

FileEditSelectionViewGoRun...<=>ICS32

EXPLORER

ICS32

assignments

a4

> __pycache__

a4.py

ds_client.py

ds_protocol.py

file_manager.py

LastFM.py

OpenWeather.py

Profile.py

test.py

test2.py

ui.py

WebAPI.py

a4tests

lex.dsu

a5

labs

notes

projects

wp1

wp2

wp3

wp4

> __pycache__

api.py

earth.py

fileio.py

marsrover.py

README.txt

wp4.py

tutorials

ml.py

numpytest.py

shit.py

urls.txt

waveform.vcd

OUTLINE

wp4.py M

marsrover.py M

earth.py M

parse_data

13 # https://api.nasa.gov/EPIC/api/

14

15 # BASE URL

16 # https://epic.gsfc.nasa.gov/arch

17

18 def download_url():

19 url = 'https://api.nasa.gov/EPIC/api/'

20 # url = 'https://api.nasa.gov/EPIC/api/'

21 response = requests.get(url)

22 if response.status_code == 200:

23 data = response.json()

24 return data

25 else:

26 print('Failed to get data')

27

28

29 def parse_data(data: dict) -> None:

30 base_url = 'https://epic.gsfc.nasa.gov/archive/natural/'

31

32 # Construct full image URLs

33 image_urls = [f'{base_url}{data["url"]}' for data in data["images"]]

34 # Store the URLs

35 store_urls(image_urls)

36

37 def display_imgs():

38 photolinks = retrieve_urls()

39 random_image_src = random.choice(photolinks)

40 response = requests.get(random_image_src)

41 img = mpimg.imread(BytesIO(response.content))

42 plt.imshow(img)

43 plt.show()

Figure 1

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

SERIAL MONITOR

To view images from the Mars Rover, enter 'Mars'.

To view images from the Earth Polychromatic Imaging Camera, enter 'Earth'.

To quit, enter 'Q'

Your choice: earth

['https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305003633.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305022436.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305041238.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305060040.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305074842.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305093644.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305112447.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305131249.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305150051.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305164854.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305183656.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305202458.jpg', 'https://epic.gsfc.nasa.gov/archive/natural/2024/03/05/jpg/epic_1b_20240305221300.jpg']

master* 0 0 0 Python 3.11.8 64-bit (Microsoft Store)