

UNIVERSIDADE FEDERAL DE SÃO CARLOS

Centro de Ciências Exatas e de Tecnologia

Departamento de Computação

Engenharia de Software 2

Projeto Prático

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Análise dos testes presentes

Passando o comando de execução seguinte, nós conseguimos realizar a cobertura de testes realizados e também analisar aqueles testes que estão apresentando falhas:

```
py.test -vvv --nomigrations --cov shuup --cov-report html shuup_tests
```

Os reports são salvos em HTML no diretório `htmlcov`, sendo no caso o arquivo `index.html` usado no print da cobertura neste documento.

```

===== FAILURES =====
test_contact_filters

rf = <django.test.client.RequestFactory object at 0x7f4682c03b50>, admin_user = <User: admin>

@pytest.mark.django_db
def test_contact_filters(rf, admin_user):
    shop = get_default_shop()
    products_per_order = 5

    request = rf.get("/")
    request.shop = shop
    apply_request_middleware(request)
    product = get_default_product()

    customer = get_person_contact(admin_user)
    create_order(request, creator=admin_user, customer=customer, product=product)
    order_one = Order.objects.first()

    user = UserFactory()
    second_customer = get_person_contact(user)
    create_order(request, creator=admin_user, customer=second_customer, product=product)
    order_two = Order.objects.first()

    user = UserFactory()
    user.is_staff = True
    user.save()

    create_order(request, creator=user, customer=second_customer, product=product)
    order_three = Order.objects.first()
    order_three.orderer = customer
    order_three.save()

    # test that admin user gets two orders as he created two
    expected_taxful_total_price = order_one.taxful_total_price + order_two.taxful_total_price
    expected_taxless_total_price = order_one.taxless_total_price + order_two.taxless_total_price
    expected_order_count = 2
    test_info = initialize_simple_report(SalesReport, data_overrides={"creator": [admin_user.pk]})
    return_data = test_info.json_data.get("tables")[0].get("data")
    _assert_expected_values(
>         expected_order_count, expected_taxful_total_price, expected_taxless_total_price, products_per_order, return_data
    )

shuup_tests/default_reports/test_default_reports.py:285:

```

```

shuup_tests/default_reports/test_default_reports.py:285:
-----
shuup_tests/default_reports/test_default_reports.py:339: in _assert_expected_values
    assert return_data[0].get("taxful_total") == float(expected_taxful_total_price)
shuup/utils/_unitted_decimal.py:177: in __float__
    return super(UnittedDecimal, self).__float__(**kwargs)
-----

self = TaxfulPrice('940.000000000', 'EUR')

def __float__(self):
    """Float representation."""
    if self._isnan():
        if self.is_snan():
            raise ValueError("Cannot convert signaling NaN to float")
        s = "-nan" if self._sign else "nan"
    else:
        s = str(self)
>     return float(s)
E     ValueError: could not convert string to float: '940.000000000 EUR (incl. tax)'

/usr/lib/python3.6/pydecimal.py:1655: ValueError
===== WARNINGS SUMMARY =====

```

```

===== warnings: summary =====
shuup-venv/lib/python3.6/site-packages/markdown/util.py:87
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/markdown/util.py:87: DeprecationWarning: SelectableGroups dict interface is deprecated. Use select.
INSTALLED_EXTENSIONS = metadata.entry_points().get('markdown.extensions', ())

shuup_tests/xtheme/utills.py:27
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup_tests/xtheme/utills.py:27: DeprecationWarning: invalid escape sequence \s
CLOSE_ENOUGH_FIX_RE = re.compile("[\s]+")

shuup_tests/front/test_registration.py:226
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup_tests/front/test_registration.py:226: DeprecationWarning: invalid escape sequence \{
urls = re.findall("http[s]?://(?:[a-zA-Z]|[0-9]|[$-_@.&]|!*\(\)\]|(?:%[0-9a-fA-F][0-9a-fA-F]))+", body)

shuup_tests/front/test_registration.py:373
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup_tests/front/test_registration.py:373: DeprecationWarning: invalid escape sequence \{
"http[s]?://(?:[a-zA-Z]|[0-9]|[$-_@.&]|!*\(\)\]|(?:%[0-9a-fA-F][0-9a-fA-F]))+", mail.outbox[2].body

shuup_tests/front/test_registration.py:526
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup_tests/front/test_registration.py:526: DeprecationWarning: invalid escape sequence \{
"http[s]?://(?:[a-zA-Z]|[0-9]|[$-_@.&]|!*\(\)\]|(?:%[0-9a-fA-F][0-9a-fA-F]))+", mail.outbox[1].body

shuup_tests/admin/test_contact_edit.py: 3 tests with warnings
shuup_tests/admin/test_contact_extensibility.py: 4 tests with warnings
shuup_tests/admin/test_contact_module.py: 1 test with warning
shuup_tests/admin/test_contact_page.py: 1 test with warning
shuup_tests/admin/test_views.py: 2 tests with warnings
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup/admin/modules/contacts/views/detail.py:123: RemovedFromShuupWarning: 'admin_contact_toolbar_button' provider is deprecated, use 'admin_contact_toolbar_action_item' instead.
RemovedFromShuupWarning,
shuup_tests/admin/test_contact_extensibility.py: 1 test with warning
shuup_tests/admin/test_contact_price_display.py: 1 test with warning
shuup_tests/admin/test_order_detail_extensibility.py: 3 tests with warnings
shuup_tests/admin/test_product_copy.py: 1 test with warning
shuup_tests/admin/test_refund_creator.py: 1 test with warning
shuup_tests/admin/test_refund_creator_multiple_suppliers.py: 1 test with warning
shuup_tests/admin/test_sales_dashboard_module.py: 6 tests with warnings
shuup_tests/admin/test_service_providers.py: 9 tests with warnings
shuup_tests/admin/test_shipment_creator.py: 2 tests with warnings
shuup_tests/admin/test_user_module.py: 1 test with warning
shuup_tests/admin/test_widgets.py: 2 tests with warnings
shuup_tests/admin/test_wizard.py: 5 tests with warnings
shuup_tests/campaigns/test_campaign_admin_with_supplier.py: 1 test with warning
shuup_tests/campaigns/test_coupon_admin_with_supplier.py: 1 test with warning
shuup_tests/front/test_all_seeing.py: 2 tests with warnings
shuup_tests/front/test_carousel.py: 1 test with warning

```

```

balieiro@manjarodistro:~/Documentos/Github/ES2/ES2_2023-2_shuup
shuup_tests/simple_cms/test_page_view.py::test_render_page_title
shuup_tests/simple_cms/test_page_view.py::test_page_permission_group
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/django/db/models/fields/__init__.py:1369: RuntimeWarning: DateTimeField Page.available_from received a naive datetime (1988-01-01 00:00:00) while time zone support is active.
RuntimeWarning)

shuup_tests/simple_cms/test_children.py::test_visible_children
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/django/db/models/fields/__init__.py:1369: RuntimeWarning: DateTimeField Page.available_from received a naive datetime (2000-01-01 00:00:00) while time zone support is active.
RuntimeWarning)

shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_get_by_url
shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_redirect
shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_404_no_xlate
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_hide_expired[True]
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_hide_expired[False]
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_show_all
shuup_tests/simple_cms/test_plugins.py::test_plugin_renderers_absolute_links
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/django/db/models/fields/__init__.py:1427: RuntimeWarning: DateTimeField Page.available_from received a naive datetime (1900-01-01 00:00:00) while time zone support is active.
RuntimeWarning)

shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_get_by_url
shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_redirect
shuup_tests/simple_cms/test_page_view.py::test_multilanguage_page_404_no_xlate
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_hide_expired[True]
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_hide_expired[False]
shuup_tests/simple_cms/test_plugins.py::test_page_links_plugin_show_all
shuup_tests/simple_cms/test_plugins.py::test_plugin_renderers_absolute_links
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/django/db/models/fields/__init__.py:1427: RuntimeWarning: DateTimeField Page.available_to received a naive datetime (2900-01-01 00:00:00) while time zone support is active.
RuntimeWarning)

shuup_tests/simple_cms/test_xtheme_layout.py::test_page_layout
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-packages/django/db/models/fields/__init__.py:1369: RuntimeWarning: DateTimeField Page.available_from received a naive datetime (1917-12-06 00:00:00) while time zone support is active.
RuntimeWarning)

-- Docs: https://docs.pytest.org/en/latest/warnings.html

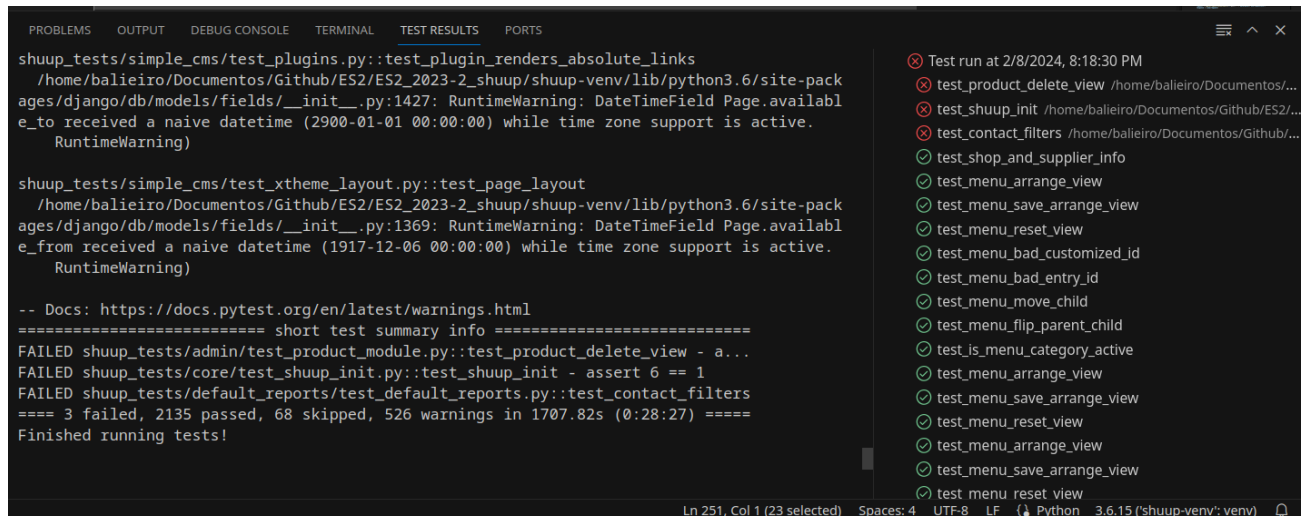
-----
coverage: platform linux, python 3.6.15-final-0 -----
overage HTML written to dir.htmlcov

===== short test summary info =====
FAILED shuup_tests/default_reports/test_default_reports.py::test_contact_filters - ValueError: could ...
===== 1 failed, 2137 passed, 68 skipped, 530 warnings in 1254.24s (0:20:54) =====
~/Documentos/Github/ES2/ES2_2023-2_shuup master 19 71

```

Como podemos ver pelos prints de execução dos arquivos de teste, possuímos mais de 2500 arquivos testes existentes, sendo que alguns deles apresentam falhas ou warnings, dessa forma, cabe inicialmente analisarmos os testes falhos e buscar soluções.

Ao rodarmos os testes pelo VSCode, encontramos resultados um pouco diferentes:



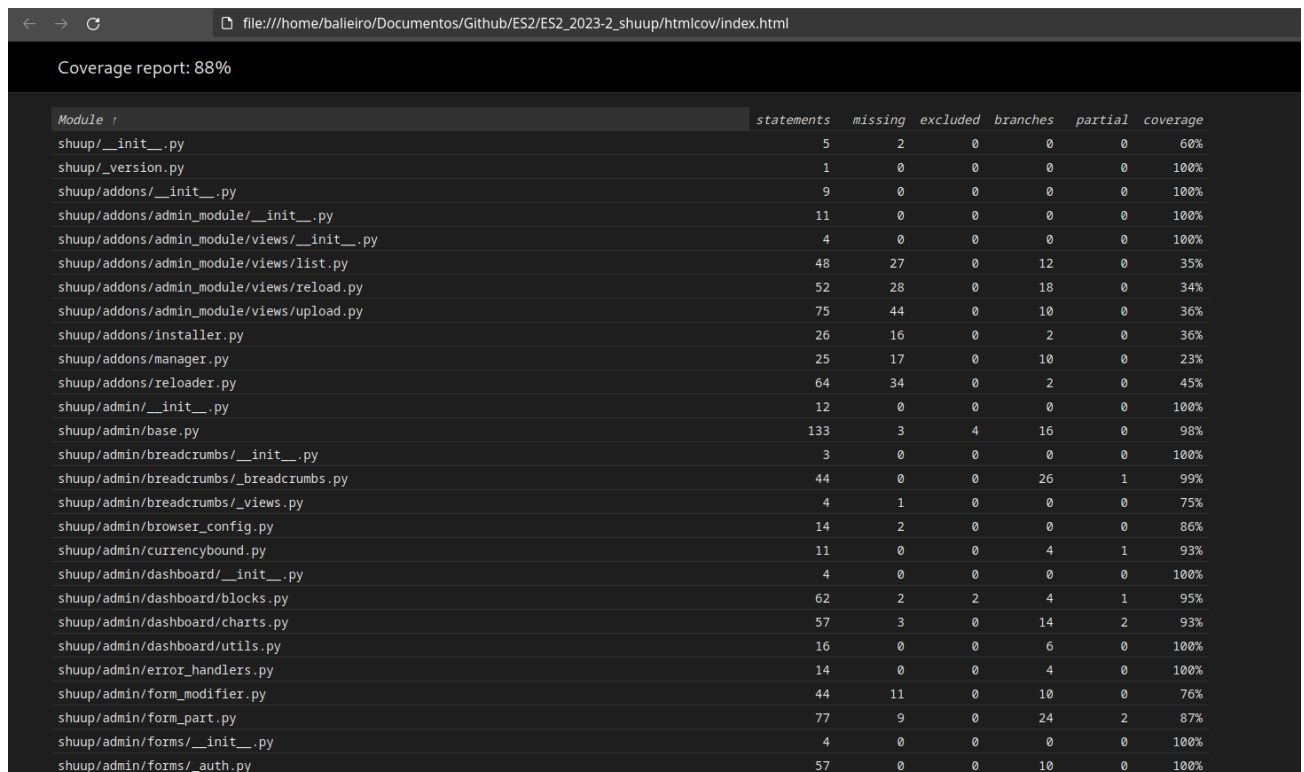
```
shuup_tests/simple_cms/test_plugins.py::test_plugin_renders_absolute_links
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-pack
ages/django/db/models/fields/__init__.py:1427: RuntimeWarning: DateTimeField Page.availabl
e_to received a naive datetime (2900-01-01 00:00:00) while time zone support is active.
RuntimeWarning)

shuup_tests/simple_cms/test_xtheme_layout.py::test_page_layout
/home/balieiro/Documents/Github/ES2/ES2_2023-2_shuup/shuup-venv/lib/python3.6/site-pack
ages/django/db/models/fields/__init__.py:1369: RuntimeWarning: DateTimeField Page.availabl
e_from received a naive datetime (1917-12-06 00:00:00) while time zone support is active.
RuntimeWarning)

-- Docs: https://docs.pytest.org/en/latest/warnings.html
===== short test summary info =====
FAILED shuup_tests/admin/test_product_module.py::test_product_delete_view - a...
FAILED shuup_tests/core/test_shuup_init.py::test_shuup_init - assert 6 == 1
FAILED shuup_tests/default_reports/test_default_reports.py::test_contact_filters
===== 3 failed, 2135 passed, 68 skipped, 526 warnings in 1707.82s (0:28:27) =====
Finished running tests!
```

- ⊗ Test run at 2/8/2024, 8:18:30 PM
- ⊗ test_product_delete_view /home/balieiro/Documents/...
- ⊗ test_shuup_init /home/balieiro/Documents/Github/ES2/...
- ⊗ test_contact_filters /home/balieiro/Documents/Github/...
- ✓ test_shop_and_supplier_info
- ✓ test_menu_arrange_view
- ✓ test_menu_save_arrange_view
- ✓ test_menu_reset_view
- ✓ test_menu_bad_customized_id
- ✓ test_menu_bad_entry_id
- ✓ test_menu_move_child
- ✓ test_menu_flip_parent_child
- ✓ test_is_menu_category_active
- ✓ test_menu_arrange_view
- ✓ test_menu_save_arrange_view
- ✓ test_menu_reset_view
- ✓ test_menu_arrange_view
- ✓ test_menu_save_arrange_view
- ✓ test_menu reset view

A seguir, segue report da cobertura:



Coverage report: 88%

Module	statements	missing	excluded	branches	partial	coverage
shuup/__init__.py	5	2	0	0	0	60%
shuup/_version.py	1	0	0	0	0	100%
shuup/addons/__init__.py	9	0	0	0	0	100%
shuup/addons/admin_module/__init__.py	11	0	0	0	0	100%
shuup/addons/admin_module/views/__init__.py	4	0	0	0	0	100%
shuup/addons/admin_module/views/list.py	48	27	0	12	0	35%
shuup/addons/admin_module/views/reload.py	52	28	0	18	0	34%
shuup/addons/admin_module/views/upload.py	75	44	0	10	0	36%
shuup/addons/installer.py	26	16	0	2	0	36%
shuup/addons/manager.py	25	17	0	10	0	23%
shuup/addons/reloader.py	64	34	0	2	0	45%
shuup/admin/__init__.py	12	0	0	0	0	100%
shuup/admin/base.py	133	3	4	16	0	98%
shuup/admin/breadcrumbs/__init__.py	3	0	0	0	0	100%
shuup/admin/breadcrumbs/_breadcrumbs.py	44	0	0	26	1	99%
shuup/admin/breadcrumbs/_views.py	4	1	0	0	0	75%
shuup/admin/browser_config.py	14	2	0	0	0	86%
shuup/admin/currencybound.py	11	0	0	4	1	93%
shuup/admin/dashboard/__init__.py	4	0	0	0	0	100%
shuup/admin/dashboard/blocks.py	62	2	2	4	1	95%
shuup/admin/dashboard/charts.py	57	3	0	14	2	93%
shuup/admin/dashboard/utils.py	16	0	0	6	0	100%
shuup/admin/error_handlers.py	14	0	0	4	0	100%
shuup/admin/form_modifier.py	44	11	0	10	0	76%
shuup/admin/form_part.py	77	9	0	24	2	87%
shuup/admin/forms/__init__.py	4	0	0	0	0	100%
shuup/admin/forms/_auth.py	57	0	0	10	0	100%

	Statements	Miss	Excluded	Branches	Partial	Coverage
TOTAL	398883721	191		105701221		88%

	Statements	Miss	Excluded	Branches	Partial	Coverage
Total	39888	3721	191	10570	1221	88%

Como podemos ver, o código já apresenta uma boa cobertura de testes, porém, podemos melhorar um pouco mais estas porcentagens implementando novos casos de teste.