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A01382039

Github Permalink:

https://github.com/SebastianAri/Quality/tree/47754954a5940fe402df57caa92502cbd3937692/A01382039_A5



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Quality



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185 lines (185 loc) · 5.53 KB

```
In [1]: import json
import time
```

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```
Load JSON data from a file.
"""
try:
    with open(filename, 'r', encoding='utf-8') as file:
        data = json.load(file)
    return data
except FileNotFoundError:
    print(f"Error: File '{filename}' not found.")
    return {}
except json.JSONDecodeError:
    print(f"Error: Invalid JSON format in '{filename}'.")
    return {}

def similar(a, b):
    """
    Calculate the similarity ratio between two strings.
    """
    return SequenceMatcher(None, a, b).ratio()

def compute_total_cost(price_catalogue, sales_record):
    """
    Compute the total cost of sales.
    """
    total_cost = 0
    for sale in sales_record:
        product_name = sale["Product"]
        match_found = False
        for catalog_product in price_catalogue:
            similarity = similar(product_name, catalog_product["title"])
            if similarity >= 0.9:
                price = catalog_product["price"]
                quantity = sale["Quantity"]
                total_cost += price * quantity
                match_found = True
                break
        if not match_found:
            print(f"Warning: No match found for product '{product_name}' in price catalogue.")
    return total_cost

def main(sales_record_file, price_catalogue_file='TC1.ProductList.json'):
    """
    Main function to compute total sales cost.
    """
    start_time = time.time()

    price_catalogue = load_json_file(price_catalogue_file)
    sales_record = load_json_file(sales_record_file)

    total_cost = compute_total_cost(price_catalogue, sales_record)

    end_time = time.time()
```

```
elapsed_time = end_time - start_time

print(f"Total cost of sales: ${total_cost:.2f}")
print(f"Time elapsed: {elapsed_time:.2f} seconds")

with open("SalesResults.txt", "w", encoding='utf-8') as results_file:
    results_file.write(f"Total cost of sales: ${total_cost:.2f}\n")
    results_file.write(f"Time elapsed: {elapsed_time:.2f} seconds\n")
```

In [7]: `main('TC1.Sales.json')`

```
Total cost of sales: $2481.86
Time elapsed: 0.05 seconds
Total cost of sales: $166568.23
Time elapsed: 0.04 seconds
```

In [3]: `main('TC2.Sales.json')`

```
Total cost of sales: $166568.23
Time elapsed: 0.09 seconds
```

In [4]: `main('TC3.Sales.json')`

```
Warning: No match found for product '          Elotes' in price catalogue.
Warning: No match found for product '          Frijoles' in price catalogue.
Total cost of sales: $165235.37
Time elapsed: 0.10 seconds
```

In [5]: `# pylint: disable = C0304`

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In [1]:

`!pip install flake8`

Requirement already satisfied: flake8 in /usr/local/lib/python3.10/dist-packages (7.0.0)
Requirement already satisfied: mccabe<0.8.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from flake8) (0.7.0)
Requirement already satisfied: pycodestyle<2.12.0,>=2.11.0 in /usr/local/lib/python3.10/dist-packages (from flake8) (2.11.1)
Requirement already satisfied: pyflakes<3.3.0,>=3.2.0 in /usr/local/lib/python3.10/dist-packages (from flake8) (3.2.0)

In [2]:

`!pip install pylint`

Requirement already satisfied: pylint in /usr/local/lib/python3.10/dist-packages (3.0.3)
Requirement already satisfied: platformdirs>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from pylint) (4.2.0)
Requirement already satisfied: astroid<=3.1.0-dev0,>=3.0.1 in /usr/local/lib/python3.10/dist-packages (from pylint) (3.0.3)
Requirement already satisfied: isort!=5.13.0,<6,>=4.2.5 in /usr/local/lib/python3.10/dist-packages (from pylint) (5.13.2)
Requirement already satisfied: mccabe<0.8,>=0.6 in /usr/local/lib/python3.10/dist-packages (from pylint) (0.7.0)
Requirement already satisfied: tomlkit>=0.10.1 in /usr/local/lib/python3.10/dist-packages (from pylint) (0.12.3)
Requirement already satisfied: dill>=0.2 in /usr/local/lib/python3.10/dist-packages (from pylint) (0.3.8)
Requirement already satisfied: tomli>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from pylint) (2.0.1)
Requirement already satisfied: typing-extensions>=4.0.0 in /usr/local/lib/python3.10/dist-packages (from astroid<=3.1.0-dev0,>=3.0.1->pylint) (4.9.0)

In [11]:

`!pylint computesales.py`

Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

