Instituto Tecnológico y de Estudios Superiores Monterrey

Pruebas de software y aseguramiento de la calidad

Actividad 6.2
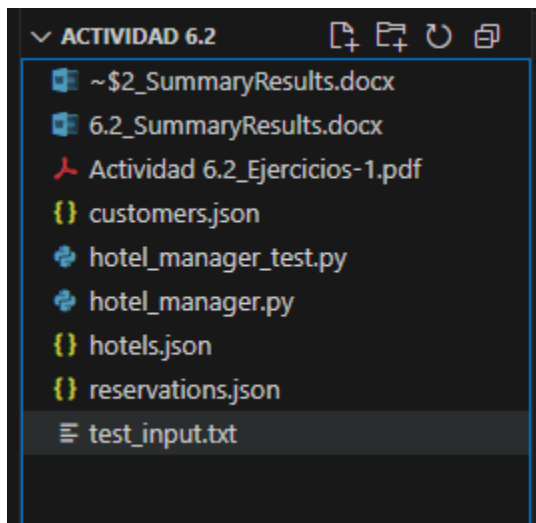Manuel Alejandro Alonso Troche
A01700316

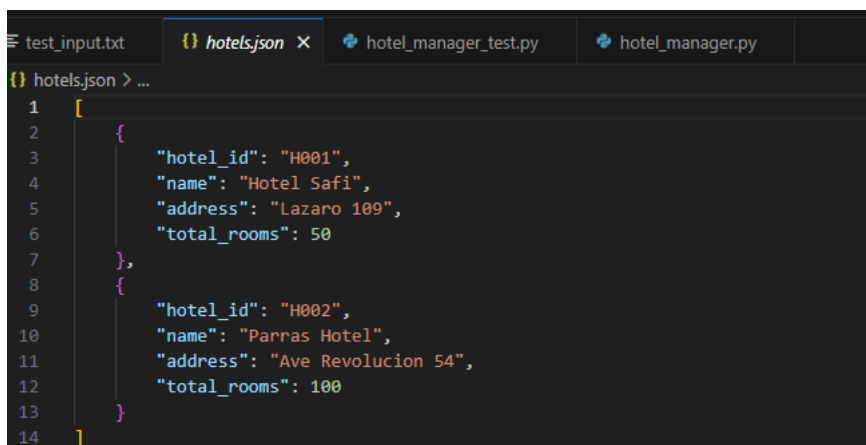A continuación, se muestran las evidencias del ejercicio:

P1 hotel_manager.py

Run

```
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2> python hotel_manager.py test_input.txt
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2>
```

```
∨ ACTIVIDAD 6.2
    ~$2_SummaryResults.docx
    6.2_SummaryResults.docx
    Actividad 6.2_Ejercicios-1.pdf
    {} customers.json
    hotel_manager_test.py
    hotel_manager.py
    {} hotels.json
    {} reservations.json
    test_input.txt
```

Hotels.json:

```json
[
    {
        "hotel_id": "H001",
        "name": "Hotel Safi",
        "address": "Lazaro 109",
        "total_rooms": 50
    },
    {
        "hotel_id": "H002",
        "name": "Parras Hotel",
        "address": "Ave Revolucion 54",
        "total_rooms": 100
    }
]
```

Customer.json

Reservations.json

Pylint análisis:

Inicial:

```
************* Module hotel_manager
hotel_manager.py:1:0: C0114: Missing module docstring (missing-module-docstring)
hotel_manager.py:6:0: C0115: Missing class docstring (missing-class-docstring)
hotel_manager.py:13:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_manager.py:21:17: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
hotel_manager.py:27:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
hotel_manager.py:6:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:31:0: C0115: Missing class docstring (missing-class-docstring)
hotel_manager.py:37:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_manager.py:38:20: W0212: Access to a protected member _load_data of a client class (protected-access)
hotel_manager.py:40:8: W0212: Access to a protected member _save_data of a client class (protected-access)
hotel_manager.py:31:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:43:0: C0115: Missing class docstring (missing-class-docstring)
hotel_manager.py:49:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_manager.py:50:23: W0212: Access to a protected member _load_data of a client class (protected-access)
hotel_manager.py:52:8: W0212: Access to a protected member _save_data of a client class (protected-access)
hotel_manager.py:43:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:55:0: C0115: Missing class docstring (missing-class-docstring)
hotel_manager.py:57:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_manager.py:62:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
hotel_manager.py:55:0: R0903: Too few public methods (1/2) (too-few-public-methods)

---------------------------------------------------------------
Your code has been rated at 6.97/10 (previous run: 6.97/10, +0.00)
```

Final: (los comentarios que arroja son por la cantidad de metodos, de esto podriamos expandirnos más pero lo dejo simple con la funcionalidad que se solicita obteniendo un 8.79/10)

```
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2> pylint hotel_manager.py
************* Module hotel_manager
hotel_manager.py:13:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:55:20: W0212: Access to a protected member _load_data of a client class (protected-access)
hotel_manager.py:57:8: W0212: Access to a protected member _save_data of a client class (protected-access)
hotel_manager.py:44:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:71:23: W0212: Access to a protected member _load_data of a client class (protected-access)
hotel_manager.py:73:8: W0212: Access to a protected member _save_data of a client class (protected-access)
hotel_manager.py:60:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_manager.py:76:0: R0903: Too few public methods (1/2) (too-few-public-methods)

-----------------------------------------------------------------
Your code has been rated at 8.79/10 (previous run: 6.97/10, +1.82)
```

Flake8 análisis:

No errors

```
hotel_manager.py:4:41: W291 trailing whitespace
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2> flake8 hotel_manager.py
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2>
```

Resultados de coverage arriba del 85%:

```
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2> coverage run --source=hotel_manager -m unittest hotel_manager_test.py
.
-----------------------------------------------------------------
Ran 1 test in 0.029s

OK
PS C:\Users\maalo\Documents\Maestria\Trimestre 5\Sw quality\Actividad 6.2> coverage report -m
Name                Stmts   Miss  Cover   Missing
---------------------------------------------------
hotel_manager.py      69      9    87%   83-84, 90-91, 104, 108-112
---------------------------------------------------
TOTAL                 69      9    87%
```