

# Evidencias de los tests

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.env iM, M requirements.txt test_usuarios.py U test_cuentas.py U test_parametros.py U
app > tests > test_usuarios.py > ...
1 import pytest
2 from fastapi.testclient import TestClient
3 from unittest.mock import patch, AsyncMock
4 import sys
5 import os
6
7 # Agregar el directorio raíz al path si es necesario
8 sys.path.insert(0, os.path.dirname(os.path.dirname(os.path.abspath(__file__))))
9
10 try:
11     from app.main import app
12 except ImportError:
13     # Fallback si hay problemas con el import
14     from fastapi import FastAPI
15     app = FastAPI()
16
17 client = TestClient(app)
18
19 class TestUsuariosEndpoints:
20     """Tests para las rutas de usuarios con mocks"""
21
22     @pytest.fixture
23     def mock_usuario(self):
24         return {
25             "id": 1,
26             "nombre": "Juan Pérez",
27             "correo": "juan.perez@email.com",
28             "rol_id": 1
29         }
30
31     @pytest.fixture
32     def mock_usuario_create(self):
33         return {
34             "id": 1,
35             "nombre": "Juan Pérez",
36             "correo": "juan.perez@email.com",
37             "rol_id": 1
38         }
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```

```

app > tests > test_parametros.py > ...
1 import pytest
2 from fastapi.testclient import TestClient
3 from unittest.mock import patch, MagicMock
4 from app.main import app
5
6 client = TestClient(app)
7
8 class TestParametrosEndpoints:
9     """Tests para las rutas de parámetros con mocks"""
10
11     @pytest.fixture
12     def mock_parametro(self):
13         return {
14             "id": 1,
15             "clave": "TEST_PARAM",
16             "valor": "valor_test",
17             "descripcion": "Parámetro de prueba"
18         }
19
20     @patch("app.crud.parametro.create_parametro")
21     @patch("app.crud.parametro.get_parametro_by_clave")
22     def test_crear_parametro_exitoso(self, mock_get_by_clave, mock_crear_parametro, mock_parametro):
23         """Test para crear un parámetro correctamente"""
24         mock_get_by_clave.return_value = None # No existe parámetro con esa clave
25         mock_crear_parametro.return_value = mock_parametro
26
27         payload = {
28             "clave": "TEST_PARAM",
29             "valor": "valor_test",
30             "descripcion": "Parámetro de prueba"
31         }
32
33         response = client.post("/parametros", json=payload)
34         assert response.status_code == 201
35         data = response.json()

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

cmd + v + + - - -

[FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).

return self.router.on\_event(event\_type)

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html

6 passed, 21 warnings in 1.62s

(venv) E:\Universidad\Vscode\Mis Practicas\SE\_Proyecto:

```

app > tests > test_clientes.py > get_cliente
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def get_cliente():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         response = await client.post("/clientes/", json={
11             "nombre": "Luis Rodriguez",
12             "documento_identidad": "TEST001",
13             "correo": "luis@test.com",
14             "telefono": "0999999999"
15         })
16         assert response.status_code == 200
17         data = response.json()
18         assert data["nombre"] == "Luis Rodriguez"
19         assert data["documento_identidad"] == "TEST001"
20         assert data["correo"] == "luis@test.com"
21         assert data["telefono"] == "0999999999"
22
23

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + v + + - - -

.venv\lib\site-packages\pydantic\\_internal\\_generate\_schema.py:293: PydanticDeprecatedSince20: 'json\_encoders' is deprecated. See https://docs.pydantic.dev/2.11/concepts/serialization/#custom-serializers for alternatives. Deprecated in Pydantic V2.0 to be removed in V3.0. See Pydantic V2 Migration Guide at https://errors.pydantic.dev/2.11/migration/warnings.warn(

app/main.py:9

C:\Users\livan\Documents\Github\SE\_Proyecto\app/main.py:9: DeprecationWarning: on\_event is deprecated, use lifespan event handlers instead.

Read more about it in the [FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).

@app.on\_event("startup")

.venv\lib\site-packages\fastapi\applications.py:4495

c:\Users\livan\Documents\Github\SE\_Proyecto\.venv\lib\site-packages\fastapi\applications.py:4495: DeprecationWarning: on\_event is deprecated, use lifespan event handlers instead.

Read more about it in the [FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).

return self.router.on\_event(event\_type)

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html

21 warnings in 1.03s

P5 C:\Users\livan\Documents\Github\SE\_Proyecto> coverage report --e

```
test_clientes.py U.U X requirements.txt Release Notes: 1.101.1 cliente.py ..models M,M cliente.py ..routers M
app > tests > test_clientes.py > ...
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def get_cliente():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         response = await client.post("/clientes/", json={
11             "nombre": "Luis Rodriguez",
12             "documento_identidad": "TEST001",
13             "correo": "luis@test.com",
14             "telefono": "0999999999"
15         })
16         assert response.status_code == 200
17         data = response.json()
18         assert data["nombre"] == "Luis Rodriguez"
19         assert data["documento_identidad"] == "TEST001"
20         assert data["correo"] == "luis@test.com"
21         assert data["telefono"] == "0999999999"
22
23
```

PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
app\schemas\reportes.py	55	0	100%	
app\schemas\reserva.py	15	0	100%	
app\schemas\usuario.py	13	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\reserva.py	15	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\reserva.py	15	0	100%	
app\schemas\usuario.py	13	0	100%	
app\tests\test_clientes.py	14	8	43%	9-21
-----				
TOTAL	1841	396	62%	
PS C:\Users\Ivan-Documents\GitHub\SE_Proyecto> [				

```
test_clientes.py U.U X requirements.txt Release Notes: 1.101.1 cliente.py ..models M,M cliente.py ..routers M
app > tests > test_clientes.py > ...
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def listar_clientes():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         crear = await client.post("/clientes/", json={
11             "nombre": "Ana Vega",
12             "documento_identidad": "TEST002",
13             "correo": "ana@test.com",
14             "telefono": "0888888888"
15         })
16         id_cliente = crear.json()["id"]
17
18         response = await client.get(f"/clientes/{id_cliente}")
19         assert response.status_code == 200
20         assert response.json()["nombre"] == "Ana Vega"
21
22
```

c:\Users\Ivan-Documents\GitHub\SE\_Proyecto\.venv\Lib\site-packages\pydantic\\_internal\\_generate\_schema.py:293: PydanticDeprecatedSince20: 'json\_encoders' is deprecated. See https://docs.pydantic.dev/2.11/concepts/serialization/#custom-serializers for alternatives. Deprecated in Pydantic V2.0 to be removed in V3.0. See Pydantic V2 Migration Guide at https://errors.pydantic.dev/2.11/migration/

warnings.warn()

app/main.py:9

C:\Users\Ivan-Documents\GitHub\SE\_Proyecto\app\main.py:9: DeprecationWarning: on\_event is deprecated, use lifespan event handlers instead.

Read more about it in the [FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).

@app.on\_event("startup")

.venv\Lib\site-packages\fastapi\applications.py:4495

c:\Users\Ivan-Documents\GitHub\SE\_Proyecto\.venv\Lib\site-packages\fastapi\applications.py:4495: DeprecationWarning: on\_event is deprecated, use lifespan event handlers instead.

Read more about it in the [FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).

return self.router.on\_event(event\_type)

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html

===== 21 warnings in 1.03s

PS C:\Users\Ivan-Documents\GitHub\SE\_Proyecto> [

```
test_clientes.py U,U X requirements.txt Release Notes: 1.101.1 cliente.py ..models M,M cliente.py ..routers M
app > tests > test_clientes.py > ...
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def listar_clientes():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         crear = await client.post("/clientes/", json={
11             "nombre": "Ana Vega",
12             "documento_identidad": "TEST002",
13             "correo": "ana@test.com",
14             "telefono": "0888888888"
15         })
16         id_cliente = crear.json()["id"]
17
18         response = await client.get(f"/clientes/{id_cliente}")
19         assert response.status_code == 200
20         assert response.json()["nombre"] == "Ana Vega"
21
22
```

PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
app\routers\egresos.py	13	2	85%	12, 16
app\routers\facturas.py	13	2	85%	12, 16
app\routers\habitacion.py	25	10	60%	13, 17, 21-24, 28-31
app\routers\ingresos.py	13	2	85%	12, 16
app\routers\pagos.py	13	2	85%	12, 16
app\routers\parametro.py	44	25	43%	17-18, 26-29, 37-40, 49-53, 63-71, 79-81
app\routers\reportes.py	39	17	56%	29, 46, 67, 86, 101, 119-128, 145-161
app\routers\reserva.py	19	6	66%	12, 16, 28-33
app\routers\usuario.py	41	21	46%	13-16, 20, 24-27, 32-35, 39-42, 46-49
app\schemas\__init__.py	0	0	100%	
app\schemas\cliente.py	14	0	100%	
app\schemas\cuenta.py	18	0	100%	
app\schemas\egresos.py	12	0	100%	
app\schemas\factura.py	16	0	100%	
app\schemas\habitacion.py	12	0	100%	
app\schemas\ingreso.py	13	0	100%	
app\schemas\pago.py	13	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\reserva.py	15	0	100%	
app\schemas\usuario.py	13	0	100%	
app\tests\test_clientes.py	12	0	50%	9-20
TOTAL				1039 394 62%

PS C:\Users\livan\Documents\Github\SE\_Proyecto>

```
test_clientes.py U,U X requirements.txt Release Notes: 1.101.1 cliente.py ..models M,M cliente.py ..routers M
app > tests > test_clientes.py > ...
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def listar_clientes():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         response = await client.get("/clientes/")
11         assert response.status_code == 200
12         data = response.json()
13         assert isinstance(data, list)
14         assert len(data) >= 1
15
```

c:\Users\livan\Documents\Github\SE\_Proyecto\venv\lib\site-packages\pydantic\\_internal\\_generate\_schema.py:293: PydanticDeprecatedSince20: 'json\_encoders' is deprecated. See https://docs.pydantic.dev/2.11/concepts/serialization/#custom-serializers for alternatives. Deprecated in Pydantic V2.0 to be removed in V3.0. See Pydantic V2 Migration Guide at https://errors.pydantic.dev/2.11/migration/warnings.warn()

app\main.py:9  
c:\Users\livan\Documents\Github\SE\_Proyecto\app\main.py:9: DeprecationWarning:  
on\_event is deprecated, use lifespan event handlers instead.  
  
Read more about it in the  
[FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).  
  
@app.on\_event("startup")  
  
..venv\lib\site-packages\fastapi\applications.py:4495  
c:\Users\livan\Documents\Github\SE\_Proyecto\venv\lib\site-packages\fastapi\applications.py:4495: DeprecationWarning:  
on\_event is deprecated, use lifespan event handlers instead.  
  
Read more about it in the  
[FastAPI docs for Lifespan Events](https://fastapi.tiangolo.com/advanced/events/).  
  
return self.router.on\_event(event\_type)  
  
-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html  
===== 21 warnings in 1.08s =====  
PS C:\Users\livan\Documents\Github\SE\_Proyecto>

```
test_clientes.py U U X requirements.txt Release Notes: 1.101.1 cliente.py _models M M cliente.py _routers M M
app > tests > test_clientes.py > ...
1 import pytest
2 from httpx import AsyncClient, ASGITransport
3 from app.main import app
4
5 transport = ASGITransport(app=app)
6
7 @pytest.mark.asyncio
8 async def listar_clientes():
9     async with AsyncClient(transport=transport, base_url="http://test") as client:
10         response = await client.get("/clientes/")
11         assert response.status_code == 200
12         data = response.json()
13         assert isinstance(data, list)
14         assert len(data) >= 1
15
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
app\routers\egresos.py 13 2 85% 12, 16
app\routers\facturas.py 13 2 85% 12, 16
app\routers\habitacion.py 25 10 60% 13, 17, 21-24, 28-31
app\routers\ingresos.py 13 2 85% 12, 16
app\routers\usuarios.py 13 2 85% 12, 16
app\routers\parametro.py 44 25 43% 17-18, 26-29, 37-40, 49-53, 63-71, 79-81
app\routers\reportes.py 39 17 56% 29, 46, 67, 86, 101, 119-128, 145-161
app\routers\reserva.py 19 6 68% 12, 16, 28-23
app\routers\usuario.py 41 21 49% 13-16, 20, 24-27, 32-35, 39-42, 46-49
app\schemas\init_.py 0 0 100%
app\schemas\cliente.py 14 0 100%
app\schemas\cuenta.py 18 0 100%
app\schemas\egreso.py 12 0 100%
app\schemas\factura.py 16 0 100%
app\schemas\habitacion.py 12 0 100%
app\schemas\ingreso.py 13 0 100%
app\schemas\pago.py 13 0 100%
app\schemas\parametro.py 16 0 100%
app\schemas\reportes.py 55 0 100%
app\schemas\reserva.py 15 0 100%
app\schemas\usuario.py 13 0 100%
app\tests\test_clientes.py 12 6 50% 9-14
TOTAL 1039 394 62%
PS C:\Users\Ivan\Documents\GitHub\SE Proyecto>
```

```
main.py test_reservas.py test_habitaciones.py test_ingresos.py U X test_egresos.py U
app > tests > test_ingresos.py > test_ingresosEndpoints > test_crear_ingreso_exitoso
11 class TestIngresosEndpoints:
26 def test_crear_ingreso_exitoso(self, mock_crear_ingreso, mock_ingreso):
27     """Test para crear un ingreso correctamente"""
28     mock_crear_ingreso.return_value = mock_ingreso
29
30     payload = {
31         "fecha": mock_ingreso["fecha"],
32         "monto": mock_ingreso["monto"],
33         "descripcion": mock_ingreso["descripcion"],
34         "reserva_id": mock_ingreso["reserva_id"]
35     }
36
37     response = client.post("/ingresos/", json=payload)
38
39     assert response.status_code == 200
40     data = response.json()
41     assert data["id"] == mock_ingreso["id"]
42     assert data["monto"] == mock_ingreso["monto"]
43     assert data["descripcion"] == mock_ingreso["descripcion"]
44     assert data["reserva_id"] == mock_ingreso["reserva_id"]
45
46 @patch("app.crud.ingreso.obtener_ingresos")
47 def test_listar_ingresos(self, mock_obtener_ingresos, mock_ingreso):
48     """Test para listar ingresos"""
49     mock_obtener_ingresos.return_value = [mock_ingreso]
50
51     response = client.get("/ingresos/")
52
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Sulay\Documents\GitHub\SE Proyecto> coverage run -m pytest app/tests/test_ingresos.py --disable-warnings
===== test session starts =====
platform win32 -- Python 3.13.3, pytest-8.4.1, pluggy-1.6.0
rootdir: C:\Users\Sulay\Documents\GitHub\SE Proyecto
plugins: anyio-4.9.0, asyncio-1.0.0, order-1.3.0
asyncio: mode=Mode.STRICT, asyncio_default_fixture_loop_scope=None, asyncio_default_test_loop_scope=function
collected 2 items

app\tests\test_ingresos.py .. [100%]

===== 2 passed, 21 warnings in 1.12s =====
PS C:\Users\Sulay\Documents\GitHub\SE Proyecto>
```

```
main.py test_reservas.py U test_habitaciones.py
app > tests > test_reservas.py > ...
1 import pytest
2 from fastapi.testclient import TestClient
3 from datetime import date, timedelta
4 from unittest.mock import patch
5
6 from app.main import app
7
8 client = TestClient(app)
9
10
11 class TestReservasEndpoints:
12     """Tests para las rutas de reservas con mocks"""
13
14     @pytest.fixture
15     def mock_reserva(self):
16         return {
17             "id": 1,
18             "cliente_id": 1,
19             "habitacion_id": 1,
20             "fecha_inicio": str(date.today()),
21             "fecha_fin": str(date.today() + timedelta(days=2)),
22             "estado": "reservada",
23             "fecha_reserva": str(date.today())
24         }
25
26     @patch("app.crud.reserva.crear_reserva")
27     def test_crear_reserva_exitoso(self, mock_crear_reserva, mock_reserva):
28         """Test para crear una reserva correctamente"""
29
30 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
31
32 PS C:\Users\Sulay\Documents\GitHub\SE_Proyecto> coverage run -m pytest app/tests/test_reservas.py --disable-warnings
33 ===== test session starts =====
34 platform win32 -- Python 3.13.3, pytest-8.4.1, pluggy-1.6.0
35 rootdir: C:\Users\Sulay\Documents\GitHub\SE_Proyecto
36 plugins: anyio-4.9.0, asyncio-1.0.0, order-1.3.0
37 asyncio: mode=Mode.STRICT, asyncio_default_fixture_loop_scope=None, asyncio_default_test_loop_scope=function
38 collected 4 items
39
40 app\tests\test_reservas.py .... [100%]
41
42 ===== 4 passed, 21 warnings in 1.15s =====
43 PS C:\Users\Sulay\Documents\GitHub\SE_Proyecto>
```

```
main.py test_reservas.py U test_habitaciones.py M X
app > tests > test_habitaciones.py > ...
1 import pytest
2 from fastapi.testclient import TestClient
3 from unittest.mock import patch
4 from app.main import app
5
6 client = TestClient(app)
7
8
9 class TestHabitacionesEndpoints:
10     """Tests para las rutas de habitaciones con mocks"""
11
12     @pytest.fixture
13     def mock_habitacion(self):
14         return {
15             "id": 1,
16             "numero": "101",
17             "tipo": "simple",
18             "precio_noche": 50.0,
19             "estado": "disponible"
20         }
21
22     @patch("app.crud.habitacion.crear_habitacion")
23     def test_crear_habitacion_exitoso(self, mock_crear_habitacion, mock_habitacion):
24         """Test para crear una habitación correctamente"""
25         mock_crear_habitacion.return_value = mock_habitacion
26         payload = {
27             "numero": "101",
28             "tipo": "simple",
29             "precio_noche": 50.0
30         }
31
32 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
33
34 PS C:\Users\Sulay\Documents\GitHub\SE_Proyecto> coverage run -m pytest app/tests/test_habitaciones.py --disable-warnings
35 ===== test session starts =====
36 platform win32 -- Python 3.13.3, pytest-8.4.1, pluggy-1.6.0
37 rootdir: C:\Users\Sulay\Documents\GitHub\SE_Proyecto
38 plugins: anyio-4.9.0, asyncio-1.0.0, order-1.3.0
39 asyncio: mode=Mode.STRICT, asyncio_default_fixture_loop_scope=None, asyncio_default_test_loop_scope=function
40 collected 6 items
41
42 app\tests\test_habitaciones.py ..... [100%]
43
44 ===== 6 passed, 21 warnings in 1.12s =====
45 PS C:\Users\Sulay\Documents\GitHub\SE_Proyecto>
```



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main.py test_reservas.py test_habitaciones.py test_ingresos.py U test_egresos.py U
app > tests > test_egresos.py > ...
1 import pytest
2 from fastapi.testclient import TestClient
3 from datetime import date
4 from unittest.mock import patch
5 from app.main import app
6
7 client = TestClient(app)
8
9
10 class TestEgresosEndpoints:
11     """Tests para las rutas de egresos con mocks"""
12
13     @pytest.fixture
14     def mock_egreso(self):
15         return {
16             "id": 10,
17             "fecha": str(date.today()),
18             "monto": 80.0,
19             "descripcion": "Compra de insumos",
20             "factura_id": 10 # este campo debe estar en tu schema si es requerido
21         }
22
23     @patch("app.crud.egreso.crear_egreso")
24     def test_crear_egreso_exitoso(self, mock_crear_egreso, mock_egreso):
25         """Test para crear un egreso correctamente"""
26         mock_crear_egreso.return_value = mock_egreso
27
28         payload = {
29             "fecha": mock_egreso["fecha"]
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PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
app\models\ingreso.py	11	0	100%	
app\models\pago.py	11	0	100%	
app\models\parametro.py	8	0	100%	
app\models\reportes.py	31	0	100%	
app\models\reserva.py	14	0	100%	
app\models\usuario.py	16	0	100%	
app\routers\__init__.py	0	0	100%	
app\routers\cliente.py	22	9	59%	12-15, 19, 23-26
app\routers\cuenta.py	48	26	46%	15-19, 24-27, 36, 45, 52-55, 65-73, 78-81
app\routers\egresos.py	13	0	100%	
app\routers\facturas.py	13	2	85%	12, 16
app\routers\habitacion.py	25	10	60%	13, 17, 21-24, 28-31
app\routers\ingresos.py	13	2	85%	12, 16
app\routers\pagos.py	13	2	85%	12, 16
app\routers\parametro.py	44	25	43%	17-18, 26-29, 37-40, 49-53, 63-71, 79-81
app\routers\reportes.py	39	17	56%	29, 46, 67, 86, 101, 119-128, 145-161
app\routers\reserva.py	19	6	68%	12, 16, 20-23
app\routers\usuario.py	41	21	49%	13-16, 20, 24-27, 32-35, 39-42, 46-49
app\schemas\__init__.py	0	0	100%	
app\schemas\cliente.py	14	0	100%	
app\schemas\cuenta.py	18	0	100%	
app\schemas\egreso.py	12	0	100%	
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app\schemas\pago.py	13	0	100%	
app\schemas\parametro.py	16	0	100%	
app\schemas\reportes.py	55	0	100%	
app\schemas\reserva.py	15	0	100%	
app\schemas\usuario.py	13	0	100%	
app\tests\test_egresos.py	32	13	59%	1-2, 10, 14, 23-24, 35-36, 44-45, 50, 58-59
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TOTAL	1059	397	63%	

PS C:\Users\Sulay\Documents\GitHub\SE\_Proyecto>