





Фікстури. Обмін через conftest.py

Бутенко Сергій

⊙ Проблема



```
test api.py X test fixtures.py
                                                             test ui.py
  EXPLORER
                        tests > api > dest_api.py > ...
 OPEN EDITORS
                               You, seconds ago | 1 author (You)
∨ BECOME QA AUTO
                               import pytest
 > .pytest cache
 ∨ config
                           3
  config.pv
                               You, seconds ago | 1 author (You)
 ∨ modules
                               class User:

y api / clients

                                    def init (self) -> None:
   __init__.py
                           6
                                        self.name = 'Sergii'
  ∨ common
                                        self.second name = 'Butenko'
                           8
   init_.py
                           9

y ui / page objects

√>

                         10
   init .py
                         11
                               @pytest.fixture
 ∨ tests
                         12
                               def user():
                         13
                                    vield User()
  > pycache
                         14
  ∨ api
                         15
   > pycache
                         16
                               def test remove name(user):
   test api.py
                         17
                                    user.name = ''
   test fixtures.py U
                         18
                                    assert user.name == ''
  > ui
                         19
                         20
                         21
                               def test name(user):
                         22
                                    assert user.name == 'Sergii'
                         23
                         24
                               def test second name(user):
                         25
                         26
                                    assert user.second name == 'Butenko'
                         27
```

⊙ Проблема



```
> OPEN EDITORS
                       tests > api > 💠 test_fixtures.py > 😚 user
                              import pytest

∨ BECOME QA AUTO

 > .pytest cache

∨ config

                              class User:
  config.pv
 ∨ modules
                                  def init (self) -> None:

y api / clients

                                      self.name = None
  init_.py
                         8
                                      self.second name = None
                         9
  v common
                        10
                                  def create(self):
  init .py
                                      self.name = 'Sergii'
                        11

∨ ui / page_objects

                        12
                                      self.second name = 'Butenko'
   init .py
                        13
 ∨ tests
                                  def remove(self):
                        14
                                      self.name = ''
  > __pycache__
                        15
                        16
                                      self.second name = ''
  ∨ api
                        17
   > _pycache_
                        18
   test api.py
                        19
                              @pytest.fixture
   test fixtures.py U
                        20
                              def user():
  > ui
                                  user = User()
                        21
                        22
                                  user.create()
                        23
                        24
                                  yield user
                        25
                        26
                                  user.remove()
                        27
                        28
                              def test change name(user):
                        29
                        30
                                  assert user.name == 'Sergii'
                        31
                        32
                        33
                              def test change second name(user):
                                  assert user.second name == 'Butenko'
                        34
                        35
```



```
✓ tests
✓ api
♣ test_api.py
♣ test_fixture.py
> ui
♣ conftest.py
```



```
tests > api > dest_fixtures.py > ...
> OPEN EDITORS
                             import pytest
∨ BECOME QA AUTO
 > .pytest cache

∨ config

                             class User:
  config.py
 ∨ modules
                                 def init (self) -> None:

→ api / clients

                               self.name = None
                               self.second name = None
                         8
   __init__.py
                         9
  ∨ common
                               def create(self):
                        10
   __init__.py
                                     self.name = 'Sergii'
                        11
  ∨ ui / page objects
                                     self.second name = 'Butenko'
                        12
   init .py
                        13
 ∨ tests
                        14
                               def remove(self):
                               self.name = ''
  > pycache
                        15
                               self.second name = ''
                        16
  ∨ api
                        17
   > pycache
                        18
   test_api.py
                             @pytest.fixture
                        19
   test fixtures.py U
                             def user():
                        20
  > ui
                              user = User()
                        21
  conftest.py
                                 user.create()
                1, U
                        22
                        23
                                 yield user
                        24
                        25
                        26
                                 user.remove()
                        27
```



```
> OPEN EDITORS
                         tests > api > dest_fixtures.py > 😝 test_change_name
                                def test change name(user):

∨ BECOME QA AUTO

                                     assert user.name == 'Sergii'
 > .pytest_cache

∨ config

  config.py
                                def test change second name(user):
 ∨ modules
                                     assert user.second name == 'Butenko'

→ api / clients

   init .py
  ∨ common
   init .py

∨ ui / page objects

   init_.py

∨ tests

   > __pycache__
  ∨ api
   > __pycache__
   test api.py
   test_fixtures.py U
```











conftest - це спеціальний файл платформи pytest для зберігання фікстур



```
✓ BECOME QA AUTO

  > .pytest_cache

∨ config

  config.pv
 ∨ modules

y api / clients

   __init__.py
  ∨ common
   init .py

∨ ui / page_objects

   init_.py
 ∨ tests
   > pycache
  ∨ api
   > __pycache_
   test api.py
   test fixtures.py U
   > ui
  conftest.py
```

```
You, 30 minutes ago | 1 author (You)
     import pytest
     You, 30 minutes ago | 1 author (You)
     class User:
         def init (self) -> None:
 6
              self.name = 'Sergii'
              self.second name = 'Butenko'
 8
10
     @pytest.fixture
11
12
     def user():
13
         yield User()
14
15
     def test remove name(user):
16
         user.name = ''
17
18
         assert user.name == ''
19
20
     def test name(user):
21
22
         assert user.name == 'Sergii'
23
24
     def test second name(user):
         assert user.second name == 'Butenko'
26
27
```

```
    test_apipy ×

> OPEN EDITORS
                               tests > api > • test_api.py >
V BECOME QA AUTO
 o config.py
                                        def __init__(self) -> None:
 _init_py
                                             self.name = None
 • _init_py
 v ui/page objects
                                             self.name = "Sergii"
 . init_py
                                             self second name = "Butenko
                                         def remove/self)-

    test_api.py

    test_fixture.py

                                             self.second name = **
· conftest.pv
                                    Opytest.fixture
                                        yield user
                                    def test remove name(user):
                                         assert user.name ==
                                     def test name(user):
                                        assert user.name == "Sergii"
                                    def test second name(user):
                                        assert user.second name == "Butenko"
```



```
∨ BECOME QA AUTO

 > .pytest cache

∨ config

  config.pv
 ∨ modules

y api / clients

                            6
   init .py
  ∨ common
                            8
   __init__.py

√ ui / page objects

                           10
   init .py
 ∨ tests
                           12
  > pycache
                           13
                           14
  ∨ api
                           15
   > __pycache__
                           16
   test api.py
                           17
   test fixtures.py U
                           18
  ) ui
                           19
 conftest.py
                  U
                           20
                           22
                           23
                           24
                           25
                           26
                           27
```

```
You, 30 minutes ago | 1 author (You)
import pytest
You, 30 minutes ago | 1 author (You)
class User:
 def init (self) -> None:
 self.name = 'Sergii'
 self.second name = 'Butenko'
@pytest.fixture
def user():
 yield User()
def test remove name(user):
    user.name = ''
    assert user.name == ''
def test name(user):
    assert user.name == 'Sergii'
def test second name(user):
    assert user.second name == 'Butenko'
```



```
> OPEN EDITORS

✓ BECOME QA AUTO

 > .pytest_cache

∨ config

  config.py
 ∨ modules

√ api / clients

   init_.py
  ∨ common
   init .py
  ∨ ui / page objects
   __init__.py
 ∨ tests
  > pycache
  ∨ api
   > pycache
   test api.py
   test_fixtures.py U
   > ui
conftest.py
```

```
tests > api > 🐨 test_api.py > 🕥 test_remove_name
       You, seconds ago | 1 author (You)
       def test remove name(user):
                                           You, seconds ago .
           user.name = ''
           assert user.name == ''
       def test name(user):
           assert user.name == 'Sergii'
  8 9
       def test second name(user):
 10
 11
           assert user.second name == 'Butenko'
 12
```



Підсумки



- conftest це спеціальний файл платформи pytest для зберігання фікстур
- За допомогою файла conftest можно суттєво зменшити кількість рядків кода при використанні фікстур