
AnyBlok / Attachment Documentation

Release 1.0.1

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Jan 11, 2018

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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

Tablename attachment

Registry name Model.Attachment

Inherit model or mixin

Documents

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

Bases: object

Declaration type Model

Tablename attachment_document

Registry name Model.Attachment.Document

Inherit model or mixin

field name	Description
previous_doc_uuid	- Context: - is crypted - False - Label - None - Field type - <class 'any-blok.column.UUID'> - default - <class 'anyblok.column.NoDefaultValue'> - DB column name - None - foreign_key - None
historied_at	- Field type - <class 'any-blok.column.DateTime'> - Context: - is auto updated - False - Label - None
filesize	- Context: - is crypted - False - Label - None - Field type - <class 'any-blok.column.Integer'> - default - <class 'anyblok.column.NoDefaultValue'> - DB column name - None - foreign_key - None
contenttype	- Context: - is crypted - False - Label - None - Field type - <class 'any-blok.column.String'> - size - 64 - default - <class 'anyblok.column.NoDefaultValue'> - DB column name - None - foreign_key - None
next_version	- Field type - <class 'any-blok.field.Function'> - Context: - fget - get_next_version - Label - None
hash	- Context: - is crypted - False - Label - None
2.1. Blok attachment	- Field type - <class 'any-blok.column.String'> - size - 256 - default - <class

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

Declaration type Model

Tablename attachment_document

Registry name Model.Attachment.Document.Latest

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

Tablename attachment_document

Registry name Model.Attachment.Document.History

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

Tablename attachment_wkhtml2pdf

Registry name Model.Attachment.WkHtml2Pdf

Inherit model or mixin

field name	Description
orientation	• selections: • Portrait - Portrait • Landscape - Landscape • Context: • is crypted - False • DB column name - None • Field type - <class ‘anyblok.column.Selection’> • size - 64 • nullable - False • default - Portrait • Label - None • foreign_key - None
grayscale	• Context: • is crypted - False • Label - None • Field type - <class ‘anyblok.column.Boolean’> • default - False • DB column name - None • foreign_key - None
javascript_delay	• Context: • is crypted - False • DB column name - None • Field type - <class ‘anyblok.column.Integer’> • nullable - False • default - 200 • Label - None • foreign_key - None
load_media_error_handling	• selections - get_error_handling • Context: • is crypted - False • DB column name - None • Field type - <class ‘anyblok.column.Selection’> • size - 64 • nullable - False • default - abort • Label - None • foreign_key - None
lowquality	• Context: • is crypted - False • Label - None • Field type - <class ‘anyblok.column.Boolean’>

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

Tablename attachment_wkhtml2pdf_page

Registry name Model.Attachment.WkHtml2Pdf.Page

Inherit model or mixin

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

Mixins

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

Bases: object

Declaration type Mixin

Inherit model or mixin

field name	Description
wkhtml2pdf_configuration	• model - Model.Attachment.WkHtml2Pdf • Context: • _remote_columns - None • info: • remote_model - Model.Attachment.WkHtml2Pdf • nullable - False • Field type - <class 'anyblok.relationship.Many2One'> • unique - False • Label - None • _column_names - None

check_if_file_must_be_generated (*document*)

Overwrite to check also if the configuration have changed

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`

Tablename `attachment_parser`

Registry name Model.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

Tablename attachment_template

Registry name Model.Attachment.Template

Inherit model or mixin

field name	Description
parser_from	• selections - get_parser_from • Context: • is crypted - False • DB column name - None • Field type - <class 'any-blok.column.Selection'> • size - 64 • nullable - False • default - model • Label - None • foreign_key - None
template_from	• selections - get_template_from • Context: • is crypted - False • DB column name - None • Field type - <class 'any-blok.column.Selection'> • size - 64 • nullable - False • default - path • Label - None • foreign_key - None
template_path	• Context: • is crypted - False • Label - None • Field type - <class 'any-blok.column.String'> • size - 64 • default - <class 'any-blok.column.NoDefaultValue'> • DB column name - None • foreign_key - None
filename	• Context: • is crypted - False • DB column name - None • Field type - <class 'any-blok.column.String'> • size - 64 • nullable - False • default - {doc.uuid}-{doc.version}-{date} • Label - None • foreign_key - None
updated_at	• Field type - <class 'any-blok.column.DateTime'> • Context: • nullable - False • is auto updated - True • Label - None
2.3. Blok report	• nullable - False • is auto updated - True • Label - 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

Tablename attachment_document

Registry name Model.Attachment.Document

Inherit model or mixin

field name	Description
template	• model - Model.Attachment.Template • Context: • _remote_columns - None • info: • remote_model - Model.Attachment.Template • Field type - <class 'anyblok.relationship.Many2One'> • unique - False • Label - None • _column_names - None

class anyblok_attachment.bloks.report.document.Latest

Bases: object

Declaration type Model

Tablename attachment_document

Registry name Model.Attachment.Document.Latest

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

- <class 'anyblok.model.Template'>

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

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3.1 1.0.1 (2018-01-11)

- [FIX] `Mixin.WkHtml2Pdf` check also if the configuration changed for `Template.check_if_file_must_be_generated`

3.2 1.0.0 (2018-01-10)

- [ADD] **attachment** blok: stock versionned file
- [ADD] **report** blok: create versionned file from template
- [ADD] **report-format** blok: template type
- [ADD] **wkhtml2pdf** blok: convert html to pdf in the template

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4.1 1. Definitions

4.1.1 1.1. “Contributor”

Means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

4.1.2 1.2. “Contributor Version”

Means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

4.1.3 1.3. “Contribution”

Means Covered Software of a particular Contributor.

4.1.4 1.4. “Covered Software”

Means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

4.1.5 1.5. “Incompatible With Secondary Licenses”

Means:

- **That the initial Contributor has attached the notice described in Exhibit B** to the Covered Software; or
- **That the Covered Software was made available under the terms of version 1.1** or earlier of the License, but not also under the terms of a Secondary License.

4.1.6 1.6. “Executable Form”

Means any form of the work other than Source Code Form.

4.1.7 1.7. “Larger Work”

Means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

4.1.8 1.8. “License”

Means this document.

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CHAPTER 5

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