UNIWERSYTET W BIAŁYMSTOKU WYDZIAŁ EKONOMICZNO-INFORMATYCZNY W WILNIE



Sprawozdanie 2

Laravel REST API

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Programowanie we frameworkach

Informatyka, 3 rok

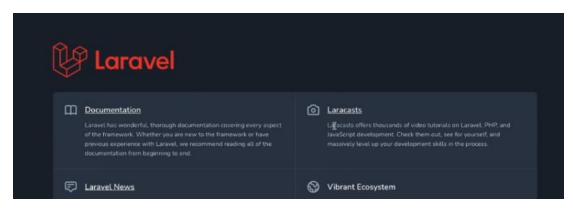
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Setting Up.

Najpierw tworzę nowy projekt z kompozytorem.

Następnie włączam aplikację.

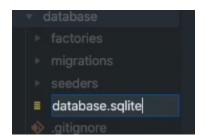
Tak wygląda strona internetowa.



SQLite Setup.

```
DB_CONNECTION=sqlite
DB_HOST=127.0.0.1
DB_PORT=3306
```

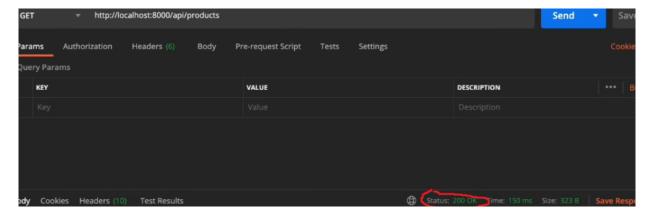
Następnie tworzę plik bazy danych.



Route api.php.

```
Route::get('/products', function(){
    return 'products';
});
```

Po dodaniu kodu w api.php, tak wygląda nasz Sqlite. Widzimy, że to działa, bo dostajemy Status: 200 OK.



Teraz tworzę modele dla naszych produktów.

```
php artisan make:model Product --migration
```

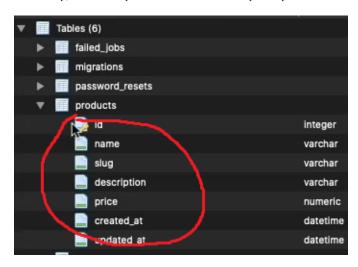
Następnie dodaję tables.

```
public function up()
{
    Schema::create('products', function (Blueprint $table) {
        $table->id();
        $table->string('name');
        $table->string('slug');
        $table->string('description')->nullable();
        $table->decimal('price', 5, 2);
        $table->timestamps();
}
```

Teraz migracje są gotowe do uruchomienia.

```
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (1.98ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (1.56ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
```

Widzimy, że zostały one dodane do bazy danych.

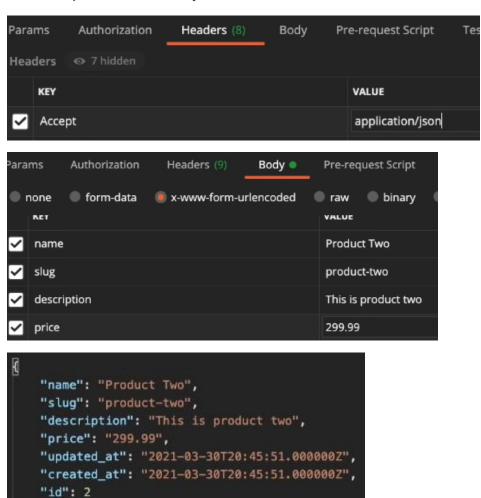


Model.

```
"name": "Product One",
"slug": "product-one",
"description": "This is product one",
"price": "99.99",
"updated_at": "2021-03-30T20:39:00.0000000Z",
"created_at": "2021-03-30T20 39:00.0000000Z",
"id": 1
```

	id	name	slug	description	price
		Filter	Filter	Filter	Filter
1	1	Product One	product-one	This is product one	99.99

Tworzenie produktów i walidacja.



Update Product.

Updated cenę, aby sprawdzić, czy to działa.

```
{
    "id": 2,
    "name": "Product Two",
    "slug": "product-two",
    "description": "This is product two",
    "price": "199.99",
    "created_at": "2021-03-30T20:45:51.0000002",
    "updated_at": "2021-03-30T20:51:36f 00000002"
```

Delete Product.

```
public function destroy($id)
{
    return Product::destroy($id);
}
```

Produkt 3 został usunięty.

```
DELETE v http://localhost:8000/api/product/3
```

Search Products.

```
/**
 * Search for a name
 *
 * @param str $name
 * @return \Illuminate\Http\Response
 */
public function search($name)
{
    return Product::where('name', 'like', '%'.$name.'%')->get();
}
```

Stwarzam Route.

```
Route::<mark>resou</mark>rce('products', ProductController::class);
Route::get('/products/search/{name}', [ProductController::class,
'search']);
```

Teraz wpisuję wyszukiwanie "iph".

```
GET ▼ http://localhost:8000/api/products/search/iph
```

Search pracuje dobrze (Znalazł nazwę iPhone na podstawie samego "Iph").

```
"id": 4,
    "name": "iPhone 12",
    "slug": "iphone-12"
    "description": "This is the iPhone 12",
    "price": "599.99",
    "created_at": "2021-03-30T20:55:18.000000Z",
```

Auth Controller.

```
php artisan make:controller AuthController
```

Zarejestruj użytkownika i uzyskaj token.

Token.

```
$token = $user->createToken('myapptoken')->plainTextToken;

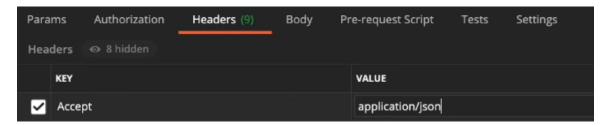
$response = [
    'user' => $user,
    'token' => $token
];

return response($response, 201);
```

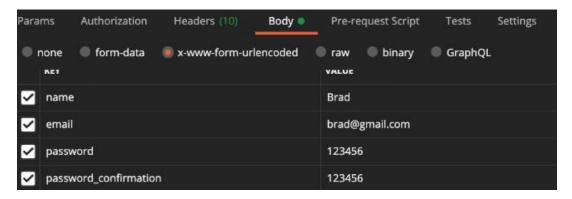
Register.

```
Route::post('/register', [AuthController::class, 'register']);
```

Body.

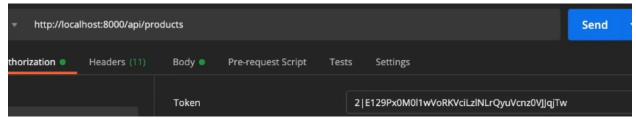


Pre-Request Script.



Po rejestracji dostałem token

```
"token": "2|E129Px0M0l1wYoRKVciLzlNLrQyuVcnz0VJJqjTw"
```



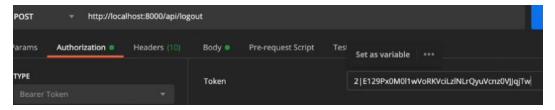
Po kliknięciu Send

Logout i Delete.

```
public function logout(Request $request) {
    auth()->user()->tokens()->delete();

    return [
        'message' => 'Logged out'
    ];
}
```





```
[]
    "message": "Logged out"
]
```

Login User i Get Token.

Login Spracowal.

```
"token": "3|L5y41TiyljWeDgSAybTdaGwMSFBnp8d1SRUDPupG"
```

Link do kodu:

https://drive.google.com/drive/folders/11AYt8BJhwNMv0Rmr8w4TcAdwtAe8675p