



18-2-2024

6.2 Ejercicio de programación 3 y pruebas de unidad

Pruebas de software y aseguramiento de la

Enlace para el repositorio de Git requerido:

https://github.com/A01793670/A01793670_A6.2.git

Reservation system:

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

```
Administrador: Símbolo del sistema
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>coverage run -m unittest test_hotel_management_negative
.....
Ran 5 tests in 0.006s
OK
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>coverage run -m unittest test_hotel_management
.....
Ran 11 tests in 0.008s
OK
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>coverage report
Name                               Stmts  Miss  Cover
-----
hotel_management.py                 49      1   98%
test_hotel_management.py            78      1   99%
TOTAL                             127      2   98%
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>coverage html
Wrote HTML report to +J8;;file:///C:/Users/Brayan/Desktop/Tec_2024_I_Tri/Software/Actividad 6.2/htmlcov/index.htmlhtmlcov/index.html+J8;;
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>
```

- 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%

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

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

```
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint hotel_management.py
***** 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
```

```
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint test_hotel_management.py
***** 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
```

```
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint test_hotel_management_negative.py
***** 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.

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint hotel_management.py

-----
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:

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint test_hotel_management.py

-----
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:

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>pylint test_hotel_management_negative.py

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

- Se ejecuto flake8 en hotel_management, test_hotel_management, test_hotel_management_negative, mostrando los siguientes errores:

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 hotel_management.py
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
```

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 test_hotel_management.py
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
```

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 test_hotel_management_negative.py
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, hasta que no mostro errores el mismo.

```
CA: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 hotel_management.py
C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>
```

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

```
Ca: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 test_hotel_management.py

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>
```

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

```
Ca: Administrador: Símbolo del sistema

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>flake8 test_hotel_management_negative.py

C:\Users\Brayan\Desktop\Tec_2024_I_Tri\Software\Actividad 6.2>
```