Tecnológico de Monterrey Maestría en Inteligencia Artificial Aplicada Pruebas de Software y aseguramiento de la calidad

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Introducción

El presente trabajo de la asignatura de pruebas de software y aseguramiento de la calidad de la maestría en Inteligencia Artificial Aplicada del Tecnológico de Monterrey tiene como finalidad aplicar análisis estático.

1. Implementar los programas en Python

Se implementó el programa 'compute_sales.py'.

```
"""Program that read two json file inputs. The first
    input contains the price and the second the quantity,
    the program calculate the sales
    import json
   import time
    import sys
10 pdef load json file (file path):
        """Function that read a json. The two json files
        accepted for this program are: one of prices and
14
15
        with open (file path, 'r', encoding='utf-8') as file:
16
           data = json.load(file)
        return data
18
20 |def calculate_total_cost(catalogue, sales):
        """Function that does the product between two json
        files to get the sales
        total cost = 0
```

2. Estándar de codificación PEP-8

Se siguió el estándar de codificación PEP-8, considerando docstrings, indentation, etc.

```
def main():
40
        """Function that contains the logic of the program.
        Use the two arguments in the function
41
42
        calculate total cost and print the result on the screen"""
43
        if len(sys.argv) != 3:
            print("Usage: python computeSales.py priceCatalogue.json \
44
                   salesRecord.json")
45
46
            sys.exit(1)
47
48
        catalogue file = sys.argv[1]
49
        sales_file = sys.argv[2]
        # Load catalogue and sales data
        catalogue = load_json_file(catalogue_file)
        sales = load json file(sales file)
54
        # Calculate total cost
56
57
        start_time = time.time()
        total cost = calculate total cost (catalogue, sales)
        end time = time.time()
60
        # Print results to screen
```

3. Verificación de la ejecución de cada programa

Se verificó la ejecución para 'compute_sales.py'.

TC1:

```
C:\Users\1045000\Documents\tec\pruebas_software\S>python compute_sales.py TCI.ProductList.json TCI.Sales.json
TC2:

C:\Users\1045000\Documents\tec\pruebas_software\S>python compute_sales.py TCI.ProductList.json TC2.Sales.json
TC3:

C:\Users\1045000\Documents\tec\pruebas_software\S>python compute_sales.py TCI.ProductList.json TC2.Sales.json
TC3:

C:\Users\1045000\Documents\tec\pruebas_software\S>python compute_sales.py TCI.ProductList.json TC3.Sales.json
TC3:

C:\Users\1045000\Documents\tec\pruebas_software\S>python compute_sales.py TCI.ProductList.json TC3.Sales.json
```

4. Instalación de flake8

```
Chilsers/108/5860/python -m pip install flake8
Collecting flakes
Collecting
```

5. Verificación de los programas con pylint

Verificación de 'compute_sales.py' con pylint.

```
C:\Users\1@45869\Documents\tec\pruebas_software\5>python -m pylint compute_sales.py

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

6. Verificación de los programas con flake8

Verificación de 'compute_sales.py' con flake8.

```
Compute_sales.py 11 = 300 agented 2 plans lines, found 1
compute_sales.py 11 = 300 agented 2 plans lines, found 1
compute_sales.py 14 300 1 = 300 agented 2 plans lines, found 1
compute_sales.py 14 300 1220 unexpected spices around keypord / parameter equals
compute_sales.py 14 300 1220 unexpected spices around keypord / parameter equals
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```

Se corrigieron los detalles:

```
C:\Users\l045660\Documents\tec\pruebas.software\Sypthon -# flake8 compute_sales.py --statistics
C:\Users\l045660\Documents\tec\pruebas.software\Sypthon -# flake8 compute_sales.py --statistics
```

7. Liga del repositorio

https://github.com/janmenc/A01794067 A5.2

