Anatomy of a repository

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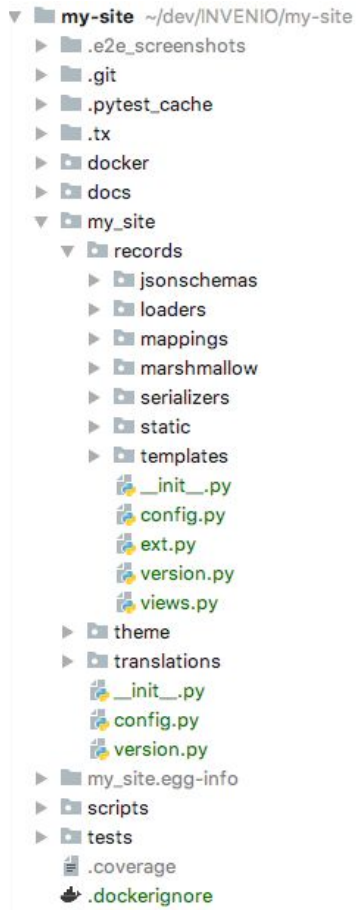
1. Invenio file structure
2. Tracking changes
3. Documentation
4. Development workflow
    a. Docker services
    b. Testing
    c. Project dependencies

Project file structure

1. Application and it's modules
2. Docker files for services
3. Theme
4. Project scripts
5. Tests
6. Documentation
7. Configuration files



Project repository

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ git init
Initialized empty Git repository in /Users/karolina/dev/INVENIO/my-site/.git/

kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ git add --all

kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ check-manifest --update
lists of files in version control and sdist do not match!
missing from sdist:
```

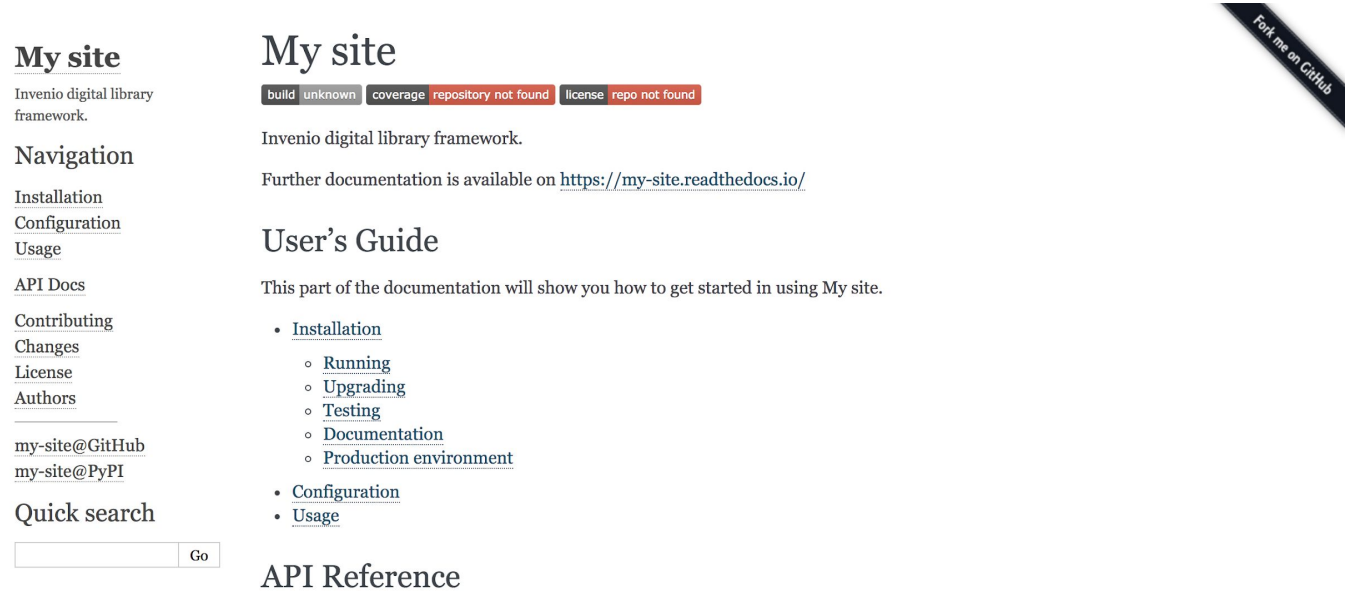
Build documentation

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ python setup.py build_sphinx
```

Build documentation

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
[$ python setup.py build_sphinx
```

`docs/_build/html/index.html`



My site

Invenio digital library framework.

Navigation

Installation
Configuration
Usage

API Docs

Contributing
Changes
License
Authors

my-site@GitHub
my-site@PyPI

Quick search

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My site

build unknown | coverage repository not found | license repo not found

Invenio digital library framework.

Further documentation is available on https://my-site.readthedocs.io/

User's Guide

This part of the documentation will show you how to get started in using My site.

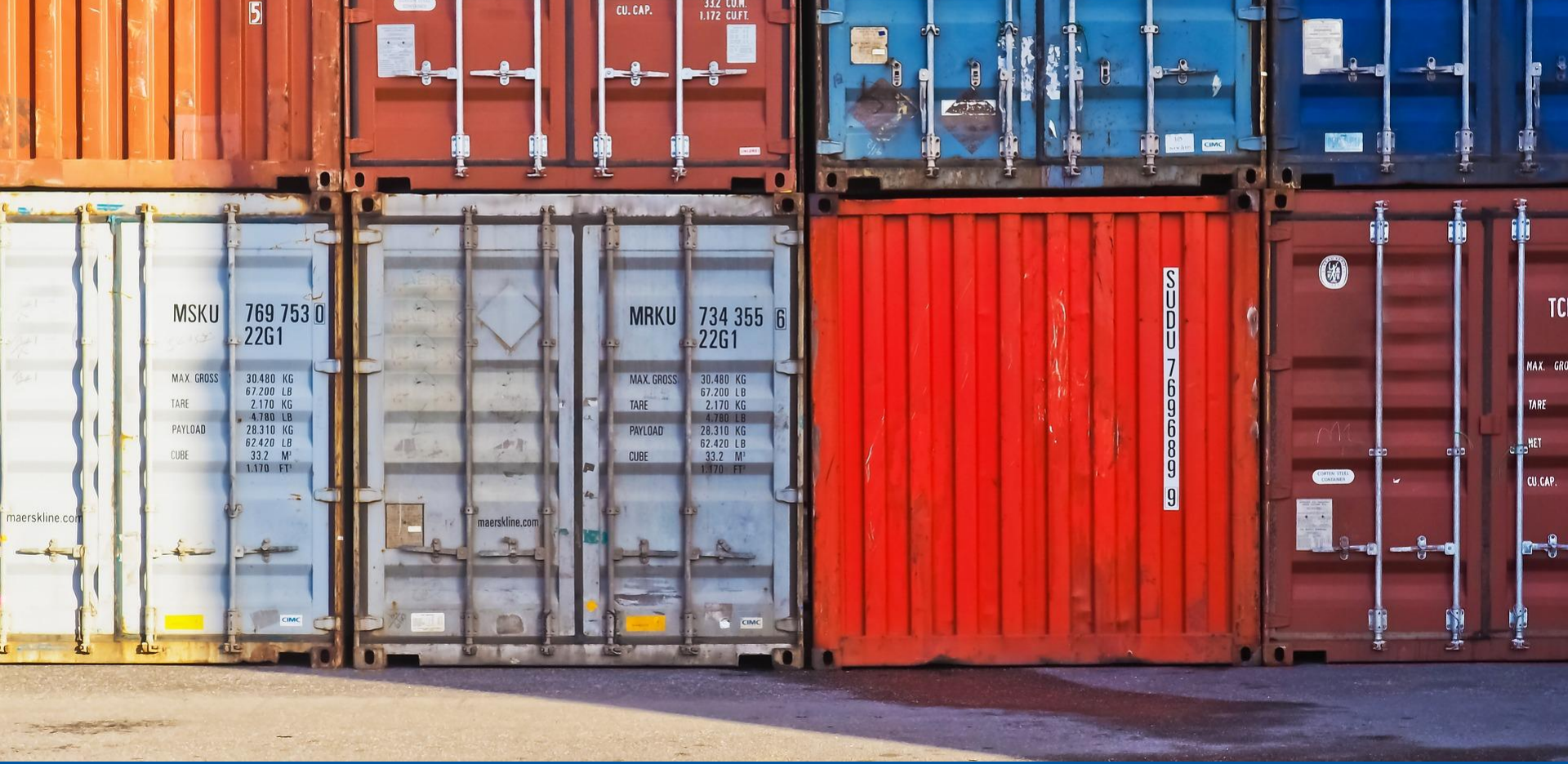
- Installation
  - Running
  - Upgrading
  - Testing
  - Documentation
  - Production environment
- Configuration
- Usage

API Reference

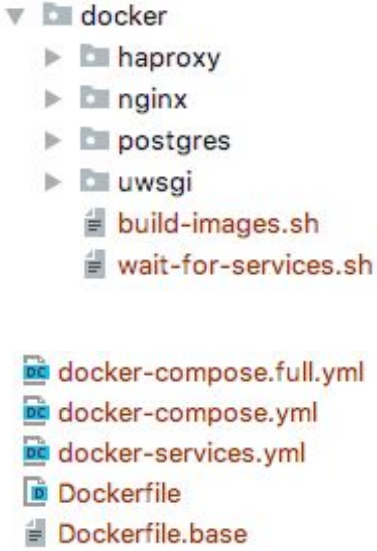
Fork me on GitHub

Developing with

Docker services


MSKU 769 753 0
22G1
MAX. GROSS 30.480 KG 67.200 LB
TARE 2.170 KG 4.780 LB
PAYLOAD 28.310 KG 62.420 LB
CUBE 33.2 M³ 1.170 FT³
maerskline.com
MRKU 734 355 6
22G1
MAX. GROSS 30.480 KG 67.200 LB
TARE 2.170 KG 4.780 LB
PAYLOAD 28.310 KG 62.420 LB
CUBE 33.2 M³ 1.170 FT³
maerskline.com
SUDU 7696899
CU.CAP.

Scripts




```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ docker-compose up
Creating my-site_es_1    ... done
Creating my-site_mq_1    ... done
Creating my-site_db_1    ... done
Creating my-site_cache_1 ... done
```

Tests

Fix me

Test files

```python
# -*- coding: utf-8 -*-
#
# Copyright (C) 2019 CERN.
#
# My site is free software; you can redistribute it and/or modify it under
# the terms of the MIT License; see LICENSE file for more details.

"""Test simple rest flow."""

import json

from invenio_search import current_search


def test_simple_flow(client):
    """Test simple flow using REST API."""
    headers = [('Content-Type', 'application/json')]
    data = {
            'title': 'The title of the record ',
            'contributors': [
                {'name': 'Ellis Jonathan'},
            ]
        }
    url = 'https://localhost:5000/records/'

    # create a record
    response = client.post(url, data=json.dumps(data), headers=headers)
    assert response.status_code == 201
    current_search.flush_and_refresh('records')

    # retrieve record
    res = client.get('https://localhost:5000/records/1')
    assert res.status_code == 200

```

End-to-end VM

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ export E2E="yes"
```

```
./training/00-prerequisites/install-chromedriver.sh
```

End-to-end custom

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ export E2E="yes"

kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ export E2E_WEBDRIVER_BROWSERS="Chrome Firefox"
```

install latest version from
https://sites.google.com/a/chromium.org/chromedriver/downloads

add the chromedriver localisation to your $PATH

Fixing tests

```
5
6   def test_frontpage(live_server, browser):
7       """Test retrieval of front page."""
8       browser.get(url_for('invenio_theme_frontpage.index', _external=True))
9       assert "Welcome to My Site" == browser.find_element_by_class_name(
10          'marketing').find_element_by_tag_name('h1').text
11
```

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ ./run-tests.sh
```

Python dependencies

Managing dependencies

UC: Work with Images (Pillow)

1. development

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ pipenv shell

(my-site) kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ pip install pillow
```

Managing dependencies

UC: Work with Images (Pillow)

1. development

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ pipenv shell

(my-site) kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ pip install pillow
```

2. add to the project

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ pipenv install Pillow
Installing Pillow…
Adding Pillow to Pipfile's [packages]…
✔ Installation Succeeded
Installing dependencies from Pipfile.lock (ee25db)…
  🐍  ████████████████████████████████ 151/151 — 00:00:18
```

Managing dependencies

```
1   [[source]]
2   url = "https://pypi.org/simple"
3   verify_ssl = true
4   name = "pypi"
5
6   [packages]
7   Babel = ">=2.4.0"
8   Flask-BabelEx = ">=0.9.3"
9   invenio = {version = "==3.1.0",extras = ["base", "metadata", "postgresql", "auth", "elasticsearch6" ]}
10  uwsgi = ">=2.0"
11  lxml = ">=3.5.0,<4.2.6"
12  pillow = "*"
```

```
kprzerwa@karolina-macbook:~/dev/INVENIO/my-site
$ git add Pipfile.lock
```

Questions?