

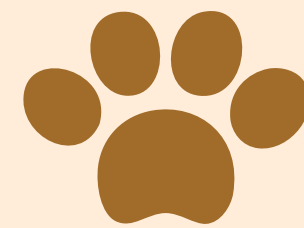
PET STORE API

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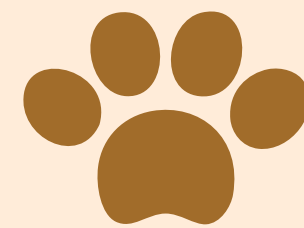




Topic Outline



WHAT IS AN API?



WHAT IS IN THE PETSTORE API?



ACTIVITIES WITH SCREENSHOTS

Introduction to API

- **INTERFACE:** APIS PROVIDE A WAY FOR DIFFERENT SOFTWARE SYSTEMS TO COMMUNICATE AND INTERACT WITH EACH OTHER.
- **REQUESTS AND RESPONSES:** THEY FACILITATE THE EXCHANGE OF DATA OR SERVICES BY ALLOWING ONE PROGRAM TO REQUEST INFORMATION OR FUNCTIONALITY FROM ANOTHER PROGRAM, WHICH THEN RESPONDS ACCORDINGLY.
- **DEFINED RULES:** APIS HAVE SPECIFIC RULES AND PROTOCOLS THAT GOVERN HOW REQUESTS AND RESPONSES SHOULD BE STRUCTURED AND WHAT ACTIONS ARE PERMITTED.
- **INTEGRATION:** APIS ENABLE THE INTEGRATION OF DIFFERENT SOFTWARE APPLICATIONS, SERVICES, OR PLATFORMS, ALLOWING THEM TO WORK TOGETHER SEAMLESSLY.



What is in the Petstore API?

- **API DESCRIPTION:** THE PROVIDED SWAGGER 2.0 DOCUMENT OUTLINES THE SPECIFICATIONS FOR A SAMPLE SERVER CALLED "SWAGGER PETSTORE." IT DEFINES VARIOUS PATHS AND OPERATIONS TO INTERACT WITH PETS, ORDERS, AND USERS.
- **SECURITY DEFINITIONS:** THE DOCUMENT INCLUDES SECURITY DEFINITIONS FOR API ACCESS, SUCH AS AN API KEY MECHANISM (API_KEY HEADER) AND OAUTH2 AUTHENTICATION (PETSTORE_AUTH). THESE ARE ESSENTIAL FOR CONTROLLING ACCESS TO THE API ENDPOINTS.
- **DATA MODELS:** IT DEFINES SEVERAL DATA MODELS SUCH AS PET, CATEGORY, TAG, ORDER, AND USER, ALONG WITH THEIR PROPERTIES AND RELATIONSHIPS. THESE MODELS REPRESENT THE STRUCTURED DATA EXCHANGED THROUGH THE API ENDPOINTS, PROVIDING CLARITY ON THE EXPECTED INPUT AND OUTPUT FORMATS.

<https://petstore.swagger.io/#/>



Activity 1

Add a pet

The screenshot displays the Postman interface for a REST client. The top bar includes a search bar, an 'Invite' button, and various utility icons. The breadcrumb navigation shows the path: Overview > activity > POST act > pet api > POST ADD A PET. The main workspace is divided into two sections: the request editor and the response viewer.

Request Editor:

- Method:** POST
- URL:** https://petstore.swagger.io/v2/pet
- Body Type:** raw (selected), JSON
- Body Content:**

```
1 {  
2   "id": 7760,  
3   "name": "sujeevi",  
4   "status": "Ready to be snuggled"  
5 }
```

Response Viewer:

- Status:** 200 OK, 262 ms, 411 B
- Body Type:** Pretty (selected), Raw, Preview, Visualize, JSON
- Response Content:**

```
1 {  
2   "id": 7760,  
3   "name": "sujeevi",  
4   "photoUrls": [],  
5   "tags": [],  
6   "status": "Ready to be snuggled"  
7 }
```

Decorative elements on the right side of the image include large, light-brown paw prints and a small illustration of an orange dog with a red ball.

Activity 1 (Cont.)

Get the new Pet by status

The screenshot shows the Postman interface for a GET request to the pet store API. The request URL is `https://petstore.swagger.io/v2/pet/findByStatus?status=Ready to be snuggled`. The query parameter `status` is set to `Ready to be snuggled`. The response is a JSON object representing a pet.

Query Params

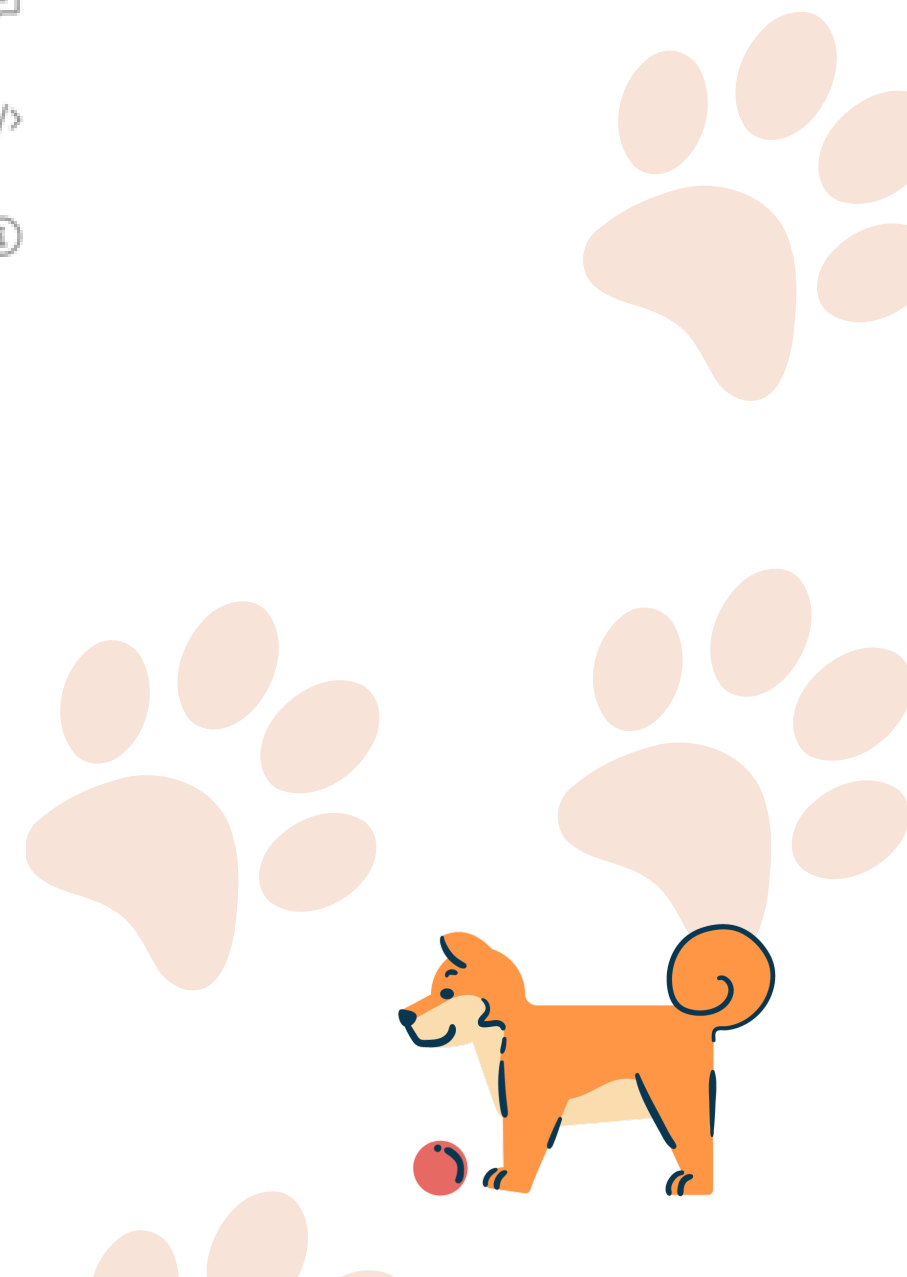
Key	Value	Description
<input checked="" type="checkbox"/> status	Ready to be snuggled	
<input type="checkbox"/> status	sold	
<input type="checkbox"/> status	pending	

Body

200 OK 873 ms 413 B Save as example

Pretty Raw Preview Visualize JSON

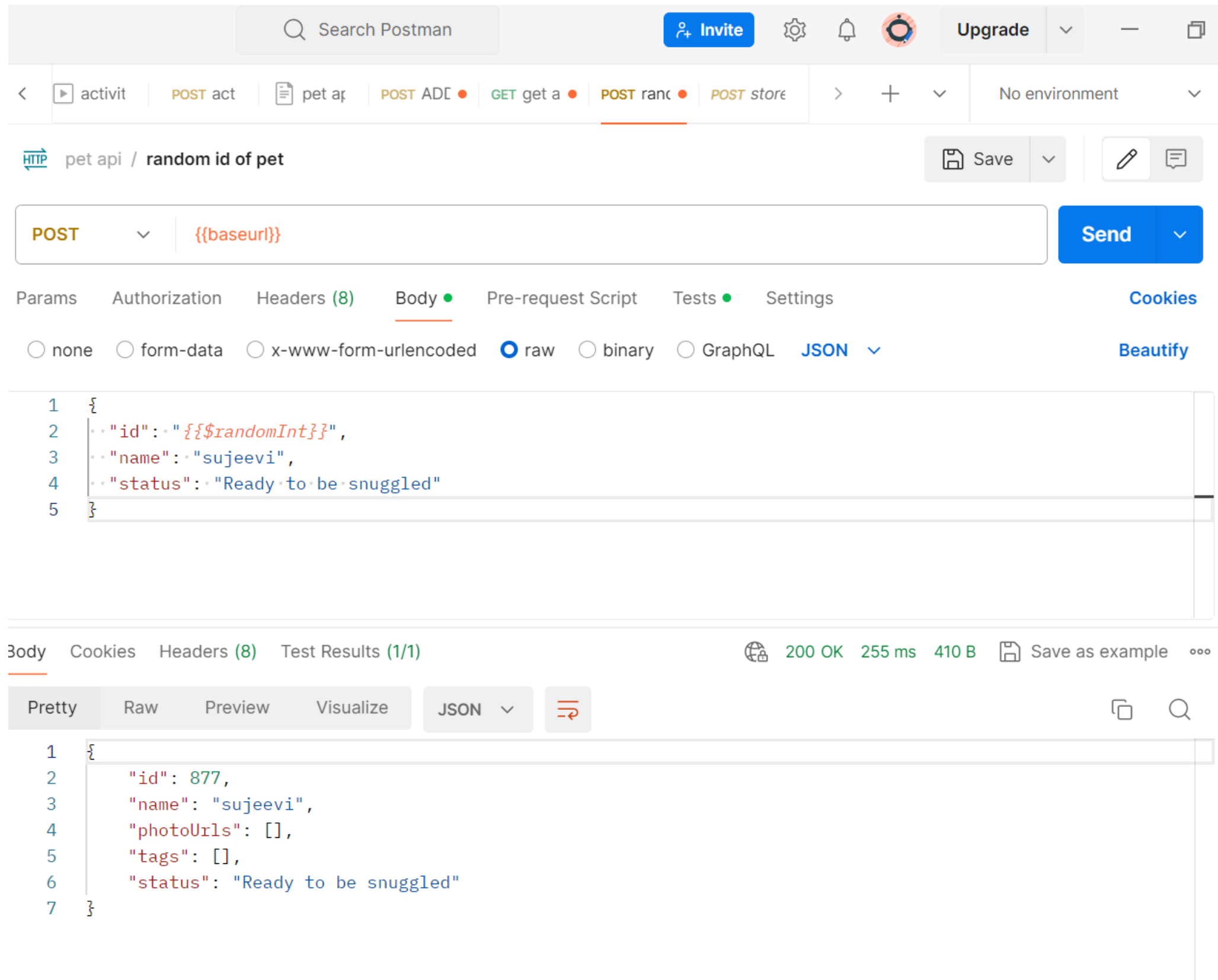
```
1 [
2   {
3     "id": 7760,
4     "name": "sujeevi",
5     "photoUrls": [],
6     "tags": [],
7     "status": "Ready to be snuggled"
8   }
9 ]
```



Activity 2

Add Pet(Random ID)

Base Url: <https://petstore.swagger.io/v2/>



The screenshot shows the Postman interface for a POST request to the petstore API. The request is configured with the following details:

- Method:** POST
- URL:** `{{baseurl}}`
- Body:** JSON format, containing the following payload:

```
1 {
2   "id": "{{randomInt}}",
3   "name": "sujeevi",
4   "status": "Ready to be snuggled"
5 }
```

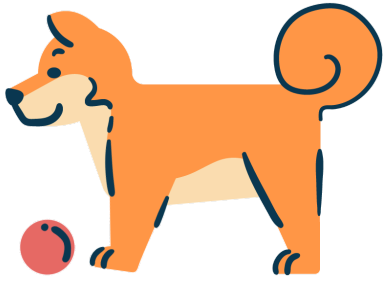
The response is displayed in the bottom panel, showing a 200 OK status with a response time of 255 ms and a body size of 410 B. The response body is formatted as JSON:

```
1 {
2   "id": 877,
3   "name": "sujeevi",
4   "photoUrls": [],
5   "tags": [],
6   "status": "Ready to be snuggled"
7 }
```

The interface also includes a top bar with a search bar, an 'Invite' button, and a 'No environment' dropdown. The bottom panel has tabs for 'Body', 'Cookies', 'Headers (8)', and 'Test Results (1/1)', with a 'Pretty' view selected.



Activity 3



Add a pet as above but randomize the pet Name as well as the pet Status based on a predefined set of values.

```
POST https://petstore.swagger.io/v2/pet

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

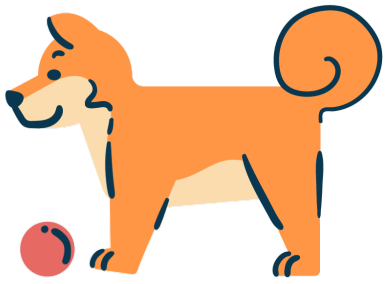
1
2 const list1 = ["john", "peter", "leo", "billy"];
3 const list2 = ["dead", "alive"];
4 pm.environment.set("nameid", list1[Math.floor(Math.random() * list1.length)]);
5 pm.environment.set("statusid", list2[Math.floor(Math.random() * list2.length)]);
```

```
POST https://petstore.swagger.io/v2/pet

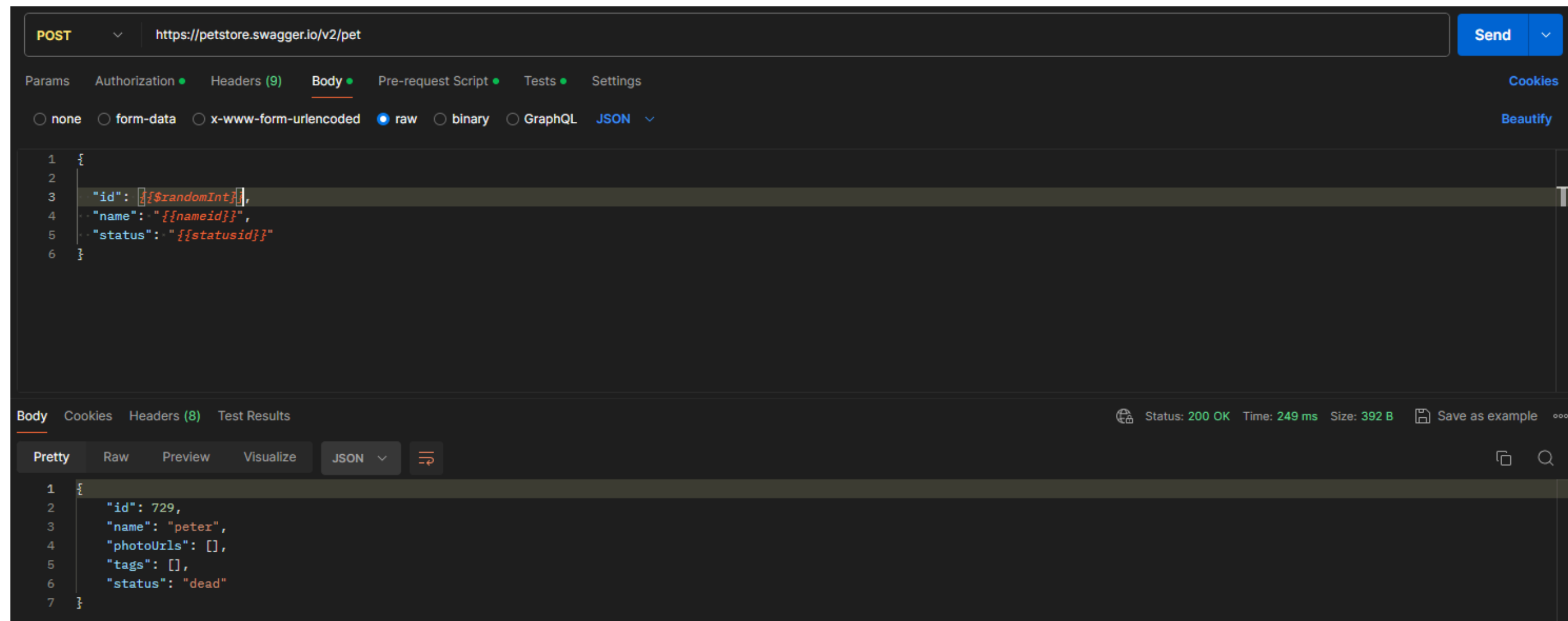
Params Authorization Headers (9) Body Pre-request Script Tests Settings

1 const response = pm.response.json();
2 pm.globals.set("setID", response["id"]);
```


Activity 3 (cont.)



Add a pet as above but randomize the pet Name as well as the pet Status based on a predefined set of values.



Activity 4



Get Pet variation:

For the POST request above where the pet id was randomized, run a GET request to get the details of the pet created, using the pet id. This should be automated, not manual key-in of the pet id.

The screenshot shows a REST client interface with a GET request to `https://petstore.swagger.io/v2/pet/{setID}`. The response is a JSON object with the following structure:

```
{
  "id": 729,
  "name": "peter",
  "photoUrls": [],
  "tags": [],
  "status": "dead"
}
```

The interface includes tabs for Params, Authorization, Headers (7), Body, Pre-request Script, Tests, and Settings. The Params tab is active, showing a table with columns Key, Value, and Description. The Body tab is also active, showing the JSON response. The status bar indicates a 200 OK response with a time of 319 ms and a size of 392 B.

Key	Value	Description
Key	Value	Description

Body: Pretty, Raw, Preview, Visualize, JSON, Save as example

Activity 5



Post/Get/Put/Delete operations together:

Building on top of above, do the following sequence:

- Post request as above, with randomized id, name and status
- Get request to get the details of the pet added above
- Put request to update the status of the pet created above
- Get request to verify that the status is actually changed
- Delete request to delete the pet
- Get request to verify that the pet cannot be found
- Use `console.log` to add informational messages throughout.

POST Add Pet (Ra

GET Get Random

PUT Update Pet

DEL Delete Pet

+

▼

No environment ▼

HTTP

Pet Store / Add Pet (Randomize)

✎

💬

POST ▼

https://petstore.swagger.io/v2/pet

Send ▼

Params

Auth

Headers (8)

Body ●

Pre-req. ●

Tests ●

Settings

raw ▼

JSON ▼

Beautify

1 {

2 • "id": • {{ \$randomInt }},

3 • "name": • "{{ randomAnimal }}",

4 • "status": • "{{ status }}"

5 }

6

Body ▼

🌐

200 OK

955 ms

394 B

📁 Save as example

⋮

Pretty

Raw

Preview

Visualize

JSON ▼

🔍

1 {

2 " id": 956,

3 " name": "cheetah",

4 " photoUrls": [],

5 " tags": [],

6 " status": "sold"

7 }

☰

👉 Online

🔍 Find and replace

📄

Console

Collapse Sidebar (Ctrl+\\)

POST https://petstore.swagger.io/v2/pet

"Random pets are added"

POST Add Pet (Ra GET Get Random I PUT Update Pet DEL Delete Pet + No environment

HTTP Pet Store / Get Random PET

GET https://petstore.swagger.io/v2/pet/{id} Send

Params Auth Headers (6) Body Pre-req. Tests Settings Cookies

raw JSON Beautify

1

Body 200 OK 251 ms 394 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 956,
3   "name": "cheetah",
4   "photoUrls": [],
5   "tags": [],
6   "status": "sold"
7 }
```

► POST https://petstore.swagger.io/v2/pet

"Random pets are added"

► GET https://petstore.swagger.io/v2/pet/956

"Random pets are displayed"

POST Add Pet (Ra) GET Get Random I PUT Update Pet DEL Delete Pet + No environment

HTTP Pet Store / Update Pet

PUT https://petstore.swagger.io/v2/pet Send

Params Auth Headers (8) Body Pre-req. Tests Settings Cookies Beautify

raw JSON

```
1 {
2   "id": "{{id}}",
3   "name": "{{name}}",
4   "status": "sold"
5 }
```

Body 200 OK 251 ms 394 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 956,
3   "name": "cheetah",
4   "photoUrls": [],
5   "tags": [],
6   "status": "sold"
7 }
```

Online Find and replace Console

► POST https://petstore.swagger.io/v2/pet

"Random pets are added"

► GET https://petstore.swagger.io/v2/pet/956

"Random pets are displayed"

"Random pets are updated"

► PUT https://petstore.swagger.io/v2/pet

POST Add Pet | GET Get Random | PUT Update Pet | **DEL Delete Pet** | + | No environment

HTTP Pet Store / Delete Pet

DELETE | `https://petstore.swagger.io/v2/pet/{id}` | Send

Params | Auth | Headers (6) | Body | Pre-req. | **Tests** | Settings | Cookies

1 `console.log("Random pets are delete")`

Test scripts are written in JavaScript, and are run after the response is received. Learn more about [tests scripts](#)

Snippets

- [Get an environment variable](#)
- [Get a global variable](#)
- [Get a variable](#)
- [Get a collection variable](#)

Body | 200 OK | 253 ms | 371 B | Save as example

Pretty | Raw | Preview | Visualize | JSON |

```
1 {
2   "code": 200,
3   "type": "unknown",
4   "message": "956"
5 }
```

DEL Delete Pet

Online | Find and replace | Console

► POST `https://petstore.swagger.io/v2/pet`

"Random pets are added"

► GET `https://petstore.swagger.io/v2/pet/956`

"Random pets are displayed"

"Random pets are updated"

► PUT `https://petstore.swagger.io/v2/pet`

► DELETE `https://petstore.swagger.io/v2/pet/956`

"Random pets are deleted"

POST Add Pet (Ra GET Get Random PUT Update Pet DEL Delete Pet + No environment

Pet Store / Get Random PET

GET https://petstore.swagger.io/v2/pet/{{id}} Send

Params Auth Headers (6) Body Pre-req. Tests Settings Cookies Beautify

raw JSON

1

Body 404 Not Found 253 ms 384 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "code": 1,
3   "type": "error",
4   "message": "Pet not found"
5 }
```

Online Find and replace Console

► POST https://petstore.swagger.io/v2/pet

"Random pets are added"

► GET https://petstore.swagger.io/v2/pet/956

"Random pets are displayed"

"Random pets are updated"

► PUT https://petstore.swagger.io/v2/pet

► DELETE https://petstore.swagger.io/v2/pet/956

"Random pets are deleted"

► GET https://petstore.swagger.io/v2/pet/956

"Random pets are deleted, nothing to display"

Activity 6



Activity-6:

- a) Create a CSV file with test data as shown.
- b) Use the CSV test data to create POST requests.
- c) Use console.log to write the data being used during each request.

	A	B	C	D	E
1	petID01	petName01	petStatus01		
2	6866	Timmy01	alive		
3	6867	Rocky01	hungry		
4	6868	Devil01	bored		
5	6869	Tommy01	hatching		
6	6870	Timmy02	eating		
7	6871	Rocky02	running		
8	6872	Devil02	sad		
9	6873	Tommy02	happy		
10	6874	Timmy03	sleeping		
11	6875	Rocky03	shouting		
12					
13					
14					
15					

POST Add PetGET Get RancPUT Update FDEL Delete PePOST CSV+No environment

HTTP CSV / CSV

POSThttps://petstore.swagger.io/v2/pet

Send

ParamsAuthHeaders (8)BodyPre-req.TestsSettingsCookies

1 console.log(pm.response.json())

Test scripts are written in JavaScript, and are run after the response is received. Learn more about tests scripts

Snippets

Get an environment variable

Get a global variable

Get a variable

Get a collection variable

POST CSV

▶ CSV

+

▼

No environment

▼

CSV - Run results

Run Again

Automate Run ▼

+ New Run

Export Results

Ran today at 12:58:04 · [View all runs](#)

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	none	10	5s 354ms	0	426 ms

All Tests

Passed (0)

Failed (0)

Skipped (0)

[View Summary.](#)

POST CSV

https://petstore.swagger.io/v2/pet

200 OK 359 ms 394 B

No tests found

Iteration 8

POST CSV

https://petstore.swagger.io/v2/pet

200 OK 356 ms 396 B

No tests found

Iteration 9

POST CSV

https://petstore.swagger.io/v2/pet

200 OK 341 ms 399 B

No tests found

Iteration 10

POST CSV

https://petstore.swagger.io/v2/pet

200 OK 347 ms 399 B

No tests found

1

2

3

4

5

6

7

8

9

10

Postbot

Runner

Start Proxy

Cookies

Trash

▶ <code>{id: 6870, name: "Timmy02", photoUrls: [0]...}</code>		
▶ POST https://petstore.swagger.io/v2/pet	200	343 ms
▶ <code>{id: 6871, name: "Rocky02", photoUrls: [0]...}</code>		
▶ POST https://petstore.swagger.io/v2/pet	200	359 ms
▶ <code>{id: 6872, name: "Devil02", photoUrls: [0]...}</code>		
▶ POST https://petstore.swagger.io/v2/pet	200	356 ms
▶ <code>{id: 6873, name: "Tommy02", photoUrls: [0]...}</code>		
▶ POST https://petstore.swagger.io/v2/pet	200	341 ms
▶ <code>{id: 6874, name: "Timmy03", photoUrls: [0]...}</code>		
▶ POST https://petstore.swagger.io/v2/pet	200	347 ms
▶ <code>{id: 6875, name: "Rocky03", photoUrls: [0]...}</code>		

**Thank you for
listening!**

