Criação de novos testes unitários



DEVinHouse

Parcerias para desenvolver a sua carreira



AGENDA

- Configuração de PyTest.Fixtures
- Novos testes unitários

Configuração de PyTest.Fixtures

```
No arquivo conftest.py, adicione os seguintes blocos de código, para podermos testar
endpoints autenticados:
@pytest.fixture
def logged in client(client):
    data = {
        'email': "luislopes@gmail.com",
        'password': "123Mudar!"
    response = client.post('user/login', data=json.dumps(data), headers=headers)
    return response.json['token']
```

Configuração de PyTest.Fixtures

```
No arquivo conftest.py, adicione os seguintes blocos de código, para impedir de
salvar dados invalidados novamente:
@pytest.fixture(scope="function", autouse=True)
def session(app):
    with app.app context():
        connection = db.engine.connect()
        transaction = connection.begin()
        options = dict(bind=connection, binds={})
        sess = db.create scoped session(options=options)
        sess.begin nested()
```

Configuração de PyTest.Fixtures

```
@event.listens for(sess(), 'after transaction end')
        def restart savepoint(sess2, trans):
            if trans.nested and not trans. parent.nested:
                sess2.expire all()
                sess2.begin nested()
        db.session = sess
        yield sess
        sess.remove()
        transaction.rollback()
        connection.close()
```

```
# Criar uma pasta chama users dentro da pasta tests e criar um arquivo chamado
test create para criarmos os casos de testes para o endpoint user/create:
from flask import json
import random
mimetype = 'application/json'
headers = {
    'Content-Type': mimetype,
    'Accept': mimetype
url = '/user/create'
```

```
def test_create_user_not_authorized(client):
    response = client.post(url, headers=headers)
    assert response.status_code == 403
    assert response.json['error'] == "Você não tem permissão"
```

```
def test create user authorized and missing parameters(client, logged in client):
    headers['Authorization'] = f"Bearer {logged in client}"
    keys = ["city id", "name", "age", "email", "password"]
    keys not have in request = keys.pop(random.randrange(len(keys)))
    data = { 'email': "loivaci.lopes@example.com", 'city id': 2, 'name': 'Luis Lopes',
        'age': 30, 'password': '123Mudar!'
    del data[keys not have in request]
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status code == 422
    assert response.json['error'] == f"Está faltando o item ['{keys not have in request}']"
```

```
def test create user failed exist user(client, logged in client):
    headers['Authorization'] = f"Bearer {logged in client}"
    data = {
        'email': "luislopes@gmail.com",
        'city id': 2,
        'name': 'Luis Lopes',
        'age': 30,
        'password': '123Mudar!'
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status code == 400
    assert response.json['message'] == "Não foi possível criar o usuário"
```

```
def test create user success(client, logged in client):
    headers['Authorization'] = f"Bearer {logged in client}"
    data = {
        'email': "loivaci.lopes@example.com",
        'city id': 2,
        'name': 'Luis Lopes',
        'age': 30,
        'password': '123Mudar!'
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status code == 201
    assert response.json['message'] == "Usuário foi criado com sucesso."
```

```
# Ainda na pasta users dentro da pasta tests, iremos criar um arquivo chamado
test login para criarmos os casos de testes para o endpoint user/login:
from flask import json
mimetype = 'application/json'
headers = {
    'Content-Type': mimetype,
    'Accept': mimetype
url = '/user/login'
```

```
def test login failed error password(client):
    data = {
        'email': "luislopes@gmail.com",
        'password': "123123434"
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status code == 401
    assert response.json['error'] == "Suas credênciais estão incorretas!"
```

```
def test login failed error email(client):
    data = {
        'email': "loivaci.lopes@example",
        'password': "123Mudar!"
    response = client.post('/user/login', data=json.dumps(data), headers=headers)
    assert response.status code == 500
    assert response.json['error'] == "404 Not Found: The requested URL was not found
on the server. If you entered the URL manually please check your spelling and try
again."
```

```
def test login failed error missing password(client):
    data = { 'email': "loivaci.lopes@example" }
    response = client.post('/user/login', data=json.dumps(data), headers=headers)
    assert response.status code == 422
    assert response.json['error'] == "Está faltando o item ['password']"
def test login failed error missing email(client):
    data = { 'password': "123Mudar!" }
    response = client.post('/user/login', data=json.dumps(data), headers=headers)
    assert response.status code == 422
    assert response.json['error'] == "Está faltando o item ['email']"
```

```
def test login failed error missing all parameters(client):
   data = {}
    response = client.post('/user/login', data=json.dumps(data), headers=headers)
    assert response.status code == 422
    assert response.json['error'] == "Está faltando o item ['email', 'password']"
def test login success(client):
    data = { 'email': "luislopes@gmail.com", 'password': "123Mudar!" }
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status code == 200
    assert "token" in response.json
```

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OBRIGADO!





