My most used pytest plugins for Django development

Four Digits, 13 september 2024
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Overview

All plugins used since pytest 6.0.0 (Sep 4, 2020) current: 8.3.3

pytest-env	1.1.4	Sep 7, 2024
pytest-mock	3.14	Mar 21, 2024
pytest-django	4.9	Sep 2, 2024
pytest-factoryboy	2.7	Mar 5, 2024
pytest-playwright	0.5.2	Sep 6, 2024
pytest-repeat	0.9.3	Oct 9, 2023

1. pytest-env

```toml
[tool.pytest.ini_options]
DJANGO_SETTINGS_MODULE = "pytest_plugins.settings"
testpaths = "tests/"
addopts = "--reuse-db"
env = [
    "CURRENT_USER = {USER}",
]
```

2. pytest-mock

```python
mocker.patch(
    "pytest_plugins.models.check_user_on_remote_server",
    side_effect=ConnectionError("Error"),
)

spy = mocker.spy(
    pytest_plugins.models, "check_user_on_remote_server"
)
```

3. pytest-django

markers

```python
@pytest.mark.django_db
def test_pytest_django__django_db(django_user_model):
```

asserts

```python
from pytest_django.asserts import assertQuerySetEqual, assertTemplateUsed
```

fixtures

```python
@pytest.mark.django_db
def test_pytest_django__fixtures(
    client, admin_user, django_assert_num_queries,
    admin_user, live_server, settings, mailoutbox
):
```

4. pytest-factoryboy

factories.py

```python
class UserFactory(factory.django.DjangoModelFactory):
    username = factory.Faker("first_name")
    email = factory.Faker("email")

    class Meta:
        model = User
        skip_postgeneration_save = True
```

conftest.py

```python
from pytest_factoryboy import register
from pytest_plugins import factories


register(factories.UserFactory)
```

5. pytest-playwright

```python
def test_pytest_playwright__admin_login(
    live_server, django_db_serialized_rollback, page, admin_user
):
    response = page.goto(live_server.url + reverse("admin:login"))
    assert response.status == 200

    page.fill("#id_username", admin_user.username)
    page.fill("#id_password", "password")
    page.click('input[type="submit"]')

    assert page.url == live_server.url + reverse("admin:index")
```

6. pytest-repeat

```
$ pytest tests/test_6_pytest_repeat.py --count 1000
```

https://github.com/maerteijn/pytest-plugins