UNIVERSIDAD AUTÓNOMA DE CHIHUAHUA

Facultad de Ingeniería

Ingeniería en Ciencias de la Computación

COMPUTO PARALELO Y DISTRIBUÍDO

1.19 Actividad 8: Python ThreadPool

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```python
import time
import logging
import requests
from concurrent.futures import ThreadPoolExecutor
from concurrent.futures import Future

logging.basicConfig(level=logging.DEBUG, format='%(threadName)s:
%(message)s',)
logging.getLogger("urllib3").setLevel(logging.WARNING)
logging.getLogger("requests").setLevel(logging.WARNING)

def show_pokemon_name(response):
    if response.status_code == 200:
        response_json = response.json()
        name = response_json.get('forms')[0].get('name')
        logging.info(f'El nombre del pokemon es {name}')


def show_user_name(response):
    if response.status_code == 200:
        response_json = response.json()
        name =
response_json.get('results')[0].get('name').get('first')
        logging.info(f'El nombre del usuario es {name}')

def generate_request(url):
    return requests.get(url)


if __name__ == '__main__':
    with ThreadPoolExecutor(max_workers=3, thread_name_prefix='Hilo')
as executor:

        future_pokemon = executor.submit(generate_request,
'https://pokeapi.co/api/v2/pokemon/1/')
        future_user = executor.submit(generate_request,
'https://randomuser.me/api')

        future_pokemon.add_done_callback(
```

```
        lambda response: show_pokemon_name(response.result())
    )
    future_user.add_done_callback(
        lambda response: show_user_name(response.result())
    )
```

```
(venv)
thead@adrigondo MINGW64 /c/Users/thead/Documents/UACH/Seventh Semester/Parallel and Distributing Computing/code
$ python PDC.September\ 13\,\ 2024.Activity\ 1.19.py
Hilo_0: El nombre del pokemon es bulbasaur
Hilo_1: El nombre del usuario es Jim
```