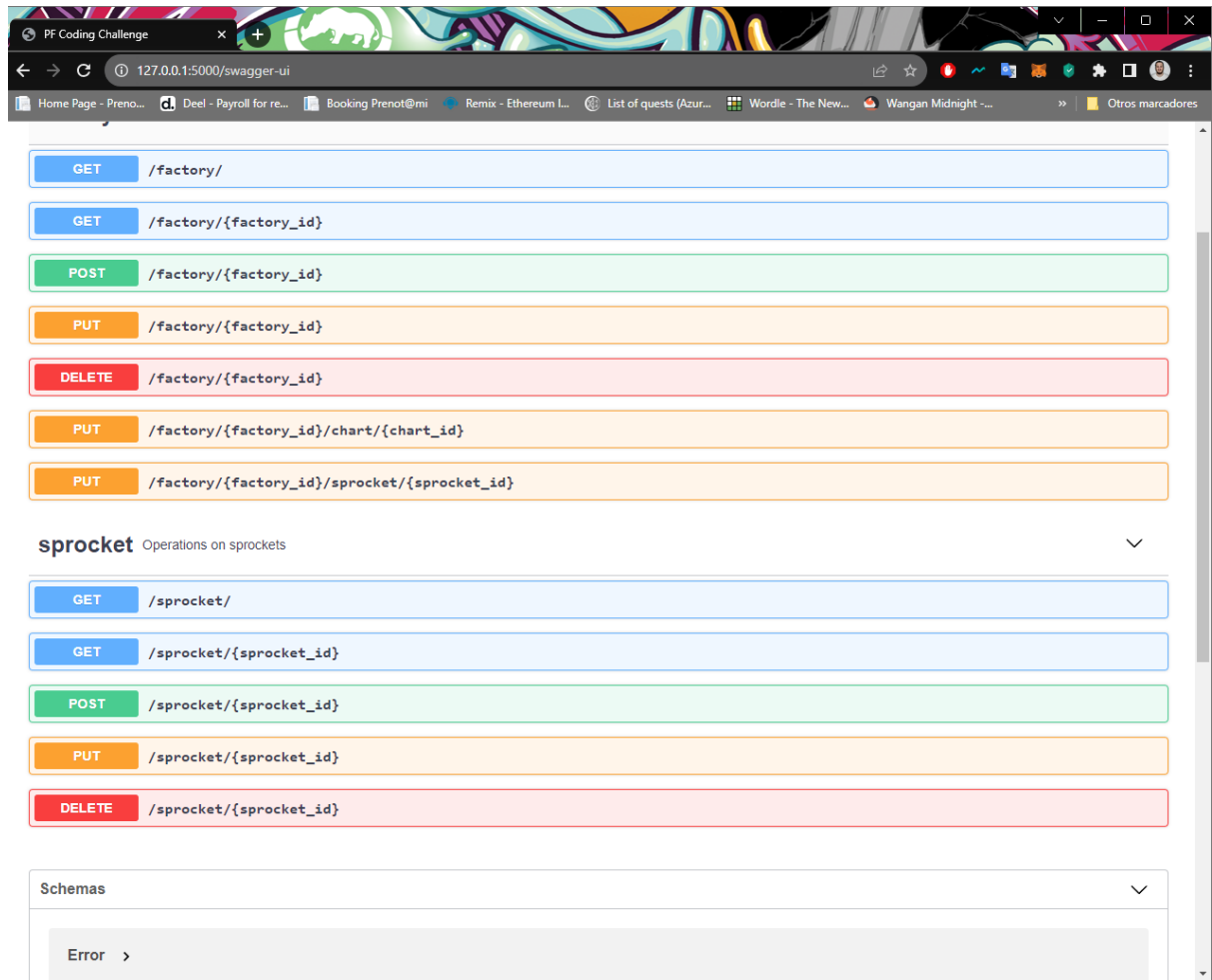


## The swagger main page



## The creation of the first factory with empty fields

**POST** /factory/{factory\_id}

Parameters Cancel

Name	Description
factory_id * required	
integer (path)	1

Request body required application/json

```
{
  "name": "Testing",
  "sprockets": [],
  "chart_data": []
}
```

Execute

Responses

## Response

**Responses**

**Curl**

```
curl -X POST "http://127.0.0.1:5000/factory/1" -H "accept: application/json" -H "Content-Type: application/json" -d '{"name":"Testing","sprockets":[],"chart_data":[]}'
```

**Request URL**

```
http://127.0.0.1:5000/factory/1
```

**Server response**

Code	Details
201	<div><b>Response body</b><pre>{  "chart_data": [],  "id": 1,  "name": "Testing",  "sprockets": []}</pre><a href="#">Download</a></div> <div><b>Response headers</b><pre>connection: close  content-length: 57  content-type: application/json  date: Mon, 04 Sep 2023 14:47:02 GMT  server: Werkzeug/2.3.7 Python/3.11.5</pre></div>

**Responses**

Code	Description
------	-------------

[Links](#)

## Get with ID:1

**GET** /factory/{factory\_id}

**Parameters** [Cancel](#)

Name	Description
<b>factory_id</b> * required integer (path)	<input type="text" value="1"/>

[Execute](#) [Clear](#)

**Responses**

**Curl**

```
curl -X GET "http://127.0.0.1:5000/factory/1" -H "accept: application/json"
```

**Request URL**

```
http://127.0.0.1:5000/factory/1
```

**Server response**

Code	Details
200	<div><b>Response body</b><pre>{  "chart_data": [],  "id": 1,  "name": "Testing",  "sprockets": []}</pre><a href="#">Download</a></div> <div><b>Response headers</b><pre>connection: close  content-length: 57  content-type: application/json  date: Mon, 04 Sep 2023 14:47:32 GMT  server: Werkzeug/2.3.7 Python/3.11.5</pre></div>

**Responses**

Using the endpoint to add a new chart to the factory

PUT

/factory/{factory\_id}/chart/{chart\_id}

Cancel

Parameters

Name	Description
factory_id <span>required</span>	
integer	1
(path)	
chart_id <span>required</span>	
string	1
(path)	

Request body required

application/json

```
{  "sprocket_production_goal": 1000,  "sprocket_production_rate": 1000,  "time": 4564657894765465}
```

Execute

Clear

Responses

Curl

## Response

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{  "chart_data": [    {      "sprocket_production_goal": 1000,      "sprocket_production_rate": 1000,      "time": 4564657894765465    }  ],  "id": 1,  "name": "Testing",  "sprockets": []}</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>connection: closecontent-length: 146content-type: application/jsondate: Mon, 04 Sep 2023 14:48:09 GMTserver: Werkzeug/2.3.7 Python/3.11.5</pre></div></div>

Responses

Code	Description	Links
200		No links

## Changes into the get

Request URL

http://127.0.0.1:5000/factory/1

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{  "chart_data": [    {      "sprocket_production_goal": 1000,      "sprocket_production_rate": 1000,      "time": 4564657894765465    }  ],  "id": 1,  "name": "Testing",  "sprockets": []}</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>connection: closecontent-length: 146content-type: application/jsondate: Mon, 04 Sep 2023 14:48:45 GMTserver: Werkzeug/2.3.7 Python/3.11.5</pre></div></div>

Responses

Code	Description	Links
------	-------------	-------

Using the endpoint to add a sprocket to the factory directly

PUT

/factory/{factory\_id}/sprocket/{sprocket\_id}

Cancel

Parameters

Name	Description
factory_id * required	
integer	
(path)	
sprocket_id * required	
integer	
(path)	

Request body required

application/json

```
{  "teeth": 110,  "pitch_diameter": 2321,  "outside_diameter": 2321,  "pitch": 2321}
```

Execute

Clear

Response

Server response

Code

Details

200

Response body

```
{  "chart_data": [    {      "sprocket_production_goal": 1000,      "sprocket_production_rate": 1000,      "time": 4564657894765465    }  ],  "id": 1,  "name": "Testing",  "sprockets": [    {      "id": 1,      "outside_diameter": 2321,      "pitch": 2321,      "pitch_diameter": 2321,      "teeth": 110    }  ]}
```

Download

Response headers

```
connection: close
content-length: 225
content-type: application/json
date: Mon, 04 Sep 2023 14:49:09 GMT
server: Werkzeug/2.3.7 Python/3.11.5
```

Responses

Code	Description	Links
200	OK	No links

Using the get again

Server response

Code	Details
200	<div><p>Response body</p><pre>{   "chart_data": [     {       "sprocket_production_goal": 1000,       "sprocket_production_rate": 1000,       "time": 4564657894765465     }   ],   "id": 1,   "name": "Testing",   "sprockets": [     {       "id": 1,       "outside_diameter": 2321,       "pitch": 2321,       "pitch_diameter": 2321,       "teeth": 110     }   ] }</pre><a href="#">Download</a></div> <div><p>Response headers</p><pre>connection: close content-length: 225 content-type: application/json date: Mon, 04 Sep 2023 14:51:40 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre></div>

Responses

Code	Description	Links
------	-------------	-------

Now using the sprocket get

sprocket Operations on sprockets

GET /sprocket/

Parameters [Cancel](#)

No parameters

[Execute](#) [Clear](#)

Responses

Curl

```
curl -X GET "http://127.0.0.1:5000/sprocket/" -H "accept: application/json"
```

Request URL

```
http://127.0.0.1:5000/sprocket/
```

Server response

Code	Details
200	<div><p>Response body</p><pre>[   {     "id": 1,     "outside_diameter": 2321,     "pitch": 2321,     "pitch_diameter": 2321,     "teeth": 110   } ]</pre><a href="#">Download</a></div> <div><p>Response headers</p><pre>connection: close content-length: 82 content-type: application/json</pre></div>

Get it by id

GET /sprocket/{sprocket\_id}

Parameters Cancel

Name	Description
sprocket_id * required integer (path)	<input type="text" value="1"/>

Execute Clear

Responses

Curl

```
curl -X GET "http://127.0.0.1:5000/sprocket/1" -H "accept: application/json"
```

Request URL

```
http://127.0.0.1:5000/sprocket/1
```

Server response

Code	Details
200	<div>Response body</div> <pre>{   "id": 1,   "outside_diameter": 2321,   "pitch": 2321,   "pitch_diameter": 2321,   "teeth": 110 }</pre> <div>Download</div> <div>Response headers</div> <pre>connection: close content-length: 80 content-type: application/json date: Mon, 04 Sep 2023 14:52:19 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre>

Responses

Creating a new sprocket with an empty factory

POST /sprocket/{sprocket\_id}

Parameters Cancel

Name	Description
sprocket_id * required integer (path)	<input type="text" value="2"/>

Request body \* required application/json

```
{
  "teeth": 12,
  "pitch_diameter": 12,
  "outside_diameter": 12,
  "pitch": 12,
  "factory_id": 0
}
```

Execute

Responses

Code	Description	Links
204		<a href="#">View</a> <a href="#">Raw</a>

Response

Server response		
Code	Details	
201	<div>Response body</div> <pre>{   "id": 2,   "outside_diameter": 12,   "pitch": 12,   "pitch_diameter": 12,   "teeth": 12 }</pre> <div>Download</div> <div>Response headers</div> <pre>connection: close content-length: 73 content-type: application/json date: Mon, 04 Sep 2023 14:52:49 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre>	
Responses		
Code	Description	Links

Editing the sprocket to have 13 instead

PUT/sprocket/{sprocket\_id}

Parameters

Name

Description

sprocket\_id \* required

integer (path)

2

Request body \* required

application/json

```
{
  "teeth": 13,
  "pitch_diameter": 13,
  "outside_diameter": 13,
  "pitch": 13
}
```

Execute

Clear

Responses

Curl

```
curl -X PUT "http://127.0.0.1:5000/sprocket/2" -H "accept: application/json" -H "Content-Type: application/json" -d '{"teeth":13,"pitch_diameter":13,"outside_diameter":13,"pitch":13}'
```

Request URL

http://127.0.0.1:5000/sprocket/2

Server response

Code	Details
200	<div>Response body</div> <pre>{   "id": 2,   "outside_diameter": 13,   "pitch": 13,   "pitch_diameter": 13,   "teeth": 13 }</pre> <div>Download</div> <div>Response headers</div> <pre>connection: close content-length: 73 content-type: application/json date: Mon, 04 Sep 2023 14:53:06 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre>

Responses

Deleting the sprocket

DELETE /sprocket/{sprocket\_id}

Parameters

Cancel

Name	Description
sprocket_id * required integer (path)	2

Execute Clear

Responses

Curl

```
curl -X DELETE "http://127.0.0.1:5000/sprocket/2" -H "accept: application/json"
```

Request URL

```
http://127.0.0.1:5000/sprocket/2
```

Server response

Code	Details
204	<div>Response headers</div> <pre>connection: close content-type: application/json date: Mon, 04 Sep 2023 14:53:30 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre>

Response

Code	Description	Links
------	-------------	-------

Searching for it by id

GET /sprocket/{sprocket\_id}

Parameters

Cancel

Name	Description
sprocket_id * required integer (path)	2

Execute Clear

Responses

Curl

```
curl -X GET "http://127.0.0.1:5000/sprocket/2" -H "accept: application/json"
```

Request URL

```
http://127.0.0.1:5000/sprocket/2
```

Server response

Code	Details
404	<div>Error: NOT FOUND</div> <div>Response body</div> <pre>{   "code": 404,   "status": "Not Found" }</pre> <div>Download</div> <div>Response headers</div> <pre>connection: close content-length: 34 content-type: application/json date: Mon, 04 Sep 2023 14:53:47 GMT server: Werkzeug/2.3.7 Python/3.11.5</pre>

Response

Code	Description	Links
------	-------------	-------

Creating a second factory to test the get all



GET

/factory/

Parameters

Cancel

No parameters

Execute

Clear

Responses

Curl

curl -X GET "http://127.0.0.1:5000/factory/" -H "accept: application/json"

Request URL

http://127.0.0.1:5000/factory/

Server response

Code

Details

200

Response body

```
{
  "chart_data": [
    {
      "sprocket_production_goal": 1000,
      "sprocket_production_rate": 1000,
      "time": 4564657894765465
    }
  ],
  "id": 1,
  "name": "Testing",
  "sprockets": [
    {
      "id": 1,
      "outside_diameter": 2321,
      "pitch": 2321,
      "pitch_diameter": 2321,
      "teeth": 110
    }
  ]
},
{
  "chart_data": [],
  "id": 2,
  "name": "Testing 2",
  "sprockets": []
}
]
```

Download

Response headers

```
connection: close
content-length: 286
content-type: application/json
date: Mon, 04 Sep 2023 14:54:16 GMT
server: Werkzeug/2.3.7 Python/3.11.5
```

Responses

Doing the same with the sprockets

GET

/sprocket/

Parameters

Cancel

No parameters

Execute

Clear

Responses

Curl

curl -X GET "http://127.0.0.1:5000/sprocket/" -H "accept: application/json"

Request URL

http://127.0.0.1:5000/sprocket/

Server response

Code

Details

200

Response body

```
{
  {
    "id": 1,
    "outside_diameter": 2321,
    "pitch": 2321,
    "pitch_diameter": 2321,
    "teeth": 118
  },
  {
    "id": 2,
    "outside_diameter": 12,
    "pitch": 12,
    "pitch_diameter": 12,
    "teeth": 12
  }
}
```

Download

Response headers

```
connection: close
content-length: 155
content-type: application/json
date: Mon, 04 Sep 2023 14:54:43 GMT
server: Werkzeug/2.3.7 Python/3.11.5
```

Responses

Code

Description

Links

200

OK

No links

Media type

application/json

POSTMAN  
Get all factories

My Workspace

New Import

Overview GET Get all Factories

No Environment

PF\_Coding\_Challenge / Factory / Get all Factories

GET http://127.0.0.1:5000/factory Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 23 ms 448 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "chart_data": [
3     {
4       "id": 1,
5       "name": "Testing",
6       "sprockets": [
7         {
8           "id": 1,
9           "outside_diameter": 2321,
10          "pitch": 2321,
11          "pitch_diameter": 2321,
12          "teeth": 110
13        }
14      ],
15      "sprocket_production_goal": 1000,
16      "sprocket_production_rate": 1000,
17      "time": 4564657894765465
18    }
19  ],
20  "id": 5,
21  "name": "Alpha",
22  "sprockets": []
23 }
```

Get Factory By ID

Overview

GET Get all Factories

GET Get Factory by ID

+ ...

No Environment

PF\_Coding\_Challenge / Factory / Get Factory by ID

Save

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

200 OK 8 ms 391 B

Save as Example

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "chart_data": [
3      {
4        "sprocket_production_goal": 1000,
5        "sprocket_production_rate": 1000,
6        "time": 4564657894765465
7      }
8    ],
9    "id": 1,
10   "name": "Testing",
11   "sprockets": [
12     {
13       "id": 1,
14       "outside_diameter": 2321,
15       "pitch": 2321,
16       "pitch_diameter": 2321,
17       "teeth": 110
18     }
19   ]
20 }
```

Runner

Desktop Agent

Cookies

Trash

Overview GET Get all Factories GET Get Factory by ID POST Create a Factory No Environment

PF\_Coding\_Challenge / Factory / Create a Factory Save

POST http://127.0.0.1:5000/factory/6 Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "name": "Alpha",
3   "sprockets": [],
4   "chart_data": []
5 }
```

Body Cookies Headers (5) Test Results 201 CREATED 11 ms 225 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "chart_data": [],
3   "id": 6,
4   "name": "Alpha",
5   "sprockets": []
6 }
```

PF\_Coding\_Challenge / Factory / Edit Factory Name by ID Save

PUT http://127.0.0.1:5000/factory/6 Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "name": "AlphaAS"
3 }
```

Body Cookies Headers (5) Test Results 200 OK 11 ms 184 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "AlphaAS"
3 }
```

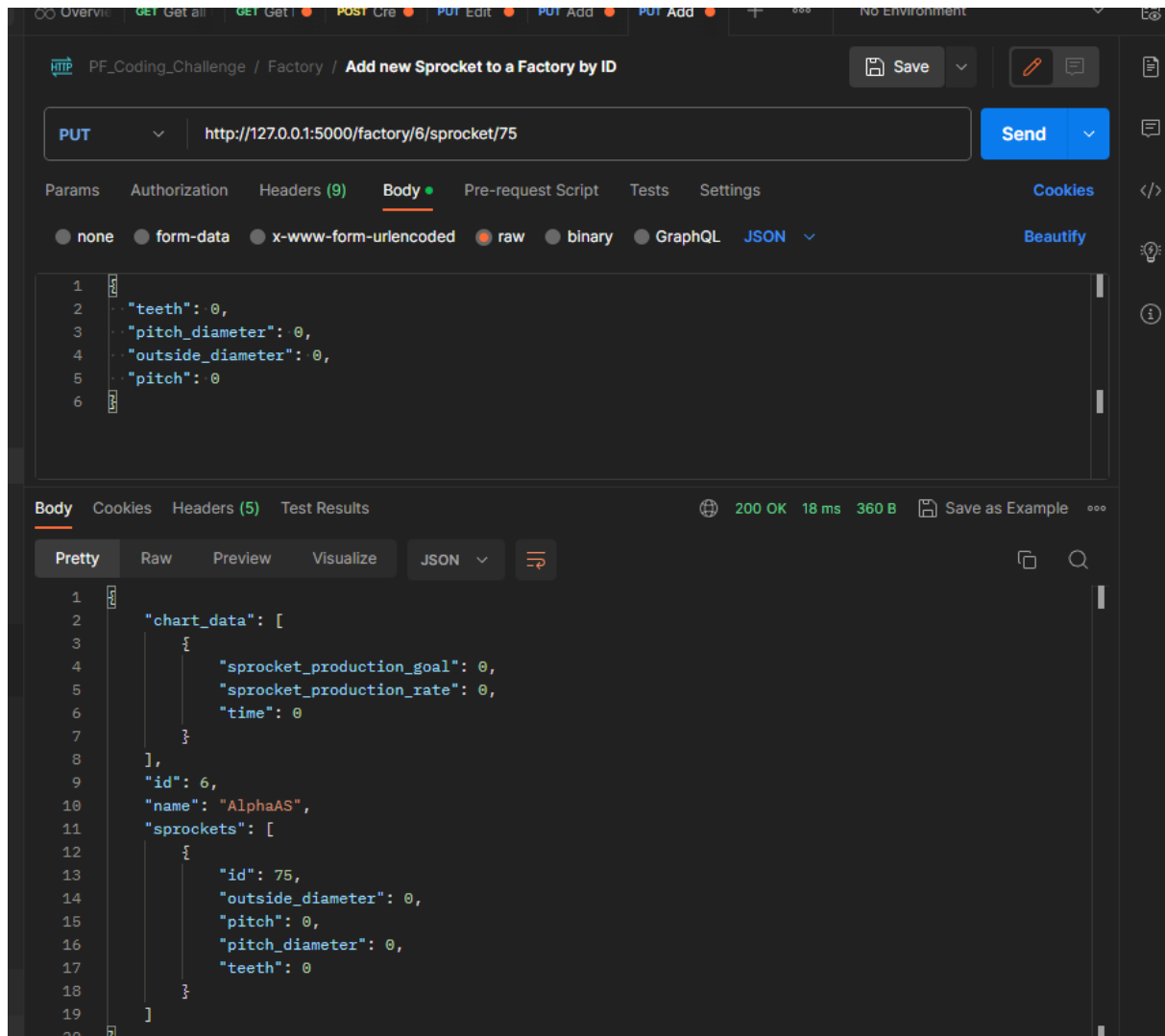
Send

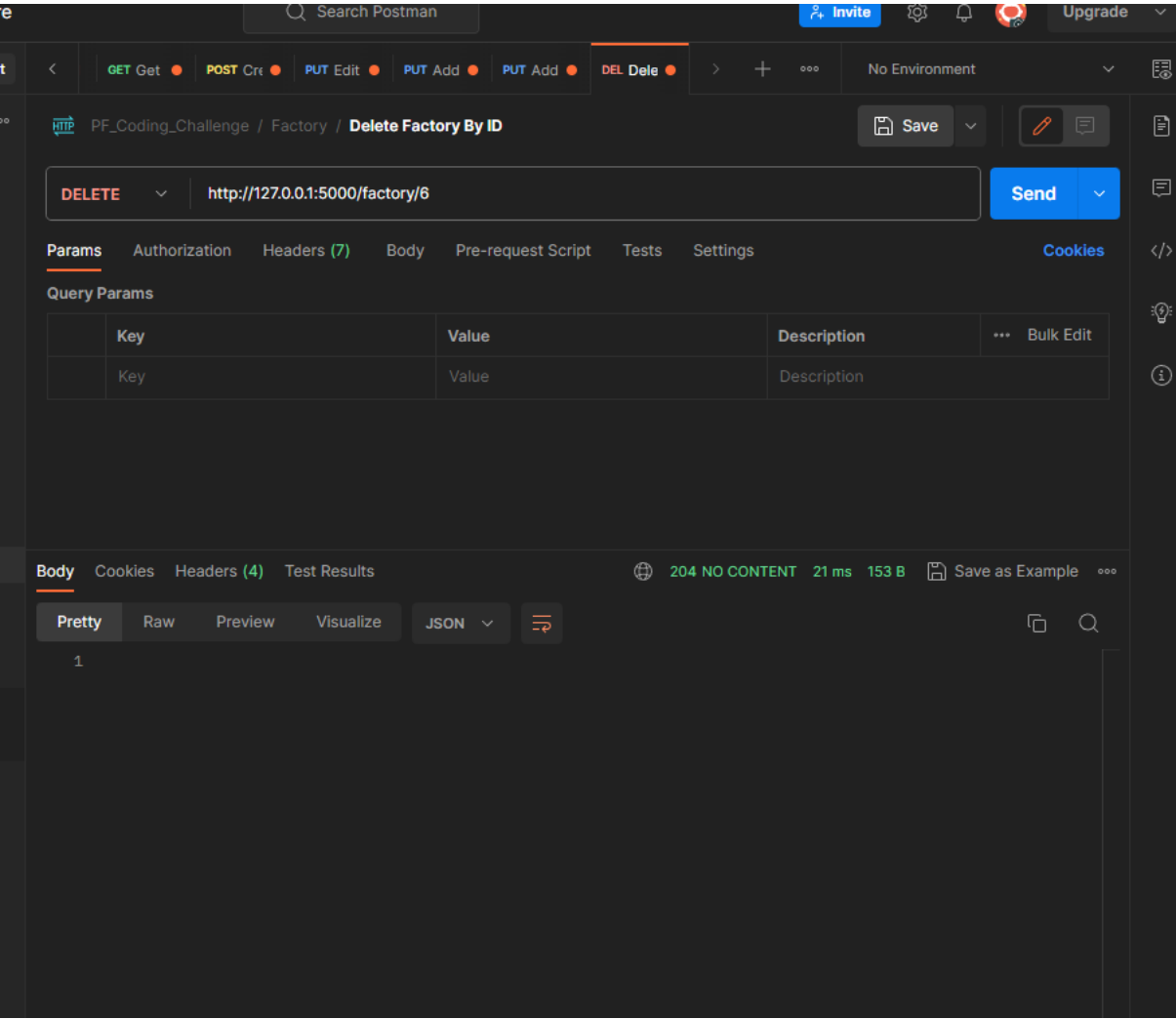
## Cookies

## Beautify

 Save as Example ...









GET Get

POST Cre

PUT Edit

PUT Add

PUT Add

DEL Dele

No Environment

PF\_Coding\_Challenge / Factory / Delete Factory By ID

Save

DELETE

http://127.0.0.1:5000/factory/6

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

404 NOT FOUND 6 ms 206 B Save as Example

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

"code": 404,

"status": "Not Found"

PF\_Coding\_Challenge

DELETE

http://127.0.0.1:5000/factory/6

Send

Headers

Body

Test Results

Key

Value

Key

Value

Key

Value

GET

POST

PUT

DELETE

HEAD

OPTIONS

CONNECT

TRACE

HTTP/1.1

Sprockets

POST CreatePUT EditPUT AddPUT AddDEL DeleteGET Return

No Environment

PF\_Coding\_Challenge / Sprocket / Return all sprockets

GEThttp://127.0.0.1:5000/sprocketSend

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettingsCookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (5)Test Results200 OK6 ms321 BSave as Example

PrettyRawPreviewVisualizeJSON

```
1 {
2   {
3     "id": 1,
4     "outside_diameter": 2321,
5     "pitch": 2321,
6     "pitch_diameter": 2321,
7     "teeth": 110
8   },
9   {
10    "id": 2,
11    "outside_diameter": 12,
12    "pitch": 12,
13    "pitch_diameter": 12,
14    "teeth": 12
15  }
```

PF\_Coding\_Challenge / Sprocket / **Return 1 sprocket by ID**

GET http://127.0.0.1:5000/sprocket/1 **Send**

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 5 ms 245 B Save as Example

Pretty Raw Preview Visualize JSON Bulk Edit

```
1 {
2   "id": 1,
3   "outside_diameter": 2321,
4   "pitch": 2321,
5   "pitch_diameter": 2321,
6   "teeth": 110
7 }
```

PF\_Coding\_Challenge / Sprocket / **Create 1 Sprocket**

POST http://127.0.0.1:5000/sprocket/42 **Send**

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded **raw** binary GraphQL JSON Beautify

```
1 {
2   "teeth": 0,
3   "pitch_diameter": 0,
4   "outside_diameter": 0,
5   "pitch": 0,
6   "factory_id": 0
7 }
```

Body Cookies Headers (5) Test Results 201 CREATED 15 ms 240 B Save as Example

Pretty Raw Preview Visualize JSON Bulk Edit

```
1 {
2   "id": 42,
3   "outside_diameter": 0,
4   "pitch": 0,
5   "pitch_diameter": 0,
6   "teeth": 0
7 }
```

PF\_Coding\_Challenge / Sprocket / **Edit sprocket by ID** Save ✎ 💬

**PUT** ▼ http://127.0.0.1:5000/sprocket/42 Send ▼

Params Authorization Headers (9) **Body** • Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼ Beautify

```
1  {
2    "teeth": 10,
3    "pitch_diameter": 0,
4    "outside_diameter": 0,
5    "pitch": 0
6  }
```

**Body** Cookies Headers (5) Test Results 🌐 **200 OK** **11 ms** **236 B** 💾 Save as Example ⋮

**Pretty** Raw Preview Visualize **JSON** ▼ ⇌

```
1  {
2    "id": 42,
3    "outside_diameter": 0,
4    "pitch": 0,
5    "pitch_diameter": 0,
6    "teeth": 10
7  }
```

port < > DEL Delete GET Return GET Return POST Create PUT Edit DEL Delete + ⋮ No Environment ▼ 🔗

PF\_Coding\_Challenge / Sprocket / **Delete an Sprocket by ID** Save ✎ 💬 📄

**DELETE** ▼ http://127.0.0.1:5000/sprocket/42 Send ▼

Params Authorization Headers (7) **Body** Pre-request Script Tests Settings Cookies </>

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

**Body** Cookies Headers (4) Test Results 🌐 **204 NO CONTENT** **12 ms** **153 B** 💾 Save as Example ⋮

**Pretty** Raw Preview Visualize **JSON** ▼ ⇌

```
1
```

🔗 **PF\_Coding\_Challenge / Sprocket / Edit sprocket by ID** Save ✎ 💬

**PUT** ▼ http://127.0.0.1:5000/sprocket/42 Send ▼

Params Authorization Headers (9) **Body** • Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼ Beautify

```
1  {
2    "teeth": 10,
3    "pitch_diameter": 0,
4    "outside_diameter": 0,
5    "pitch": 0
6  }
```

**Body** Cookies Headers (5) Test Results 🌐 **200 OK** **11 ms** **236 B** 💾 Save as Example ⋮

**Pretty** Raw Preview Visualize **JSON** ▼ ⇌

```
1  {
2    "id": 42,
3    "outside_diameter": 0,
4    "pitch": 0,
5    "pitch_diameter": 0,
6    "teeth": 10
7  }
```

PF\_Coding\_Challenge / Sprocket / Delete an Sprocket by ID

DELETE

http://127.0.0.1:5000/sprocket/42

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

404 NOT FOUND

5 ms

206 B

Save as Example

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

"code": 404,

"status": "Not Found"