



Laravel resource controllers CRUD

PHP WebDevelopment 2019

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**update
resource**

update resource

Documentation

```
$flight = App\Flight::find(1);
```

find a record from database

```
$flight->name = 'New Flight Name';
```

*change a property value **/\$request->input_name/***

```
$flight->save();
```

update the record in the database



delete resource

delete resource

Documentation

```
$flight = App\Flight::find(1);
```

find a record from database

```
$flight->delete();
```

delete the record in the database

IMPORTANT When targeting an end-point that will delete a record, also use a form with a hidden token field.



create vs. save

create vs. save

```
$hall = App\Hall::create([  
    'name' => $request->hall_name  
]);
```

[Documentation](#) create

```
$hall = new Hall();  
$hall->name = $request->hall_name;  
$hall->save();
```

[Documentation](#) save

[Documentation](#) other creation methods

[Documentation](#) mass updates and examining attributes changes

Task 1

CRUD

- users /with roles/
- HW levels /add level to a selected course/



CRUD related resources

CRUD related resources - eager loading

```
$levels = App\Level::all();  
  
foreach ($levels as $level) {  
    echo $level->course->course_name;  
}
```

→ This loop will execute 1 **query** to retrieve all of the levels on the table,

then another **query** for each level to retrieve the **course**.

So, if we have **25 levels**, this loop would run **26 queries**:

1 for the levels, and **25 additional** queries to retrieve the course each level belongs to.

CRUD related resources - eager loading

Use **eager loading** to reduce this operation to **just 2 queries**.

When querying, specify which relationships should be eager loaded.



```
$levels = App\Level::with('courses')->get();
```

For this operation, only two queries will be executed



```
select * from books  
  
select * from authors where id in (1, 2, 3, 4, 5, ...)
```



Test Data

To easily create dummy database data for your project development, you need -

- Model factories
- Faker
- Database Seeder



Factories

Test data - Factories

```
php artisan make:factory CourseFactory
```

```
php artisan make:factory CourseFactory --model=Course
```

Factories [documentation](#)

Test data - Factories

Add data via [Faker](#) to the Factory

```
$factory->define(Course::class, function (Faker $faker) {  
    return [  
        'course_name' => $faker->sentence,  
        'date_start'   => $faker->date,  
        'date_end'     => $faker->date  
    ];  
});
```


Test data - Factories

Add data via Faker to the Factory and a related Model

```
$factory->define(Level::class, function (Faker $faker) {  
    return [  
        'level_name' => $faker->sentence,  
        'course_id' => Course::all()->random()->id  
    ];  
});
```



DataBase Seed

Test data - DataBase seed

Write a DataBase seeder to populate the dataBase

```
public function run()
{
    Course::truncate();
    Level::truncate();

    $courseQuantity = 10;
    $levelQuantity = 40;

    factory(Course::class, $courseQuantity)-
>create();
    factory(Level::class, $levelQuantity)-
>create();
}
```

on every command
call create new
records

number of records
to create

call existing
factories that will
populate desired
tables

Questions?



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