# Laravel resource controllers CRUD

PHP WebDevelopment 2019

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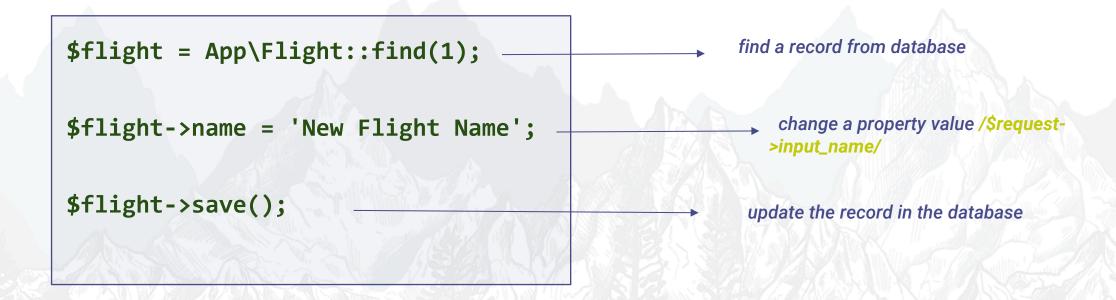
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# update resource



#### Documentation





#### delete resource



#### Documentation

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



#### create vs. save



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

**Documentation** create

**Documentation** save

**Documentation** other creation methods

**<u>Documentation</u>** mass updates and examining attributes changes

# Task 1



#### **CRUD**

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



## 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.

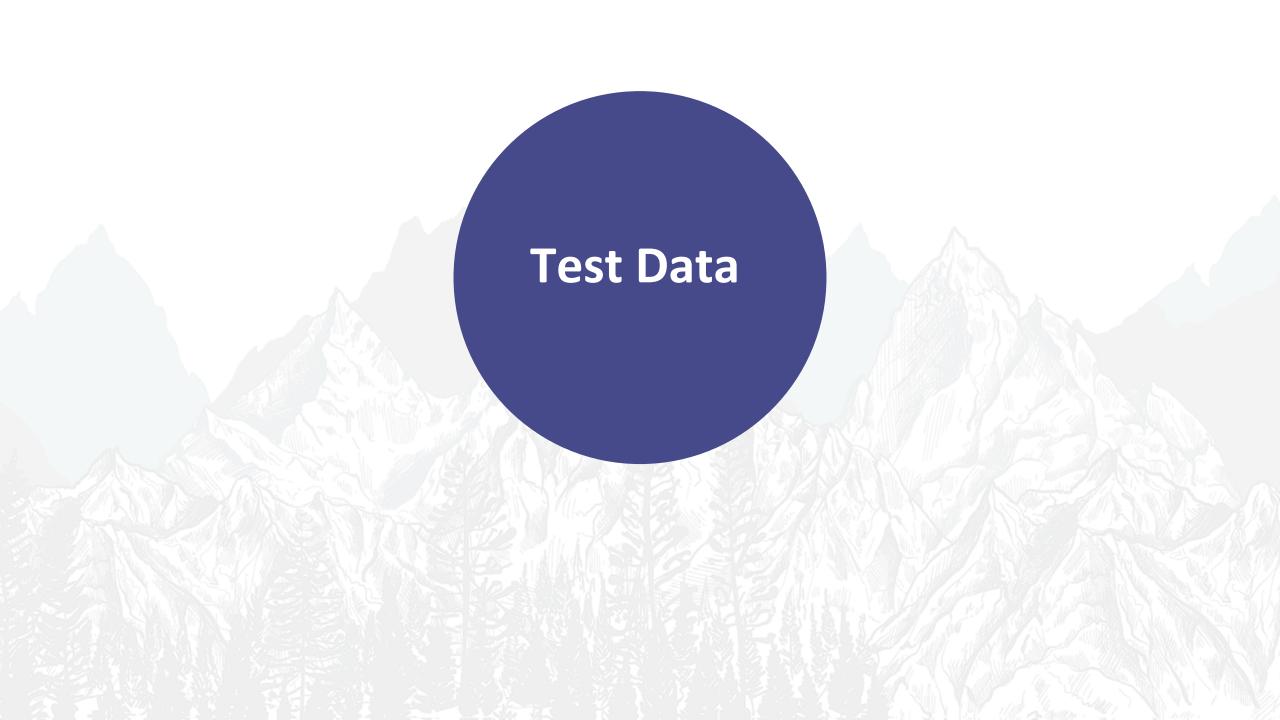
When querying, specify which relationships should be eager loaded.

\$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, ...)





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

- Model factories
- Faker
- Database Seeder





php artisan make:factory CourseFactory

php artisan make:factory CourseFactory --model=Course

Factories documentation



#### 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
    ];
});
```



#### 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
    ];
});
```



#### Test data - DataBase seed



#### Write a **DataBase seeder** to populate the dataBase

```
on every command
                                                                       call create new
 public function run()
                                                                      records
        Course::truncate();
        Level::truncate();
                                                                         number of records
                                                                         to create
        $courseQuantity = 10;
        $levelQuantity = 40;
                                                                         call existing
                                                                         factories that will
        factory(Course::class, $courseQuantity)-
                                                                         populate desired
>create();
                                                                         tables
        factory(Level::class, $levelQuantity)-
>create();
```

# Questions?



#### **Partners**















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