Lecture: API

Application Programming interfaces

postocole for communication set

Application 1

Application 2

component - 2 of application application application

Info rep in

JSON: Java script expect notation

["origin": "Tokyo"
"destination": "Shanghai"

like

easy for humans and computers to read.

'duration": 185

(G)

-eg [" Alice", "Bob"] list like

different URLS --- to set to diff

(nested)

end points - -

/flights get API response of all 4 Plights get API response for (flights) 28 flight 28 .get info - add new info -> update info any webboouser search is = HTTP methods get reg (set in fo) GET default (add new info) POST Creplace uf) PUT (up date in 6) PATCH (delete ufo) DELETE requests (LAppor 1/2cash) import requests def main (): nes = requests o get ('_url_") print (res. text)

f __name__ == "__main__":

(exubo API example fixer. io on the internet)

Foregon exchange rate into

JSON response...

data = res. json() response syed

point (data)

Status codes

if res. Status_code 1 = 200. raise Exception ("error in API")

 $2\infty \leftarrow \circ \kappa$ 201 Created

Forbidden

404
Not Found

405
method not allowed

422
Unprocessable entity

we are able to understand rep

when still not able to process it---

worting your API

from flask import isonify

@ app. route ("/api/flights) < int:flight_id>")

def flight_api (flight_id):

reburn jsonify (python-dict), status

of not specified, by default it

API Leys

- rate limiting (restrict API access to users---)
- -> Users regular and get an API key
- servers will know when getting a request, what the user's ARI key
- _s so it can keep a tally 8% how many requests an API key is making