

DOCUMENTATION

FIRST API

(WITH LUMEN)

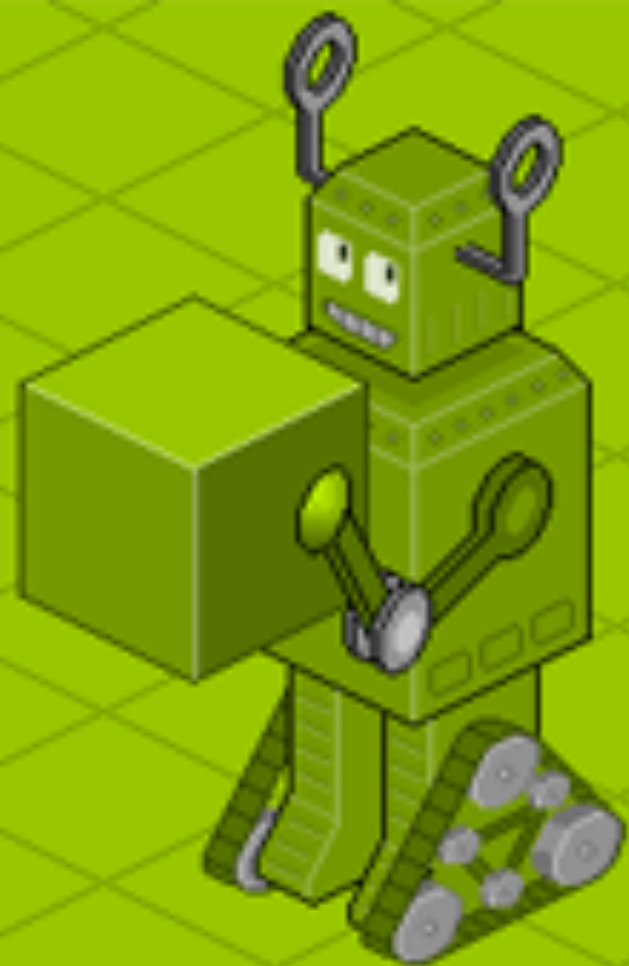
ABOUT ME

- ▶ API Developer at Quartzy
- ▶ 4 Laravel Apps (Mostly Lumen) & a Symfony App
 - ▶ > 200 API endpoints

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SWAGGER

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DOCUMENTATION |

- ▶ **Client Libraries**
- ▶ **Postman/Paw Import**
- ▶ **Documentation**
- ▶ **Input Validation**
- ▶ **Test Assertions**

- ▶ **Protocol Buffers**
- ▶ **Mock Servers**
 - ▶ **Routing**
- ▶ **API Gateways**

Test Documentation Driven Development

POST Create a work order

Matt's Bicycle Shop API

Version 1.0.0[Download OpenAPI definition](#)

Authentication

Create a work order

Create a work order **POST** /work-orders ▾

REQUEST BODY

data ^		object	required
bicycle	string		required
repairs	string[]		required
due_date	string<date-time>		required

RESPONSES

201 The Created Work Order**default** unexpected error ▾

```
class WorkOrderTest extends TestCase
{
    function test_creates()
    {
        $this->json('POST', '/work-orders', [
            'data' => [
                'bicycle' => 'Trek 520',
                'repairs' => [
                    'BRK_FT_ADJUST'
                ],
                'due_date' => '2017-10-12T05:26:51+00:00'
            ],
        ])
        ->seeStatusCode(204)
        ->seeJsonValidatesAgainstSwagger();
    }
}
```

```
class WorkOrdersController
{
  function create(Request $request)
  {
    $this->validateJson($request, '#/components/schemas/NewWorkOrder');

    return WorkOrder::create($request);
  }
}
```

{ JSON-SCHEMA }

```
// Laravel
[
    'title' => 'required|string|max:50',
];
```

```
// JSON Schema
{
    "properties": {
        "title": {
            "type": "string",
            "maxLength": 50
        }
    },
    "required": ["title"]
}
```

{ \$REF }


```
$ composer require league/json-guard  
$ composer require league/json-reference
```



```
$schema      = (new Dereferencer())->dereference('http://api.matts-bikes.dev/openapi#/components/schemas/NewWorkOrder');  
$data        = json_decode($request->getContent());  
$validator   = new Validator($data, $schema);  
  
if ($validator->fails()) {  
    return new JsonResponse($validator->errors());  
}
```


MAINTENANCE

```
~/code/quartzy/abe(master*) » php pls swagger:audit
```

```
Swagger Compiled ✓
```

```
2 routes found which are undocumented
```

+-----+	
route	
+-----+	
GET/surveys	
GET/survey-questions/{id}	
+-----+	

```
~/code/quartzy/api(swagger3) » wc -l ./resources/openapi/openapi.json
3647 ./resources/openapi/openapi.json
```

```
~/code/quartzy/api(swagger3) » tree -L 1 ./resources/openapi
./resources/openapi
├── definitions
├── openapi.json
├── parameters
└── responses
```

```
3 directories, 1 file
```

→ json-guard-cli php json-guard check ./tests/fixtures/bad-schema.json

X Invalid JSON Schema draft-04

Code	Message	Pointer	Value	Constraints
49	"json-guard.dev/schema#" is not a valid uri.	/id	json-guard.dev/schema#	
30	Number "-4" is not at least "0"	/properties/product/maxLength	-4	min:0
25	Value "123" is not a(n) string.	/properties/cost/pattern	123	
28	Value "<ARRAY>" is not a(n) object.	/properties/additionalProperties	<ARRAY>	

ALTERNATIVES

▶ **RAML**

▶ **API Blueprint**

▶ **JSON Schema / JSON Hyper Schema**

LEARNING MORE

- ▶ swagger.io
- ▶ openapis.org
- ▶ json-schema.org