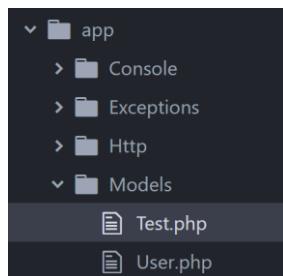


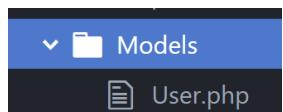
Temat: Model

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\2021\cdv_nst>php artisan make:model -m Test  
Model created successfully.  
Created Migration: 2021_06_26_062154_create_tests_table
```

A screenshot showing the creation of a migration. On the left, a file explorer shows the project structure with 'Test.php' selected. On the right, a code editor displays the generated migration code:

```
1 <?php  
2  
3 namespace App\Models;  
4  
5 use Illuminate\Database\Eloquent\Factories\HasFactory;  
6 use Illuminate\Database\Eloquent\Model;  
7  
8 class Test extends Model  
9 {  
10     use HasFactory;  
11 }  
12
```

The migration file '2021_06_26_062154_create_tests_table.php' is also shown in the file explorer.

```
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

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

Ostatnie Ulubione

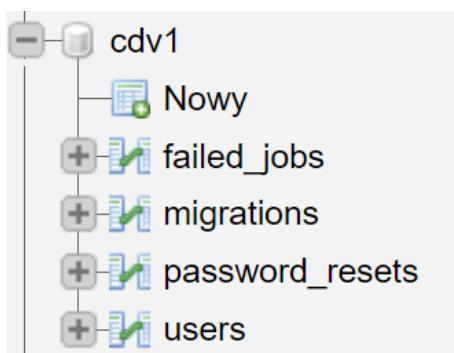
Struktura tabeli Widok relacyjny

| # | Nazwa | Typ | Metoda porównywania napisów | Atrybuty | Null | Ustawienia domyślne | Komentarze | Dodatkowo |
|---|-------------------|--------------|-----------------------------|----------|------|---------------------|------------|----------------|
| 1 | id | bigint(20) | | UNSIGNED | Nie | Brak | | AUTO_INCREMENT |
| 2 | name | varchar(255) | utf8mb4_unicode_ci | | Nie | Brak | | |
| 3 | surname | varchar(255) | utf8mb4_unicode_ci | | Nie | Brak | | |
| 4 | created_at | timestamp | | | Tak | NULL | | |
| 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)
```



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)
```

The screenshot shows the phpMyAdmin interface for a database named 'cdv1'. On the left, there's a tree view of databases: 'Nowa', 'cdv', and 'cdv1'. Under 'cdv1', there are tables: 'Nowy', 'failed_jobs', 'migrations', 'password_resets', 'tests', and 'users'. The current view is on the 'tests' table. At the top, there are tabs for 'Przeglądaj', 'Struktura', 'SQL', 'Szukaj', 'Wstaw', 'Eksport', 'Import', 'Uprawnienia', and 'Opera'. Below that, there are two tabs: 'Struktura tabeli' (selected) and 'Widok relacyjny'. The main area displays the structure of the 'tests' table:

| # | 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 | | |

At the bottom, there are buttons for 'Zaznacz wszystko', 'Przeglądaj', 'Zmień', 'Usuń', 'Podstawowy', and '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 | Sort

↳ Opcje

| | Edytuj | Kopiuj | Usuń | id | name | surname | created_at | updated_at |
|--------------------------|--------|--------|------|----|-----------|---------|---------------------|---------------------|
| <input type="checkbox"/> | | | | 1 | Krystian | Nowak | 2021-06-13 10:54:51 | 2021-06-13 10:54:51 |
| <input type="checkbox"/> | | | | 2 | Krystian | Nowak | 2021-06-13 11:01:15 | 2021-06-13 11:01:15 |
| <input type="checkbox"/> | | | | 3 | jan@o2.pl | Nowak | 2021-06-13 11:02:29 | 2021-06-13 11:02:29 |
| <input type="checkbox"/> | | | | 4 | jan@o2.pl | Nowak | 2021-06-13 11:03:23 | 2021-06-13 11:03:23 |
| <input type="checkbox"/> | | | | 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 = 'Pawlak';
    $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\Mode...\\Test {#1246 ▶}
    1 => App\Mode...\\Test {#1247 ▶}
    2 => App\Mode...\\Test {#1248 ▶}
    3 => App\Mode...\\Test {#1249 ▶}
    4 => App\Mode...\\Test {#1250 ▶}
    5 => App\Mode...\\Test {#1251 ▶}
  ]
}
```

```
Illuminate\Database\Eloquent\Collection {#1245 ▼
  #items: array:6 [▼
    0 => App\Mode...\\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" => "Pawlak"
        "created_at" => "2021-06-13 10:54:51"
        "updated_at" => "2021-06-13 11:36:04"
      ]
      #original: array:5 [▼
        "id" => 1
        "name" => "Jan"
        "surname" => "Pawlak"
        "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'] }}<br>
        {{ $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:

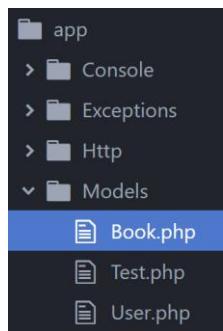
```
<h3>Dane pobrane z bazy</h3>
<ul>
    @foreach($data as $user)
        <li>
            UserId: {{ $user['id'] }}, imię i nazwisko:
            {{ $user['name'] }}
            {{ $user['surname'] }},
            data utworzenia: {{ $user['created_at'] }}
        </li>
    @endforeach
</ul>
```

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