import pytest

import disruptive import disruptive.errors as dterrors import tests.api_responses as dtapiresponses from disruptive.authentication import Auth

```
class TestAuth():
def test_repr(self, request_mock):
    # Update the response json with a mock token response.
   res = dtapiresponses.auth token fresh
   request_mock.json = res
    # Fetch a role.
   x = disruptive.Auth.serviceaccount('key_id', 'secret', 'email')
    # Evaluate __repr__ function and compare copy.
    eval(repr(x))
def test_serviceaccount_auth(self, request_mock):
    # Update the response json with a mock token response.
    res = dtapiresponses.auth_token_fresh
    request_mock.json = res
    # Call the two classmethod constructors.
    auth = disruptive.Auth.serviceaccount('key_id', 'secret', 'email')
    # Assert token post request not sent at construction.
    request_mock.assert_request_count(0)
    # Assert instance of Auth class.
    assert isinstance(auth, Auth)
def test token refresh(self, request mock):
    # Update the response json with an expired token response.
    res = dtapiresponses.auth_token_expired
    request_mock.json = res
    # Create an authentication object.
    auth = disruptive.Auth.serviceaccount('key_id', 'secret', 'email')
    # Verify expired token.
    assert auth._has_expired()
    # Update the response json with a fresh token response.
   res = dtapiresponses.auth_token_fresh
```

request_mock.json = res

```
# Call the get_token method to force a refresh.
    auth.get_token()
    # Verify non-expired token.
    assert not auth._has_expired()
def test_raise_none_credential(self):
    # Verify InvalidTypeError raised at None input credential.
   with pytest.raises(TypeError):
        disruptive.Auth.serviceaccount(None, 'secret', 'email')
   with pytest.raises(TypeError):
        disruptive.Auth.serviceaccount('key_id', None, 'email')
    with pytest.raises(TypeError):
       disruptive.Auth.serviceaccount('key_id', 'secret', None)
def test_raise_empty_string_credential(self):
    # Verify EmptyStringError raised at missing input credential.
    with pytest.raises(dterrors.EmptyStringError):
        disruptive.Auth.serviceaccount('', 'secret', 'email')
    with pytest.raises(dterrors.EmptyStringError):
        disruptive.Auth.serviceaccount('key_id', '', 'email')
    with pytest.raises(dterrors.EmptyStringError):
        disruptive.Auth.serviceaccount('key_id', 'secret', '')
```