
AnyBlok / Attachment Documentation

Release 1.0.0

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Information about the AnyBlok / Attachment project.

1.1 Project Homepage

AnyBlok is hosted on [github](#) - the main project page is at https://github.com/AnyBlok/anyblok_attachment. Source code is tracked here using [GIT](#).

Releases and project status are available on Pypi at http://pypi.python.org/pypi/anyblok_attachment.

The most recent published version of this documentation should be at <http://doc.anyblok-attachment.anyblok.org>.

1.2 Project Status

AnyBlok with attachment is currently in beta status and is expected to be fairly stable. Users should take care to report bugs and missing features on an as-needed basis. It should be expected that the development version may be required for proper implementation of recently repaired issues in between releases;

1.3 Installation

Install released versions of AnyBlok from the Python package index with [pip](#) or a similar tool:

```
pip install anyblok_attachment
```

Installation via source distribution is via the `setup.py` script:

```
python setup.py install
```

Installation will add the `anyblok` commands to the environment.

1.4 Unit Test

Run the test with `nose`:

```
pip install nose
nosetests anyblok_attachment/tests
```

1.5 Dependencies

AnyBlok / Dramatiq works with **Python 3.3** and later. The install process will ensure that [AnyBlok](#), [dramatiq](#) are installed, in addition to other dependencies. The latest version of them is strongly recommended.

1.6 Contributing (hackers needed!)

Anyblok / Dramatiq is at a very early stage, feel free to fork, talk with core dev, and spread the word!

1.7 Author

Jean-Sébastien Suzanne

1.8 Contributors

[Anybox](#) team:

- Jean-Sébastien Suzanne

[Sensee](#) team:

- Franck Bret

1.9 Bugs

Bugs and feature enhancements to AnyBlok should be reported on the [Issue tracker](#).

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2.1 Blok attachment

```
class anyblok_attachment.bloks.attachment.AttachmentBlok(registry)
    Bases: anyblok.blok.Blok

    Add attachment in AnyBlok

    author = 'Suzanne Jean-Sébastien'
    conditional_by = []
    conflicting_by = []
    classmethod import_declaration_module()
    name = 'attachment'
    optional_by = []
    classmethod reload_declaration_module(reload)
    required = ['anyblok-core']
    required_by = ['report']
    version = '1.0.0'
```

2.1.1 Memento

The document historize the version:

```
doc = registry.Attachment.Document.insert(...)
assert doc.type == 'latest'
assert doc.previous_version is None

doc.data = {'other': 'data'}
```

```
assert doc.previous_version is not None
assert doc.previous_version.type == 'historized'
```

You can get:

- All document:

```
registry.Attachment.Document.query().all()
```

- Only the latest:

```
registry.Attachment.Document.Latest.query().all()
```

- Only the historized:

```
registry.Attachment.Document.History.query().all()
```

Note: If one entry changed and a file is available then a historized version will be autmaticly created.

The historized version get the latest version of the document and a new version is added to the document

2.1.2 API doc

Attachment

class anyblok_attachment.bloks.attachment.attachment.**Attachment**

Bases: object

Name space for the attachment models

Declaration type Model

Registry name Model.Attachment

Tablename attachment

Inherit model or mixin

Documents

class anyblok_attachment.bloks.attachment.document.**Document**

Bases: object

Declaration type Model

Registry name Model.Attachment.Document

Tablename attachment_document

Inherit model or mixin

field name	Description
type	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • Field type - <class <p>‘anyblok.column.Selection’></p> <ul style="list-style-type: none"> • default - <class <p>‘anyblok.column.NoDefaultValue’></p> <ul style="list-style-type: none"> • selections: • history - History • latest - Latest • foreign_key - None
filename	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 256 • Context: • Label - None • Field type - <class ‘any-blok.column.String’> • default - <class <p>‘anyblok.column.NoDefaultValue’></p> <ul style="list-style-type: none"> • foreign_key - None
previous_doc_version	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • Context: • Label - None • Field type - <class ‘any-blok.column.String’> • default - <class <p>‘anyblok.column.NoDefaultValue’></p> <ul style="list-style-type: none"> • foreign_key - None
previous_versions	<ul style="list-style-type: none"> • Label - None • fget - get_previous_versions • Field type - <class ‘any-blok.field.Function’> • Context:
version	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64
2.1. Blok attachment	<ul style="list-style-type: none"> • nullable - False • Context: • Label - None • foreign_key - None • default - <class

```
class anyblok_attachment.bloks.attachment.document.Latest
    Bases: anyblok.model.Document, anyblok.mixin.ForbidDelete
```

Declaration type Model

Registry name Model.Attachment.Document.Latest

Tablename attachment_document

Inherit model or mixin

- <class 'anyblok.model.Document'>
- <class 'anyblok.mixin.ForbidDelete'>

```
class anyblok_attachment.bloks.attachment.document.History
    Bases: anyblok.model.Document, anyblok.mixin.ReadOnly
```

Declaration type Model

Registry name Model.Attachment.Document.History

Tablename attachment_document

Inherit model or mixin

- <class 'anyblok.model.Document'>
- <class 'anyblok.mixin.ReadOnly'>

Exceptions

```
exception anyblok_attachment.bloks.attachment.exceptions.NoFileException
    Document has not got file entry
```

```
exception anyblok_attachment.bloks.attachment.exceptions.ProtectedFieldException
    Try to update protected field
```

2.2 Blok wkhtml2pdf

```
class anyblok_attachment.bloks.wkhtml2pdf.WkHtml2PdfBlok (registry)
    Bases: anyblok.blok.Blok
```

Add attachment in AnyBlok

author = 'Suzanne Jean-Sébastien'

conditional_by = []

conflicting_by = []

classmethod import_declaration_module()

name = 'wkhtml2pdf'

optional_by = []

classmethod reload_declaration_module (reload)

required = ['anyblok-core']

required_by = []

version = '1.0.0'

2.2.1 Memento

Define tools to convert HTML to PDF with wkhtmltopdf.

To use WkHtml2Pdf in your template is easy:

```
@register(Model.Attachment.Template)
class MyTemplate(Mixin.WkHtml2Pdf):
    ... # template configuration

    def render(self, data):
        html_content = ...
        return self.wkhtml2pdf(html_content)
```

You may define one or more configuration:

```
page_A4 = registry.Attachment.WkHtml2Pdf.Page.insert(
    label="A4", size="A4")
page_postal_label = registry.Attachment.WkHtml2Pdf.Page.insert(
    label="Postal carrier 1", height=80, width=120)
wkhtml2pdf = registry.Attachment.WkHtml2Pdf.insert(
    label="A4", page=page_A4, margin_top=20)
template = registry.Attachment.Template.insert(
    ...,
    wkhtml2pdf_configuration=wkhtml2pdf
)
doc = registry.Attachment.Document.insert(
    template=template, data=...)
doc.get_file()
```

2.2.2 API doc

Models

class anyblok_attachment.bloks.wkhtml2pdf.model.WkHtml2Pdf

Bases: object

Declaration type Model

Registry name Model.Attachment.WkHtml2Pdf

Tablename attachment_wkhtml2pdf

Inherit model or mixin

field name	Description
encoding	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • Field type - <class <p>‘anyblok.column.String’></p> <ul style="list-style-type: none"> • default - utf-8 • foreign_key - None
margin_top	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • nullable - False • Context: • Label - None • Field type - <class <p>‘anyblok.column.Integer’></p> <ul style="list-style-type: none"> • default - 10 • foreign_key - None
copies	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • nullable - False • Context: • Label - None • Field type - <class <p>‘anyblok.column.Integer’></p> <ul style="list-style-type: none"> • default - 1 • foreign_key - None
id	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • nullable - False • Context: • Label - None • foreign_key - None • default - <class <p>‘anyblok.column.NoDefaultValue’></p> <ul style="list-style-type: none"> • Field type - <class <p>‘anyblok.column.Integer’></p> <ul style="list-style-type: none"> • autoincrement - True • primary_key - True
local_file_access	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • Context: • Label - None • Field type - <class <p>‘anyblok.column.Boolean’></p> <ul style="list-style-type: none"> • default - True

cast_html2pdf (*prefix*, *html_content*)

Cast html document to a pdf document

Parameters

- **prefix** – prefix use for the temporary document
- **html_content** – html file (bytes)

Return type bytes

Exception WkHtml2PdfException

class anyblok_attachment.bloks.wkhtml2pdf.model.**Page**

Bases: object

Define the Page size

Declaration type Model

Registry name Model.Attachment.WkHtml2Pdf.Page

Tablename attachment_wkhtml2pdf_page

Inherit model or mixin

field name	Description
label	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • foreign_key - None • default - <class 'any-blok.column.NoDefaultValue'> • Field type - <class 'any-blok.column.String'> • primary_key - True
height	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • Context: • Label - None • Field type - <class 'any-blok.column.Integer'> • default - <class 'any-blok.column.NoDefaultValue'> • foreign_key - None
updated_at	<ul style="list-style-type: none"> • Label - None • is auto updated - True • nullable - False • Field type - <class 'any-blok.column.DateTime'> • Context:
size	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • Context: • Label - None • Field type - <class 'any-blok.column.String'> • default - <class 'any-blok.column.NoDefaultValue'> • foreign_key - None
width	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • Context: • Label - None • Field type - <class 'any-blok.column.Integer'> • default - <class 'any-blok.column.NoDefaultValue'> • foreign_key - None
12	<ul style="list-style-type: none"> • foreign_key - None
created_at	<ul style="list-style-type: none"> • Label - None

Mixins

class anyblok_attachment.bloks.wkhtml2pdf.mixin.**WkHtml2Pdf**

Bases: object

Declaration type Mixin

Inherit model or mixin

field name	Description
wkhtml2pdf_configuration	<ul style="list-style-type: none"> • info: • remote_model - <p>Model.Attachment.WkHtml2Pdf</p> <ul style="list-style-type: none"> • nullable - False • _remote_columns - None • unique - False • Context: • Label - None • model - Model.Attachment.WkHtml2Pdf • Field type - <class <p>‘anyblok.relationship.Many2One’></p> <ul style="list-style-type: none"> • _column_names - None

Exceptions

exception anyblok_attachment.bloks.wkhtml2pdf.exceptions.**WkHtml2PdfException**

Only id the page configuration is wrong

exception anyblok_attachment.bloks.wkhtml2pdf.exceptions.**PageValidityException**

Only id the page configuration is wrong

2.3 Blok report

class anyblok_attachment.bloks.report.**ReportBlok** (*registry*)

Bases: anyblok.blok.Blok

Add attachment in AnyBlok

author = 'Suzanne Jean-Sébastien'

conditional_by = []

conflicting_by = []

classmethod import_declaration_module()

name = 'report'

optional_by = []

classmethod reload_declaration_module (*reload*)

required = ['attachment']

```
required_by = ['report-format']
version = '1.0.0'
```

2.3.1 Memento

The main goal is to create document in function of template

Add a new template:

```
template = registry.Attachment.Template.insert(...)
```

Add a Document without file but with a Template:

```
document = registry.Attachment.Document.insert(template=template, ...)
document.generate_file()
```

Warning: the `get_file` method may re-create the document with historization if the data have been changed

Model.Attachment.Parser

It is an unSQL model, the goal is to transform the data from `Model.Attachment.Document` to Json format to create the file:

```
@register(Model.Attachment.Parser)
class MyParser(Model.Attachment.Parser):

    @classmethod
    def serialize(cls, data):
        # return serialize data

    @classmethod
    def check_if_file_must_be_generated(cls, template, document):
        # return a Boolean to know if the file must be regenerate
```

Model.Attachment.Template

The template describe how to generate the document file in function of of the data in the document.

The `Model.Attachment.Template` can be used directly an `Template` type class must be add with polymorphism:

```
@register(Model.Attachment)
class Template:

    def get_template_type(self):
        res = super(MyTemplateType, self).get_template_type()
        res.update({'MyTemplateType': 'My type label'})
        return res

@register(Model.Attachment.Template)
class MyTemplateType(Model.Attachment.Template):
    TYPE = 'MyTypeOfTemplate'
```

```

    uuid = UUID(primary_key=True, nullable=False, binary=False,
                 foreign_key=Model.Attachment.Template.use('uuid').options(ondelete=
→ 'cascade'))
    # other field need for the template

    def render(self):
        # generate a file
        return file

```

or on the same table:

```

@register(Model.Attachment)
class Template:

    def get_template_type(self):
        res = super(MyTemplateType, self).get_template_type()
        res.update({'MyTemplateType': 'My type label'})
        return res

@register(Model.Attachment.Template,
           tablename=Model.Attachment.Template)
class MyTemplateType(Model.Attachment.Template):
    TYPE = 'MyTypeOfTemplate'

    def render(self):
        # generate a file
        return file

```

2.3.2 API doc

Common

`anyblok_attachment.bloks.report.common.format_path(path)`

Return the absolute path in function of the blok

Parameters `path` – the path to format

Returns the absolute path

Exception `PathException`

Parser

class `anyblok_attachment.bloks.report.parser.Parser(model)`

Bases: `object`

Base parser to serialize the data for templating

Declaration type `Model`

Registry name `Model.Attachment.Parser`

Tablename `attachment_parser`

Inherit model or mixin

classmethod **check_if_file_must_be_generated** (*template, document*)

Return a boolean to know if the file must be generate or not

Parameters

- **template** – template intance
- **document** – latest document instance

Returns bool

classmethod **serialize** (*model, data*)

Serialize the data to be understanding by template

Parameters

- **model** – an anyblok model need to serialize
- **data** – json dict

Returns json dict

Template

class anyblok_attachment.bloks.report.template.**Template**

Bases: object

Base Model template to define the main configuration between templating system

Declaration type Model

Registry name Model.Attachment.Template

Tablename attachment_template

Inherit model or mixin

field name	Description
type	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • Field type - <class 'any-blok.column.Selection'> • default - <class 'any-blok.column.NoDefaultValue'> • selections - get_template_type • foreign_key - None
parser_from	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • Field type - <class 'any-blok.column.Selection'> • default - model • selections - get_parser_from • foreign_key - None
parser_model	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • Context: • Label - None • Field type - <class 'any-blok.column.String'> • default - Model.Attachment.Parser • foreign_key - None
updated_at	<ul style="list-style-type: none"> • Label - None • is auto updated - True • nullable - False • Field type - <class 'any-blok.column.DateTime'> • Context:
template_path	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • Context: • Label - None • Field type - <class 'any-blok.column.String'>
2.3. Blok report	<ul style="list-style-type: none"> • default - <class 'any-blok.column.NoDefaultValue'> • foreign_key - None

check_if_file_must_be_generated (*document*)

Return True if the file must generate

Parameters **document** – attachment document instance

Return type bool

create_file_for (*document*)

Create a file and add it in the attachment document

Parameters **document** – attachment document instance

get_parser ()

return the template file to compute

classmethod **get_parser_from** ()

Give the location of the parser

get_template ()

return the template file to compute

classmethod **get_template_from** ()

Give the location of the template

classmethod **get_template_type** ()

Give the template type

render (*data*)

Return the file create by the templating engine

Parameters **data** – the serialized data

update_document (*document*, *file_*, *data*)

Update the document to fill file and content

Parameters

- **document** – attachment document instance
- **file** – bytes file
- **data** – serialized data

Document

class anyblok_attachment.bloks.report.document.**Document**

Bases: object

Declaration type Model

Registry name Model.Attachment.Document

Tablename attachment_document

Inherit model or mixin

field name	Description
template	<ul style="list-style-type: none"> • info: • remote_model - Model.Attachment.Template • _remote_columns - None • unique - False • Context: • Label - None • model - Model.Attachment.Template • Field type - <class 'any-blok.relationship.Many2One'> • _column_names - None

class anyblok_attachment.bloks.report.document.Latest

Bases: object

Declaration type Model

Registry name Model.Attachment.Document.Latest

Tablename attachment_document

Inherit model or mixin

Exceptions

exception anyblok_attachment.bloks.report.exceptions.TemplateException

Simple exception if miss Template data

exception anyblok_attachment.bloks.report.exceptions.PathException

Simple exception if it is not a valid path for Template

exception anyblok_attachment.bloks.report.exceptions.RenderException

Simple exception for all error in the render method

2.4 Blok report-format

class anyblok_attachment.bloks.format.ReportBlok(registry)

Bases: anyblok.blok.Blok

Add attachment in AnyBlok

author = 'Suzanne Jean-Sébastien'

conditional_by = []

conflicting_by = []

classmethod import_declaration_module()

name = 'report-format'

optional_by = []

classmethod reload_declaration_module(reload)

```
required = ['report']
required_by = []
version = '1.0.0'
```

2.4.1 Memento

Simple python templating formatage

template file exemple:

```
<!doctype html>
<html>
  <head>
    <title>{title}</title>
  </head>
  <body>
    {description}
  </body>
</html>
```

add the document and create file:

```
template = registry.Attachment.Template.Format.insert(
    template_path='path/of/the/python.template',
    contenttype='text/html',
    filename='mypage.html')
document = registry.Attachment.Document.insert(
    template=template,
    data={'title': 'My page', 'description': 'Hello world !!'})
document.get_file()
```

>>>:

```
{
  'contenttype': 'text/html',
  'file': b'<!doctype html>\n<html>\n    <head>\n        <title>My page</title>\n    b'\n    </head>\n    <body>\n        Hello world !!\n    </body>\n<\n    b'/html>\n',
  'file_added_at': datetime.datetime(2018, 1, 4, 9, 22, 56, 922346, tzinfo=
→<DstTzInfo 'CET' CET+1:00:00 STD>),
  'filename': 'mypage.html',
  'filesize': 131,
  'hash': b'\xf0\xe2?\xebk\xb4\x15\x0f\xb2\x9cT\x08\xee#\x02\xe2\xbe\xa16\x8d'
    b'\xc8\xcd\x91;\xba2\x9c\x9dUF\x10'}
}
```

2.4.2 API doc

Template

```
class anyblok_attachment.bloks.format.template.Template
    Bases: object
```


Declaration type Model**Registry name** Model.Attachment.Template**Tablename** attachment_template**Inherit model or mixin**

Format

class anyblok_attachment.bloks.format.template.Format

Bases: anyblok.model.Template

Simple python format templating

Declaration type Model**Registry name** Model.Attachment.Template.Format**Tablename** attachment_template_format**Inherit model or mixin**

- <class 'anyblok.model.Template'>

field name	Description
uuid	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • nullable - False • Context: • Label - None • foreign_key - Model.Attachment.Template => uuid • default - <class 'anyblok.column.NoDefaultValue'> • Field type - <class 'anyblok.column.UUID'> • primary_key - True
contenttype	<ul style="list-style-type: none"> • is crypted - False • DB column name - None • size - 64 • nullable - False • Context: • Label - None • Field type - <class 'anyblok.column.String'> • default - <class 'anyblok.column.NoDefaultValue'> • foreign_key - None

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- [ADD] **report** blok: create versionned file from template
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- *Exhibit B - “Incompatible With Secondary Licenses” Notice*

4.1 1. Definitions

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CHAPTER 5

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