Python API Cheat Sheet

Python API Cheat Sheet (Standard Library Only)

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1. HTTP Requests using urllib
from urllib import request, parse
# Simple GET request
url = 'http://localhost:8000/data'
response = request.urlopen(url)
print(response.read().decode())
# POST request with data
data = parse.urlencode({'name': 'Alice', 'age': 30}).encode()
req = request.Request('http://localhost:8000/submit', data=data)
resp = request.urlopen(req)
print(resp.read().decode())
2. Parsing JSON
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import json
json_string = '{"name": "Bob", "age": 25}'
data = json.loads(json_string)
print(data['name'])
# Convert Python dict to JSON string
person = {'name': 'Eve', 'age': 40}
json_data = json.dumps(person)
3. Parsing XML (ElementTree)
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tree = ET.parse('data.xml') root = tree.getroot() print(root.tag, root.attrib) for child in root: print(child.tag, child.attrib) 4. Simulating an API Server (http.server) from http.server import BaseHTTPRequestHandler, HTTPServer class SimpleHandler(BaseHTTPRequestHandler): def do_GET(self): self.send_response(200) self.send_header('Content-type', 'application/json') self.end_headers() self.wfile.write(b'{"message": "Hello from local server!"}') httpd = HTTPServer(('localhost', 8000), SimpleHandler) httpd.serve_forever() 5. Useful HTTP Status Codes 200 OK - Request successful 201 Created - New resource created 400 Bad Request- Malformed request 404 Not Found - Resource not found 500 Server Err - Internal error on server

import xml.etree.ElementTree as ET

End of Cheat Sheet.