# Date & Time JSON API

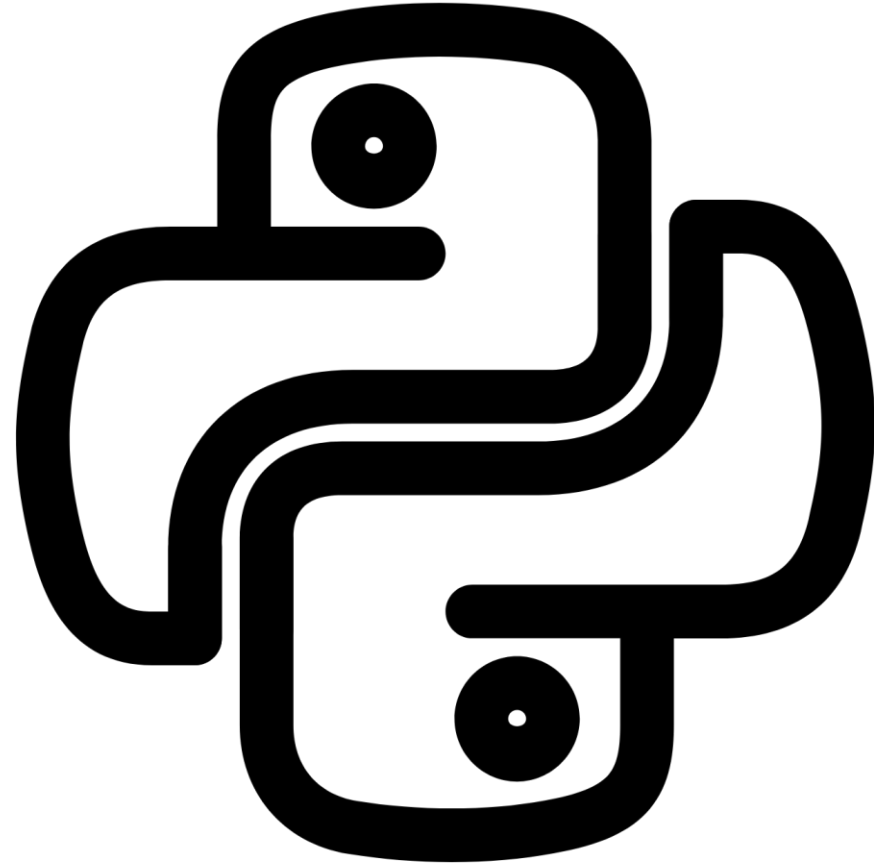- Abdullah Zayed

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# Agenda

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Date & Time

JSON

API

HTTP Request

REST API & `requests`

# Date & Time
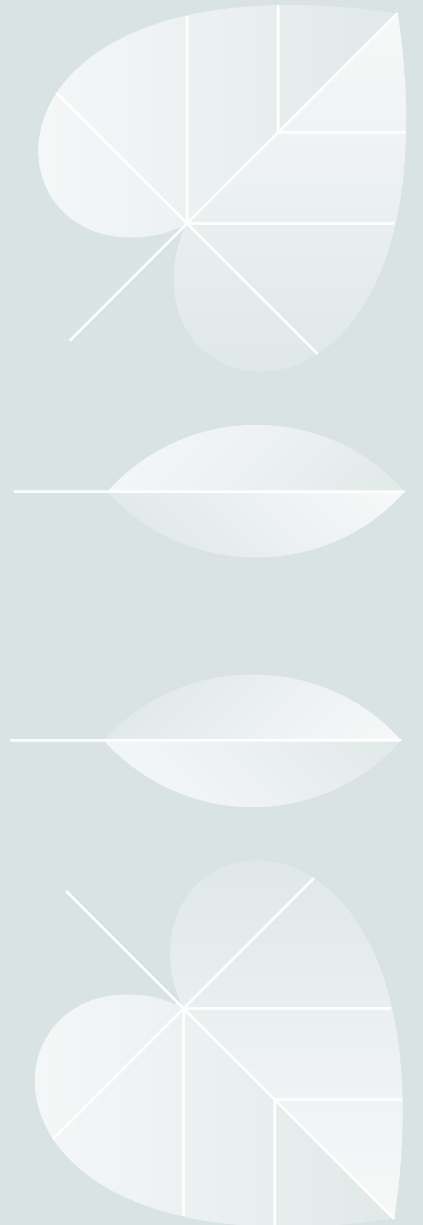
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HANDLING DATE & TIME IN A FUN WAY

# Date & Time

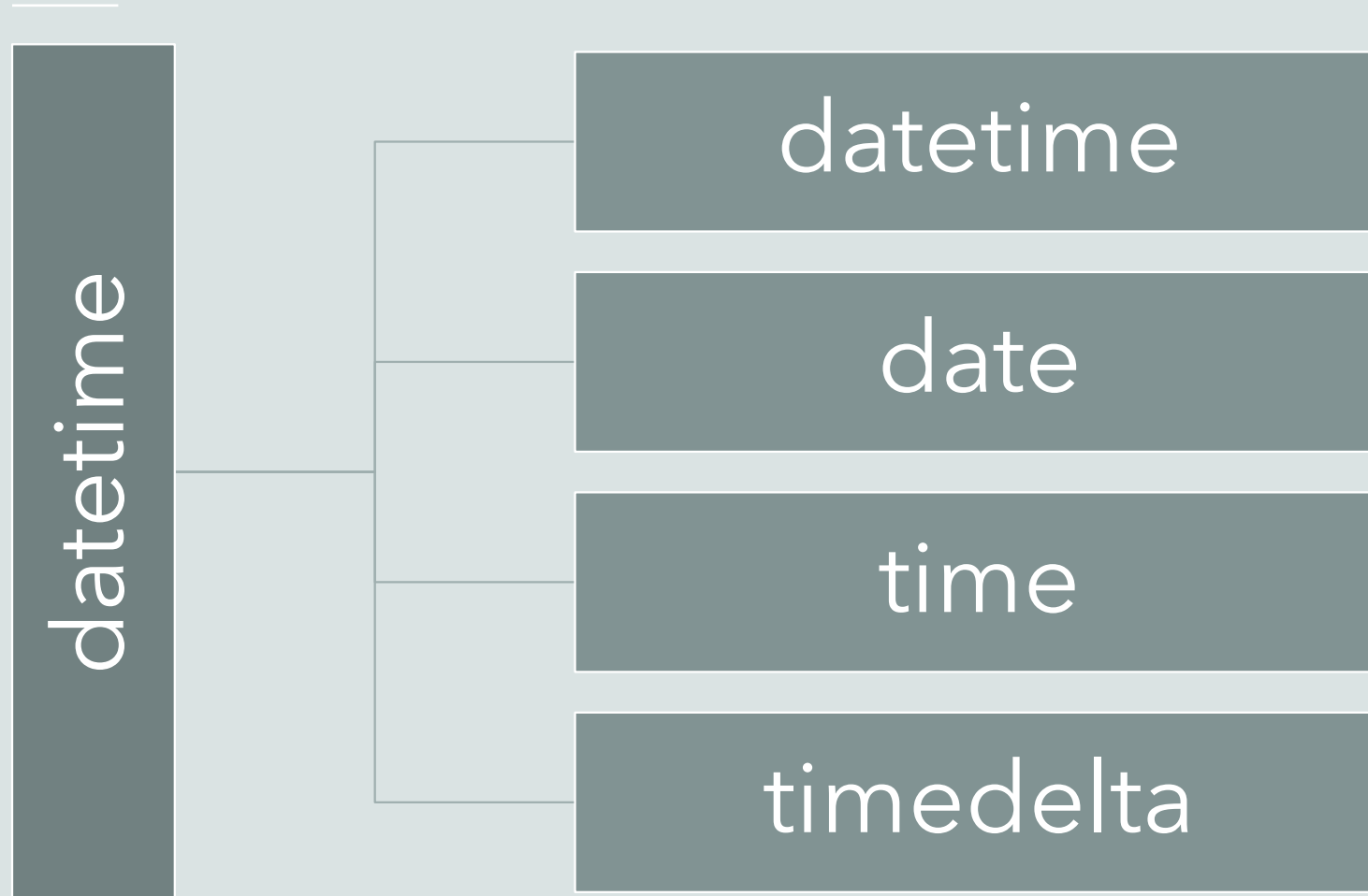Manage Date & Time related functionalities using the built-in `**datetime**` module.

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

app.py

# Date & Time



datetime

- datetime
- date
- time
- timedelta

# JSON

SIMPLIFIED + TEXT FORMATTED MIX OF DICTIONARY & LIST

# API

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INTERFACE TO COMMUNICATE WITH

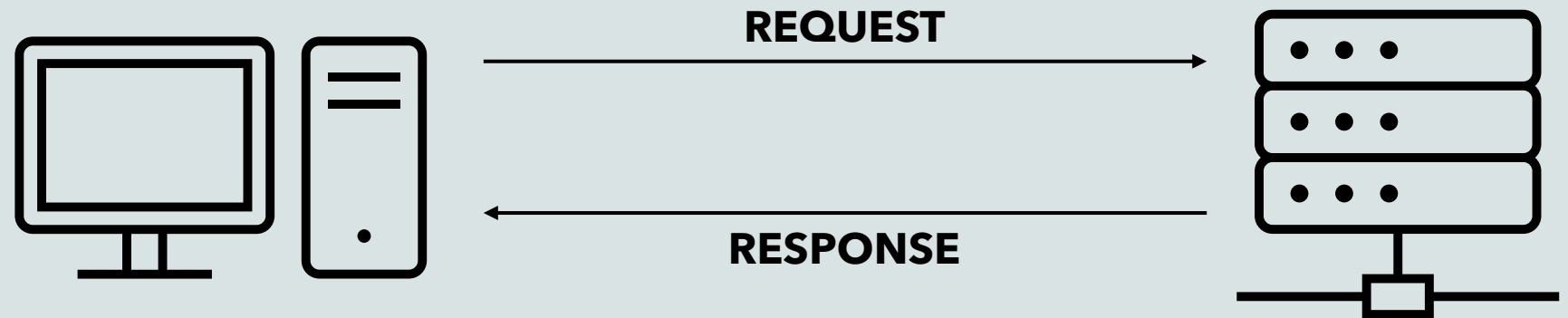# HTTP
# Request - Response

JUST SIMPLE HYPER TEXT TRANSFER PROTOCOL

# HTTP Request - Response

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

**Response** is what the client got.



REQUEST

RESPONSE

# HTTP Request – Response

Request

Response

| POST / HTTP/1.1 | ← Start line → | HTTP/1.1 403 Forbidden |
| Host: developer.mozilla.org | | Server: Apache |
| User-Agent: curl/8.6.0 | | Date: Fri, 21 Jun 2024 12:52:39 GMT |
| Accept: */* | ← Headers → | Content-Length: 678 |
| Content-Type: application/json | | Content-Type: text/html |
| Content-Length: 345 | | Cache-Control: no-store |

← Empty line →

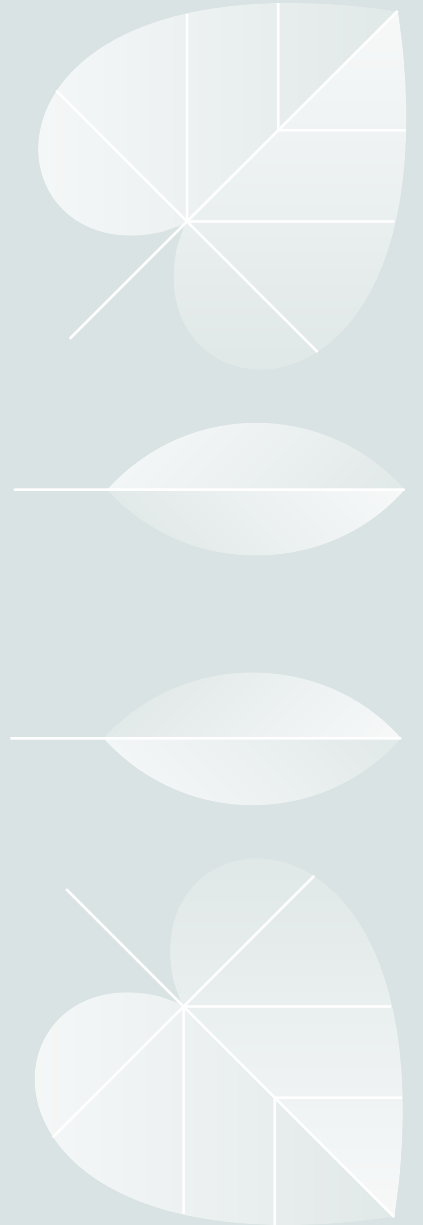| { | | <!DOCTYPE html> |
| "data": "ABC123" | ← Body → | <html lang="en"> |
| } | | (more data…) |

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# REST API

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SIMPLE API FOLLOWING REST PRINCIPLES

# REST API

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

# `requests` Module

SIMPLE API FOLLOWING REST PRINCIPLES

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# `requests` Module

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

Using guide? Just

1. Install using `pip install requests`

2. Import and use...

# `requests` Module

Example of "HTTP GET Request" using `requests`

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

# Thank you

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