
AnyBlok / Attachment Documentation

Release 1.1.1

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

1.6 Author

Jean-Sébastien Suzanne

1.7 Contributors

[Anybox](#) team:

- Jean-Sébastien Suzanne

[Sensee](#) team:

- Franck Bret
- Hugo Quezada

1.8 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()
        Do the python import for the Declaration of the model or other

    name = 'attachment'

    optional_by = []

    classmethod reload_declaration_module(reload)

    required = ['anyblok-core', 'anyblok-mixins']

    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
```

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```
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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment
- Tablename: attachment

Documents

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

Bases: object

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Document
- Tablename: attachment_document

Fields	
file_added_at	<ul style="list-style-type: none"> Type - anyblok.column.DateTime is auto updated - False default timezone - <UTC>
previous_versions	<ul style="list-style-type: none"> fget - 'get_previous_versions' Type - anyblok.field.Function
historied_at	<ul style="list-style-type: none"> Type - anyblok.column.DateTime is auto updated - False default timezone - <UTC>
uuid	<ul style="list-style-type: none"> native - None binary - False primary_key - True default - anyblok.column.NoDefaultValue Type - anyblok.column.UUID nullable - False
type	<ul style="list-style-type: none"> size - 64 Type - anyblok.column.Selection nullable - False default - anyblok.column.NoDefaultValue
previous_version	<ul style="list-style-type: none"> fget - 'get_previous_version' Type - anyblok.field.Function
version	<ul style="list-style-type: none"> size - 64 primary_key - True default - anyblok.column.NoDefaultValue Type - anyblok.column.String nullable - False
contenttype	<ul style="list-style-type: none"> size - 64 Type - anyblok.column.String default - anyblok.column.NoDefaultValue
next_version	<ul style="list-style-type: none"> fget - 'get_next_version' Type - anyblok.field.Function
previous_doc_uuid	
2.1. Blok attachment	<ul style="list-style-type: none"> native - None binary - None Type - anyblok.column.UUID default - anyblok.column.NoDefaultValue

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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Document.Latest
- Tablename: attachment_document
- Inherited Models or Mixins:
 - anyblok.model.Document
 - anyblok.mixin.ForbidDelete

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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Document.History
- Tablename: attachment_document
- Inherited Models or Mixins:
 - anyblok.model.Document
 - anyblok.mixin.ReadOnly

Mixins

class anyblok_attachment.bloks.attachment.mixin.**LatestDocument**
Bases: object

AnyBlok registration:

- Type: Mixin
- Registry name: Mixin.LatestDocument

Fields	
latest_document_uuid	<ul style="list-style-type: none">• native - None• binary - None• Type - anyblok.column.UUID• default - anyblok.column.NoDefaultValue
latest_document	<ul style="list-style-type: none">• fget - 'get_latest_document'• Type - anyblok.field.Function• fdel - 'del_latest_document'• fset - 'set_latest_document'

class anyblok_attachment.bloks.attachment.mixin.**VersionedDocument**

Bases: object

AnyBlok registration:

- Type: Mixin
- Registry name: Mixin.VersionedDocument

Fields	
versioned_document_uuid	<ul style="list-style-type: none"> • native - None • binary - None • Type - anyblok.column.UUID • default - anyblok.column.NoDefaultValue
versioned_document_version	<ul style="list-style-type: none"> • size - 64 • Type - anyblok.column.String • default - anyblok.column.NoDefaultValue
versioned_document	<ul style="list-style-type: none"> • fget - 'get_versioned_document' • Type - anyblok.field.Function • fdel - 'del_versioned_document' • fset - 'set_versioned_document'

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()

Do the python import for the Declaration of the model or other

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
```

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.WkHtml2Pdf
- Tablename: attachment_wkhtml2pdf

Fields	
minimu_font_size	<ul style="list-style-type: none"> Type - anyblok.column.Integer default - anyblok.column.NoDefaultValue
collate	<ul style="list-style-type: none"> Type - anyblok.column.Boolean default - True
page_offset	<ul style="list-style-type: none"> Type - anyblok.column.Integer nullable - False default - 0
encoding	<ul style="list-style-type: none"> size - 64 Type - anyblok.column.String nullable - False default - 'utf-8'
lowquality	<ul style="list-style-type: none"> Type - anyblok.column.Boolean default - False
copies	<ul style="list-style-type: none"> Type - anyblok.column.Integer nullable - False default - 1
margin_left	<ul style="list-style-type: none"> Type - anyblok.column.Integer nullable - False default - 10
label	<ul style="list-style-type: none"> size - 64 Type - anyblok.column.String nullable - False default - anyblok.column.NoDefaultValue
load_error_handling	<ul style="list-style-type: none"> selections - 'get_error_handling' size - 64 Type - anyblok.column.Selection nullable - False default - 'abort'
local_file_access	<ul style="list-style-type: none"> Type - anyblok.column.Boolean default - True
javascript	
2.2. Blok wkhtml2pdf	<ul style="list-style-type: none"> Type - anyblok.column.Boolean default - True
grayscale	<ul style="list-style-type: none"> Type - 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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.WkHtml2Pdf.Page
- Tablename: attachment_wkhtml2pdf_page

Fields	
size	<ul style="list-style-type: none"> • size - 64 • Type - anyblok.column.String • default - anyblok.column.NoDefaultValue
label	<ul style="list-style-type: none"> • size - 64 • primary_key - True • default - anyblok.column.NoDefaultValue • Type - anyblok.column.String • nullable - False
created_at	<ul style="list-style-type: none"> • is auto updated - False • Type - anyblok.column.DateTime • nullable - False • default timezone - <UTC>
height	<ul style="list-style-type: none"> • Type - anyblok.column.Integer • default - anyblok.column.NoDefaultValue
width	<ul style="list-style-type: none"> • Type - anyblok.column.Integer • default - anyblok.column.NoDefaultValue
updated_at	<ul style="list-style-type: none"> • is auto updated - True • Type - anyblok.column.DateTime • nullable - False • default timezone - <UTC>

Mixins

class anyblok_attachment.bloks.wkhtml2pdf.mixin.WkHtml2Pdf

Bases: object

AnyBlok registration:

- Type: Mixin
- Registry name: Mixin.WkHtml2Pdf

Fields	
wkhtml2pdf_configuration	<ul style="list-style-type: none">• index - False• model - <code>Model.Attachment.WkHtml2Pdf</code>• Type - <code>anyblok.relationship.Many2One</code>

`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 ()
        Do the python import for the Declaration of the model or other

    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:
```

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```
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

AnyBlok registration:

- Type: `Model`
- Registry name: `Model.Attachment.Parser`
- Tablename: `attachment_parser`

`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 instance
- `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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Template
- Tablename: attachment_template

Fields	
template_from	<ul style="list-style-type: none"> • selections - 'get_template_from' • size - 64 • Type - anyblok.column.Selection • nullable - False • default - 'path'
uuid	<ul style="list-style-type: none"> • native - None • binary - False • primary_key - True • default - <function uuid1 at 0x7f133c497400> • Type - anyblok.column.UUID • nullable - False
created_at	<ul style="list-style-type: none"> • is auto updated - False • Type - anyblok.column.DateTime • nullable - False • default timezone - <UTC>
type	<ul style="list-style-type: none"> • selections - 'get_template_type' • size - 64 • Type - anyblok.column.Selection • nullable - False • default - anyblok.column.NoDefaultValue
model	<ul style="list-style-type: none"> • foreign_key - Model.System.Model => name • size - 64 • Type - anyblok.column.String • nullable - False • default - anyblok.column.NoDefaultValue
filename	<ul style="list-style-type: none"> • size - 64 • Type - anyblok.column.String • nullable - False • default - '{doc.uuid}-{doc.version}-{date}'
parser_from	<ul style="list-style-type: none"> • selections - 'get_parser_from' • size - 64 • Type - anyblok.column.Selection • nullable - False • default - 'model'
updated_at	<ul style="list-style-type: none"> • is auto updated - True • Type - anyblok.column.DateTime • nullable - False • default timezone - <UTC>

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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Document
- Tablename: attachment_document

Fields	
template	<ul style="list-style-type: none"> • index - False • model - Model.Attachment.Template • Type - anyblok.relationship.Many2One

```
class anyblok_attachment.bloks.report.document.Latest
    Bases: object
```

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Document.Latest
- Tablename: attachment_document

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 ()
        Do the python import for the Declaration of the model or other

    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    \n    </head>\n    <body>\n        Hello world !!\n    </body>\n</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\xf2\x9cT\x08\xee#\x02\xe2\xbe\xa6\x8d'\n\x08\xcd\xa9;\xba2\x9c\x9dUF\x10'}
}
```

2.4.2 API doc

Template

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

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Template
- Tablename: attachment_template

Format

class anyblok_attachment.bloks.format.template.**Format**

Bases: anyblok.model.Template

Simple python format templating

AnyBlok registration:

- Type: Model
- Registry name: Model.Attachment.Template.Format
- Tablename: attachment_template_format
- Inherited Models or Mixins:
 - anyblok.model.Template

Fields	
contenttype	<ul style="list-style-type: none">• size - 64• Type - anyblok.column.String• nullable - False• default - anyblok.column.NoDefaultValue
uuid	<ul style="list-style-type: none">• native - None• binary - False• primary_key - True• default - anyblok.column.NoDefaultValue• Type - anyblok.column.UUID• nullable - False• foreign_key - Model.Attachment.Template => uuid

Contents

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 - 1.0.2 (2018-02-24)
 - 1.0.1 (2018-01-11)
 - 1.0.0 (2018-01-10)

3.1 1.1.1 (2018-06-05)

- Fix the mixins come from **anyblok_mixins**

3.2 1.1.0 (2018-05-16)

- [ADD] add Mixin `Mixin.LatestDocument` and `Mixin.VersionedDocument` to help the developer to get **latest_document** or **versioned_document**

3.3 1.0.2 (2018-02-24)

- [REF] Anyblok 0.17.0 changed setter to add application and application groups, So I had to adapt the existing to use new setter

3.4 1.0.1 (2018-01-11)

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

3.5 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

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”

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CHAPTER 5

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