

# Date & Time JSON API

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# Agenda

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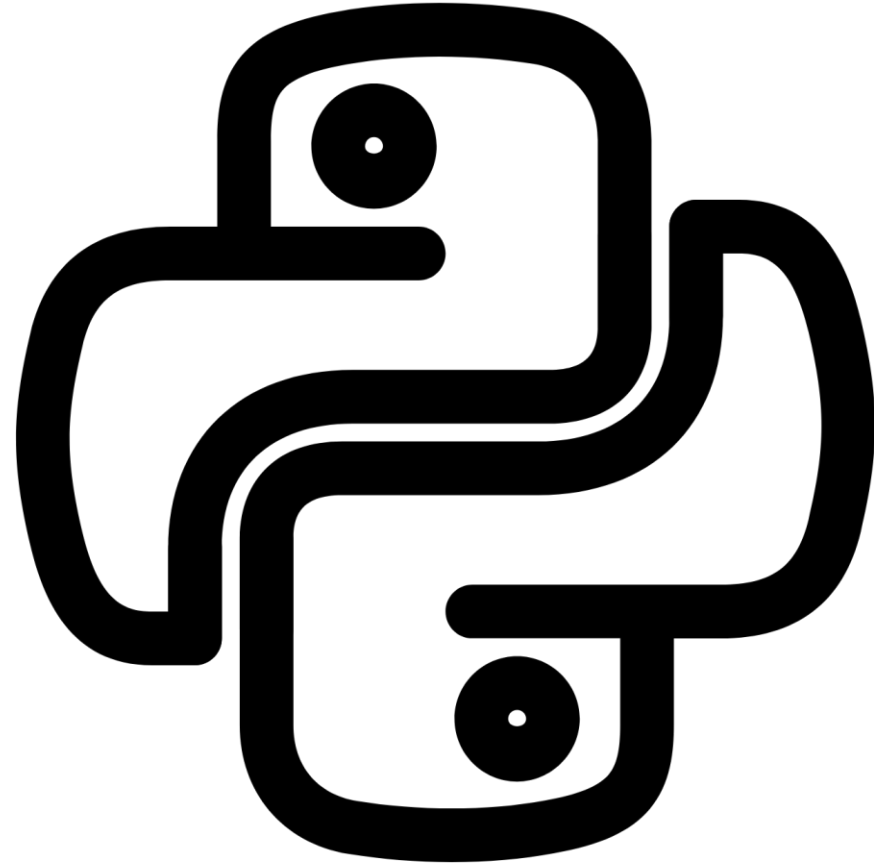
Date & Time

JSON

API

HTTP Request

REST API & `requests`





# Date & Time

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HANDLING DATE & TIME IN A FUN WAY

# Date & Time

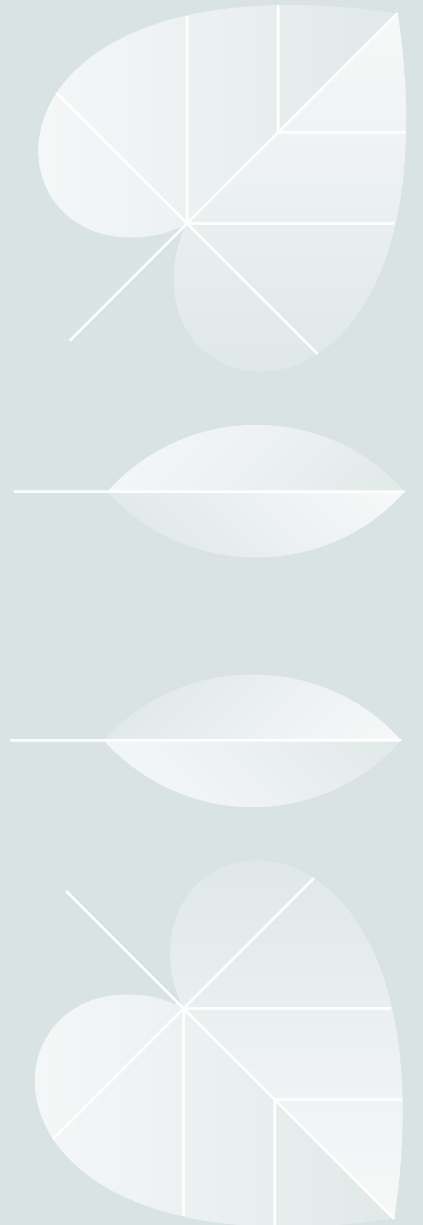
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Manage Date & Time related functionalities using the built-in `datetime` module.

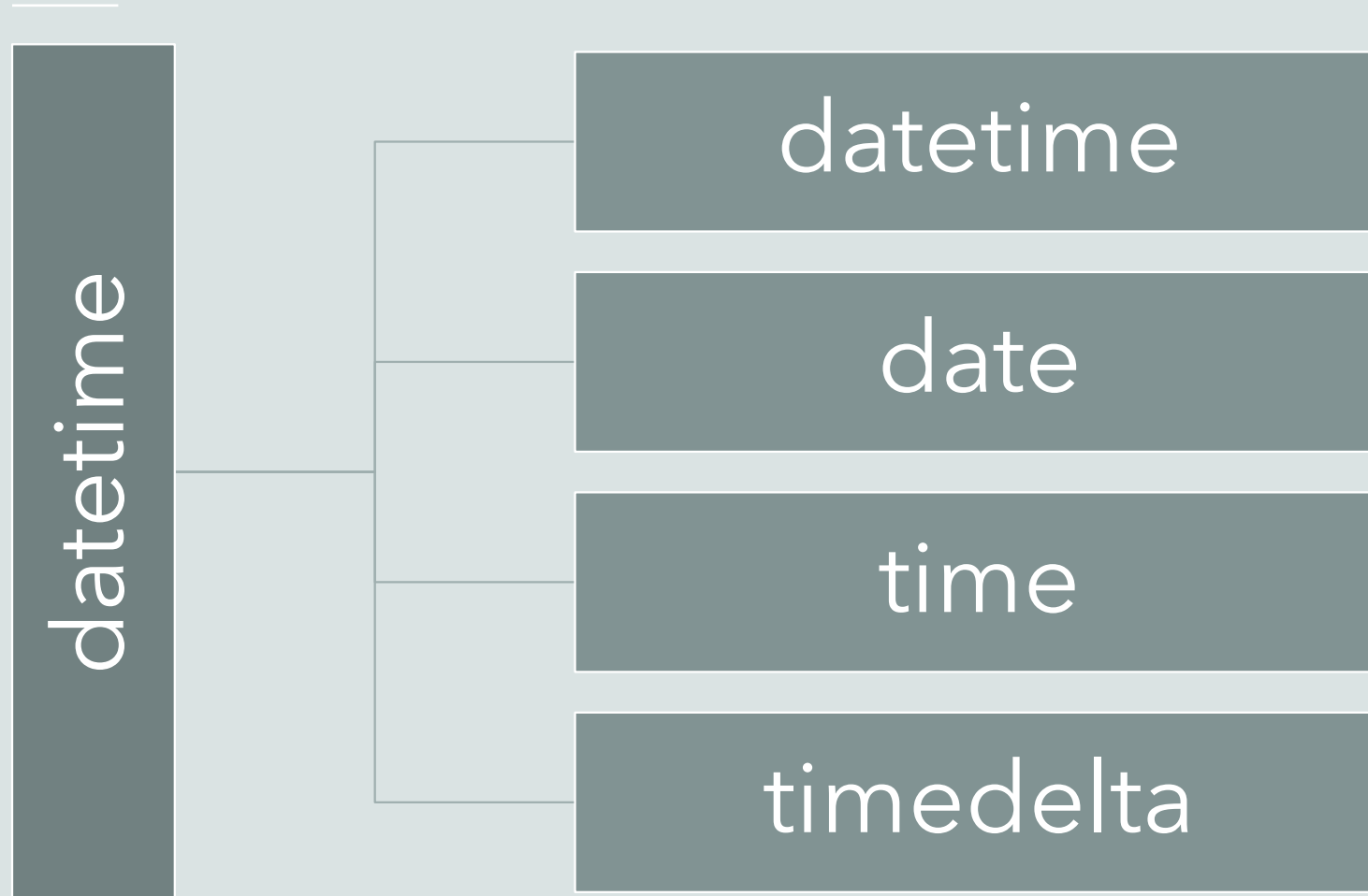


app.py

```
1 import datetime
2
3 print(datetime.datetime.now())
```



# Date & Time





# JSON

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SIMPLIFIED + TEXT FORMATTED MIX OF  
DICTIONARY & LIST



# API

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INTERFACE TO COMMUNICATE WITH

The slide features a light gray background with decorative white line art of leaves and branches in the corners. The top-left and top-right corners have clusters of elongated leaves. The bottom-left and bottom-right corners have larger, more complex leaf structures with multiple lobes. The central text is in a black serif font.

# HTTP

## Request - Response

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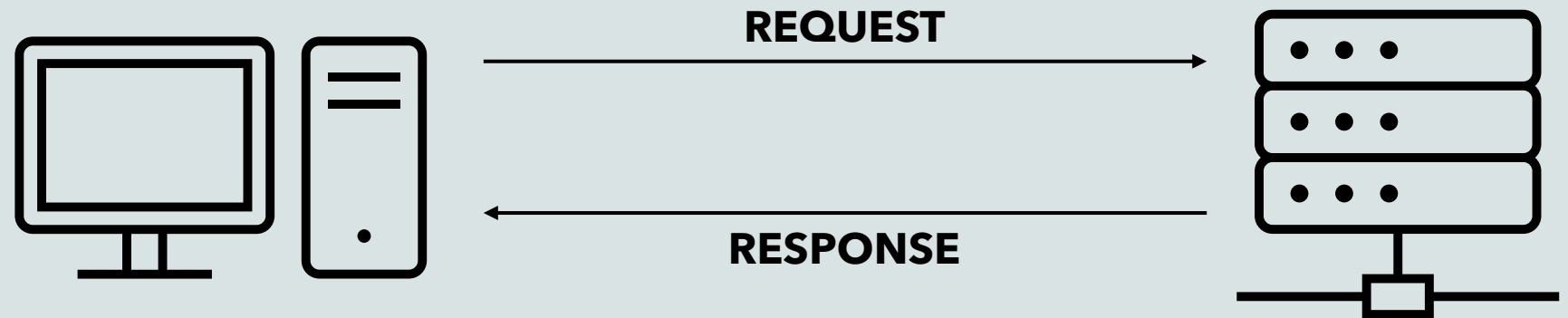
JUST SIMPLE HYPER TEXT TRANSFER PROTOCOL



# HTTP Request - Response

**Request** is requesting something from the server.

**Response** is what the client got.



# HTTP Request – Response



## Request

```
POST / HTTP/1.1
```

```
Host: developer.mozilla.org
```

```
User-Agent: curl/8.6.0
```

```
Accept: */*
```

```
Content-Type: application/json
```

```
Content-Length: 345
```

```
{  
  "data": "ABC123"  
}
```

← Start line →

← Headers →

← Empty line →

← Body →

## Response

```
HTTP/1.1 403 Forbidden
```

```
Server: Apache
```

```
Date: Fri, 21 Jun 2024 12:52:39 GMT
```

```
Content-Length: 678
```

```
Content-Type: text/html
```

```
Cache-Control: no-store
```

```
<!DOCTYPE html>  
<html lang="en">  
(more data...)
```



# REST API

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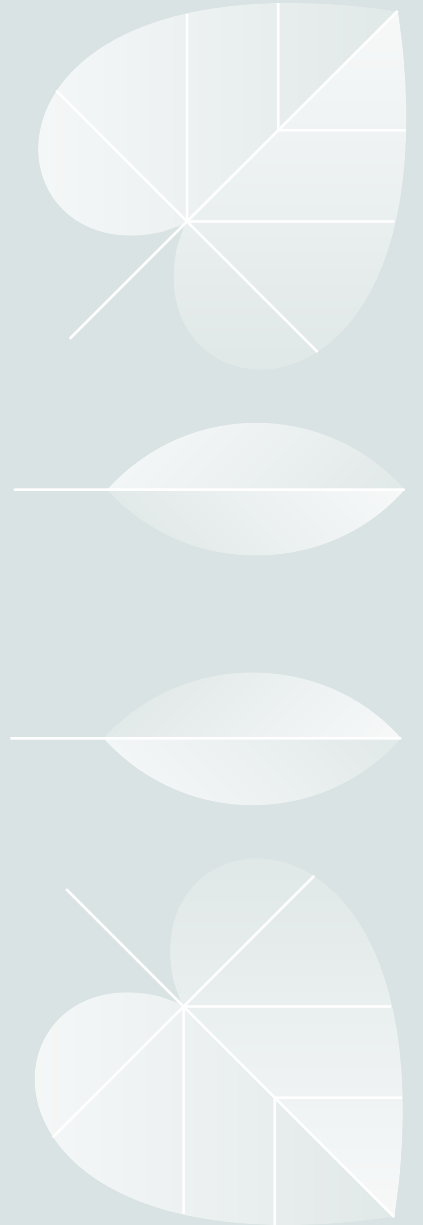
SIMPLE API FOLLOWING REST PRINCIPLES

# REST API

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Common **5** HTTP methods that REST API follows:

- **GET** – Mostly to get anything
- **POST** – Mostly to create new data
- **PUT / PATCH** – Mostly to update existing data
- **DELETE** – Mostly to remove data



The slide features a light gray background with decorative white line art of leaves and branches in the corners. The top-left and top-right corners have clusters of elongated leaves. The bottom-left and bottom-right corners have stylized, rounded leaf shapes. The central text is framed by these decorative elements.

# `requests` Module

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SIMPLE API FOLLOWING REST PRINCIPLES



# `requests` Module

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Module that handles **`HTTP`** interactions.

Using guide? Just

1. Install using `pip install requests``
2. Import and use...

# `requests` Module

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Example of "HTTP GET Request" using `requests`



app.py

```
1 import requests
2
3 resp = requests.get('https://httpbin.org/')
4
5 print(resp.content)
```



The background of the slide is a light gray color. On the left side, there is a decorative pattern of stylized leaves. These leaves are white with thin white outlines and are arranged in a way that they appear to be floating or scattered. Some leaves are simple ovals, while others are more complex, with multiple lobes or segments. The leaves are oriented in various directions, creating a sense of movement and depth.

# Thank you

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