (83.01ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (89.27ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated: 2019_08_19_000000_create_failed_jobs_table (90.04ms)
Migrating: 2021_06_13_101153_create_tests_table
Migrated: 2021_06_13_101153_create_tests_table (56.46ms)
Migrating: 2021_06_13_125237_create_books_table
Migrated: 2021_06_13_125237_create_books_table (74.48ms)
```

Utworz kontroler o nazwie BookController:

```
C:\xampp\htdocs\git\cdv>php artisan make:controller BookController
Controller created successfully.
```

Utwórz routing w pliku web.php:

```
Route::get('books', [App\Http\Controllers\BookController::class, 'index']);
```

Zmodyfikuj kontroler o nazwie BookController:

```
namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Book;

class BookController extends Controller
{
    public function index(Book $book)
    {
        $booksList = $book->all();
        return view('book.list', ['booksList' => $booksList]);
    }
}
```

Utwórz seed dla tabeli books:

```
C:\xampp\htdocs\git\cdv>php artisan make:seeder BookSeeder
Seeder created successfully.
```

Zmodyfikuj seed BookSeeder:

```
class BookSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        DB::table('books')->insert([
            'title' => 'Ogniem i mieczem',
            'year' => 1994,
            'price' => 80.95,
            'pages' => 100,
            'publication_place' => 'Poznań'
        ]);

        DB::table('books')->insert([
            'title' => 'Ogniem i mieczem',
            'year' => 1994,
            'price' => 100.95,
            'pages' => 100,
            'publication_place' => 'Poznań'
        ]);
    }
}
```

Dodaj w BookSeeder:

```
use Illuminate\Database\Seeder;
use DB;
```

Wywołaj seed o nazwie BookSeeder:

```
C:\xampp\htdocs\git\cdv>php artisan db:seed --class=BookSeeder
Database seeding completed successfully.
```

id	title	year	price	pages	publication_place	created_at	updated_at
1	Ogniem i mieczem	1994	80.95	100	Poznań	NULL	NULL
2	Ogniem i mieczem	1994	100.95	100	Poznań	NULL	NULL

Dodaj widok o nazwie: list w katalogu book:

```
<h3>Lista książek</h3>
<ul>
  @foreach($booksList as $book)
    <li>
      Tytuł: {{ $book['title'] }}
    </li>
  @endforeach
</ul>
```

Lista książek

- Tytuł: Ogniem i mieczem
- Tytuł: Ogniem i mieczem