Instituto Tecnológico y de Estudios Superiores de Monterrey

Maestría en Inteligencia Artificial Aplicada

TC 4017 Prueba de software y aseguramiento de la calidad

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Enlace para el repositorio de Git requerido:

https://github.com/ModoJorge/Mineria-Datos-

Reservation system:

- Se ejecuto el código desde la línea de comandos, mostrando los siguientes resultados:

```
Name                        Stmts   Miss  Cover
-----------------------------------------------
hotel_management.py            49      1    98%
test_hotel_management.py       78      1    99%
-----------------------------------------------
TOTAL                         127      2    98%
```

- Se ejecuto Coverage report, mostrando un 98%:

Coverage report: 98%

coverage.py v7.4.1, created at 2024-02-18 19:34 -0600

Module	statements	missing	excluded	coverage
hotel_management.py	49	1	0	98%
test_hotel_management.py	78	1	0	99%
Total	127	2	0	98%

- Se ejecuto Pylint en hotel_management, test_hotel_management, test_hotel_management_negative, mostrando los siguientes errores:

```
************* Module hotel_management
hotel_management.py:38:0: C0303: Trailing whitespace (trailing-whitespace)
hotel_management.py:1:0: C0114: Missing module docstring (missing-module-docstring)
hotel_management.py:5:0: C0115: Missing class docstring (missing-class-docstring)
hotel_management.py:11:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:14:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:21:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:31:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:39:0: C0115: Missing class docstring (missing-class-docstring)
hotel_management.py:45:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:39:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_management.py:52:0: C0115: Missing class docstring (missing-class-docstring)
hotel_management.py:57:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:52:0: R0903: Too few public methods (1/2) (too-few-public-methods)
hotel_management.py:63:0: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:64:9: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
hotel_management.py:67:0: C0116: Missing function or method docstring (missing-function-docstring)
hotel_management.py:68:9: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

-----------------------------------
Your code has been rated at 6.53/10
```

```
************* Module test_hotel_management
test_hotel_management.py:1:0: C0114: Missing module docstring (missing-module-docstring)
test_hotel_management.py:4:0: C0115: Missing class docstring (missing-class-docstring)
test_hotel_management.py:5:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:10:0: C0115: Missing class docstring (missing-class-docstring)
test_hotel_management.py:11:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:16:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:23:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:30:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:35:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:49:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:66:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:77:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:84:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:95:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management.py:97:12: W0612: Unused variable 'loaded_hotel' (unused-variable)

-----------------------------------
Your code has been rated at 8.08/10
```

```
************* Module test_hotel_management_negative
test_hotel_management_negative.py:23:0: C0301: Line too long (118/100) (line-too-long)
test_hotel_management_negative.py:44:0: C0301: Line too long (118/100) (line-too-long)
test_hotel_management_negative.py:48:61: C0303: Trailing whitespace (trailing-whitespace)
test_hotel_management_negative.py:49:0: C0301: Line too long (106/100) (line-too-long)
test_hotel_management_negative.py:52:0: C0303: Trailing whitespace (trailing-whitespace)
test_hotel_management_negative.py:1:0: C0114: Missing module docstring (missing-module-docstring)
test_hotel_management_negative.py:8:0: C0115: Missing class docstring (missing-class-docstring)
test_hotel_management_negative.py:15:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management_negative.py:21:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management_negative.py:28:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management_negative.py:34:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management_negative.py:37:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
test_hotel_management_negative.py:43:4: C0116: Missing function or method docstring (missing-function-docstring)
test_hotel_management_negative.py:46:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

-----------------------------------
Your code has been rated at 6.11/10
```

- Después de realizar correcciones en hotel_management.py, se obtuvo un resultado de 10 sobre 10, lo cual se podría decir que es relativamente alto.

```
-----------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.59/10, +0.41)
```

- Después de realizar correcciones en test_hotel_management.py, se obtuvo un resultado de 10 sobre 10, lo cual se podría decir que es relativamente alto:

```
-----------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.87/10, +0.13)
```

- Después de realizar correcciones en test_hotel_management_negative.py, se obtuvo un resultado de 10 sobre 10, lo cual se podría decir que es relativamente alto:

```
-----------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.44/10, +0.56)
```

- Se ejecutó falke8 en hotel_management, test_hotel_management, test_hotel_management_negative, mostrando los siguientes errores:

```
hotel_management.py:1:80: E501 line too long (88 > 79 characters)
hotel_management.py:5:1: E302 expected 2 blank lines, found 1
hotel_management.py:28:80: E501 line too long (86 > 79 characters)
hotel_management.py:38:80: E501 line too long (86 > 79 characters)
hotel_management.py:40:80: E501 line too long (83 > 79 characters)
hotel_management.py:42:80: E501 line too long (81 > 79 characters)
hotel_management.py:44:1: E302 expected 2 blank lines, found 1
hotel_management.py:61:1: E302 expected 2 blank lines, found 1
hotel_management.py:76:1: E302 expected 2 blank lines, found 1
hotel_management.py:81:1: E302 expected 2 blank lines, found 1
```

```
test_hotel_management.py:5:1: E302 expected 2 blank lines, found 1
test_hotel_management.py:13:1: E302 expected 2 blank lines, found 1
test_hotel_management.py:65:80: E501 line too long (96 > 79 characters)
test_hotel_management.py:68:80: E501 line too long (85 > 79 characters)
test_hotel_management.py:113:1: E305 expected 2 blank lines after class or function definition, found 1
```

```
test_hotel_management_negative.py:9:1: E302 expected 2 blank lines, found 1
test_hotel_management_negative.py:13:80: E501 line too long (82 > 79 characters)
test_hotel_management_negative.py:15:80: E501 line too long (87 > 79 characters)
test_hotel_management_negative.py:16:80: E501 line too long (93 > 79 characters)
test_hotel_management_negative.py:21:80: E501 line too long (87 > 79 characters)
test_hotel_management_negative.py:28:80: E501 line too long (100 > 79 characters)
test_hotel_management_negative.py:36:80: E501 line too long (92 > 79 characters)
test_hotel_management_negative.py:45:80: E501 line too long (93 > 79 characters)
test_hotel_management_negative.py:51:5: E303 too many blank lines (2)
```

- Realizamos todas las correcciones señaladas por flake8 en hotel_management.py, test_hotel_management.py y test_hotel_management.py hasta que no mostro errores el mismo.