

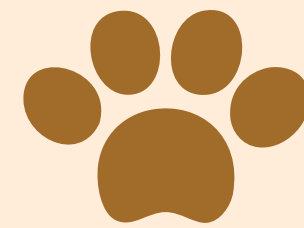
# PET STORE API

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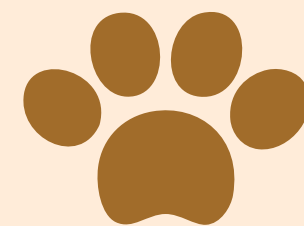
# Topic Outline



**WHAT IS AN API?**



**WHAT IS IN THE  
PETSTORE API?**



**ACTIVITIES WITH  
SCREENSHOT**

# 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?

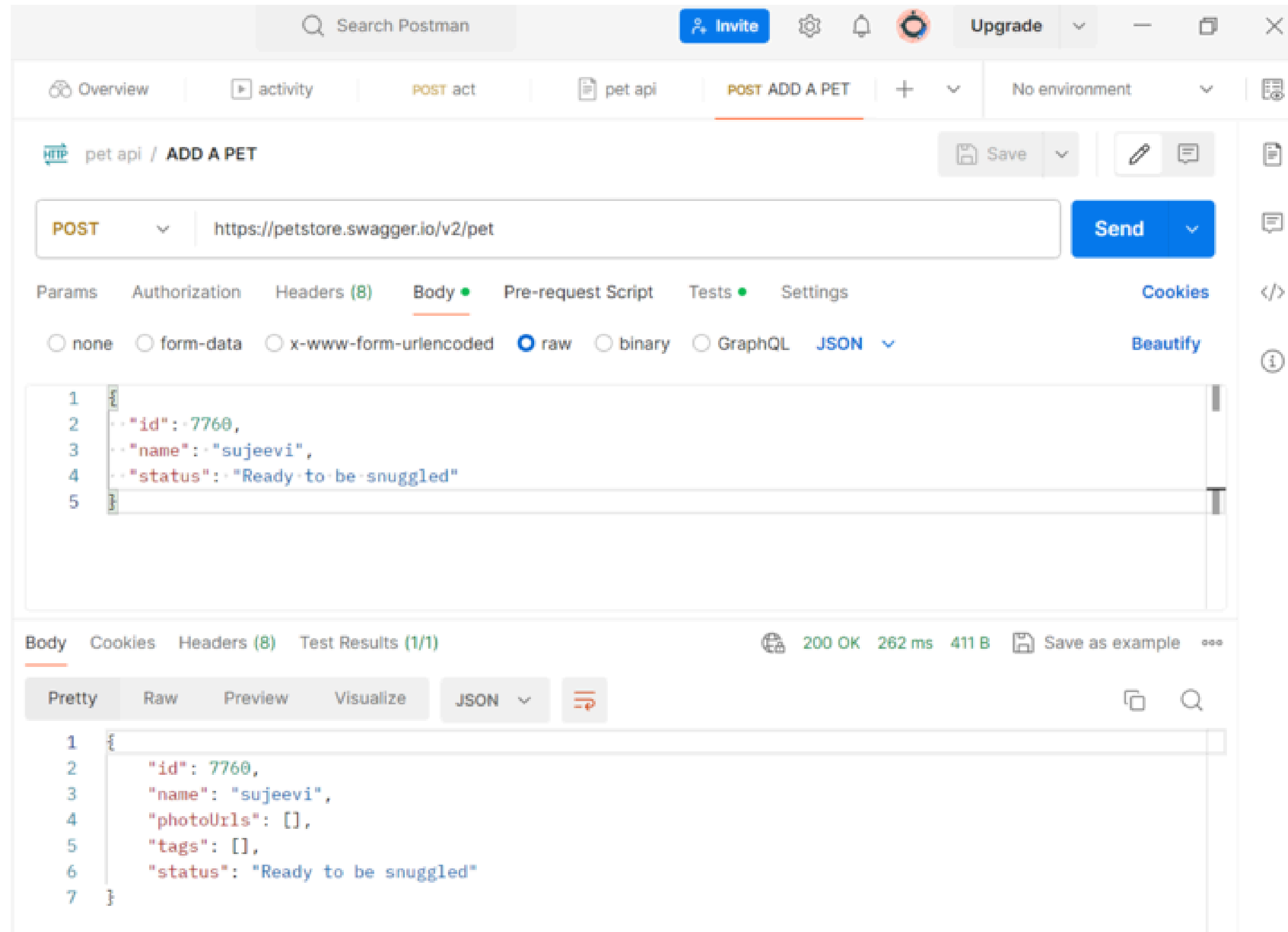
<https://petstore.swagger.io/#/>

- **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.



# Activity 1

Add a pet

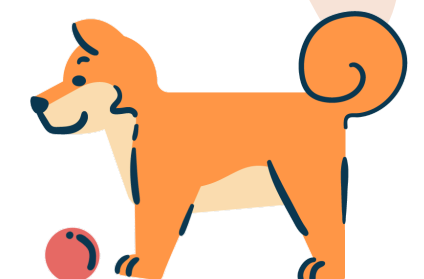


The screenshot displays the Postman interface for a POST request to the Pet Store API. The request is configured with the following details:

- Method:** POST
- URL:** `https://petstore.swagger.io/v2/pet`
- Body:** The request body is a JSON object with the following fields:

```
{  "id": 7760,  "name": "sujeevi",  "status": "Ready to be snuggled"}
```
- Response:** The response is a 200 OK status with a response time of 262 ms and a body size of 411 B. The response body is a JSON object with the following fields:

```
{  "id": 7760,  "name": "sujeevi",  "photoUrls": [],  "tags": [],  "status": "Ready to be snuggled"}
```



# Activity 1 (cont.)

Get the new Pet by status

The screenshot shows the Postman interface with a GET request to the endpoint `https://petstore.swagger.io/v2/pet/findByStatus?status=Ready to be snuggled`. The request is successful, returning a 200 OK status with a response time of 873 ms and a body size of 413 B. The response body is displayed in JSON format, showing a pet with the following details:

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

```
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/>

Search Postman

Invite Upgrade

activit POST act pet ap POST AD GET get a POST ran POST store

No environment

pet api / random id of pet

Save

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

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

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

Body Cookies Headers (8) Test Results (1/1)

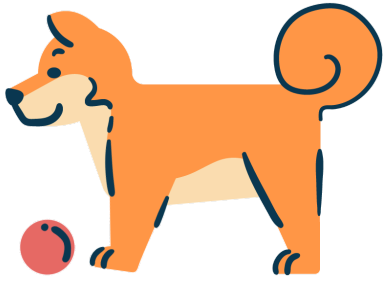
200 OK 255 ms 410 B Save as example

Pretty Raw Preview Visualize JSON

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



# 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)]);
```

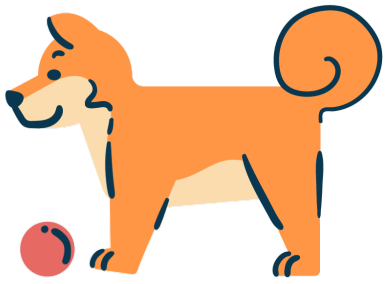
```
POST https://petstore.swagger.io/v2/pet

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

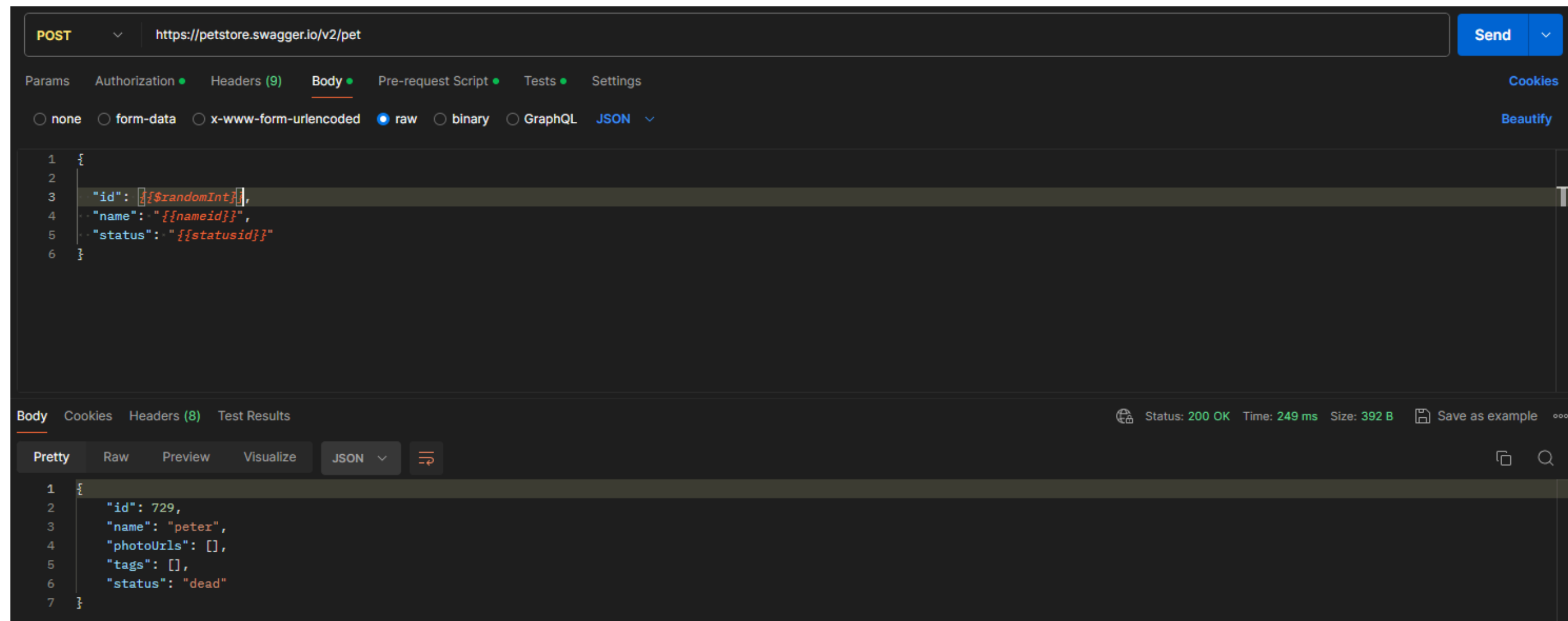
1 const response = pm.response.json();
2 pm.globals.set("setID", response["id"]);
```



# 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: Cookies Headers (8) Test Results

Status: 200 OK Time: 319 ms Size: 392 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 729,
3   "name": "peter",
4   "photoUrls": [],
5   "tags": [],
6   "status": "dead"
7 }
```

# 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

Cookies

Beautify

raw

▼

JSON

▼

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/petSend

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

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!**

