Restful API with Laravel 9

Validation

Objective

- 1. Why need validation?
- 2. Modifying EmployeesController class
- 3. Modifying UsersController class

Why need validation?

- A programmer should consider that any inputs a user makes may be incorrect and should plan arrangements for such unexpected actions.
- Using validation helps a programmer to ensure that any data input is possible and sensible.
- Validation applies rules to inputted data. If the data does not follow the rules, it is rejected, reducing the risk that incorrectly input data may crash a program.
- Url: https://laravel.com/docs/9.x/validation

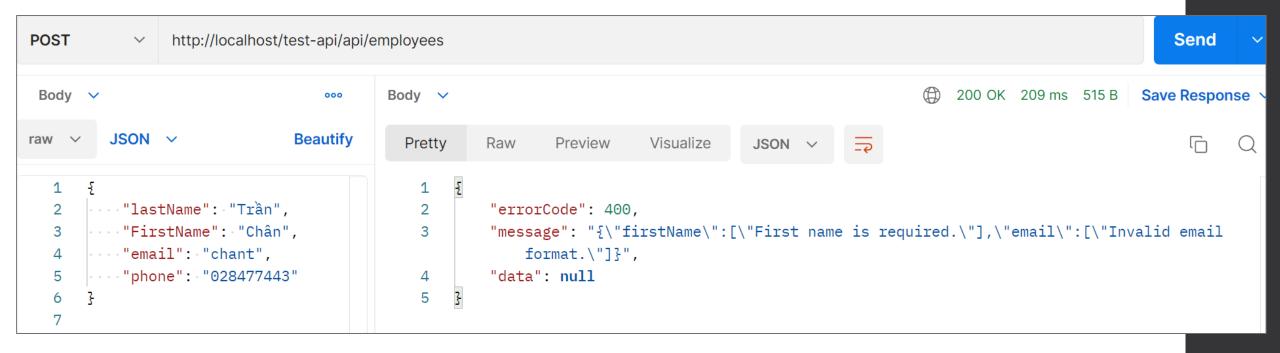
Modifying EmployeesController class

```
use Illuminate\Support\Facades\Validator;
class EmployeesController extends Controller
    private $rules = [
        'lastName' => 'required | min:2',
        'firstName' => 'required',
        'email' => 'email'
    private $messages = [
        'lastName.required' => 'Last name is required.',
        'lastName.min' => 'Last name must at least 2 characters.',
        'firstName.required' => 'First name is required.',
        'email.email' => 'Invalid email format.'
```

```
public function create(Request $request) {
    $validator = Validator::make($request->all(), $this->rules, $this->messages);
    if ($validator->fails()) {
        return BaseResponse::error(400, $validator->messages()->toJson());
    } else {
        try {
            $employee = new Employee();
            $employee->LastName = $request->input('lastName');
            $employee->FirstName = $request->firstName;
            $employee->Email = $request->email;
            $employee->Phone = $request->phone;
            $employee->save();
            return BaseResponse::withData($employee);
        } catch(Throwable $e) {
            return BaseResponse::error(500, $e->getMessage());
```

```
public function update($id, Request $request) {
    $validator = Validator::make($request->all(), $this->rules, $this->messages);
    if ($validator->fails()) {
        return BaseResponse::error(400, $validator->messages()->toJson());
    } else {
        $employee = Employee::find($id);
        if ($employee) {
            try {
                $employee->LastName = $request->lastName;
                $employee->FirstName = $request->firstName;
                if ($request->has('email')) $employee->Email = $request->email;
                if ($request->has('phone')) $employee->Phone = $request->phone;
                $employee->save();
                return BaseResponse::withData($employee);
            } catch(Throwable $e) {
                return BaseResponse::error(500, $e->getMessage());
        } else {
            return BaseResponse::error(404, 'Data not found!');
```

Testing



Modifying UsersController class

```
public function login(Request $req) {
    $rules = [ 'username' => 'required', 'password' => 'required' ];
    $messages = [
        'username.required' => 'Username is required.',
        'password.required' => 'Password is requied.',
    $validator = Validator::make($req->all(), $rules, $messages);
    if ($validator->fails()) {
        return BaseResponse::error(400, $validator->messages()->toJson());
    } else {
        $credentials = [ ···
        if (auth()->attempt($credentials)) { ...
        } else { · · ·
```

Testing

