
AnyBlok / Attachment Documentation

Release 1.2.0

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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 / 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

This blok Store documents in a table. The documents are historized each modification are saved. It is easy to get the latest or un historized version of one Document.

- 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

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'
```

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

Documments

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

Bases: object

AnyBlok registration:

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

Fields	
created_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - False • nullable - False • Type - anyblok.column.DateTime
previous_doc_uuid	<ul style="list-style-type: none"> • binary - None • default - anyblok.column.NoDefaultValue • native - None • Type - anyblok.column.UUID
type	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.Selection
file_added_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - False • Type - anyblok.column.DateTime
historied_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - False • Type - anyblok.column.DateTime
filesize	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • Type - anyblok.column.Integer
previous_version	<ul style="list-style-type: none"> • fget - 'get_previous_version' • Type - anyblok.field.Function
previous_doc_version	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • size - 64 • Type - anyblok.column.String
hash	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • size - 256 • Type - anyblok.column.String
version	<ul style="list-style-type: none"> • primary_key - True
2.1. Blok attachment	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.String

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

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

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	
created_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - False • nullable - False • Type - anyblok.column.DateTime
minimum_font_size	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • Type - anyblok.column.Integer
margin_top	<ul style="list-style-type: none"> • default - 10 • nullable - False • Type - anyblok.column.Integer
copies	<ul style="list-style-type: none"> • default - 1 • nullable - False • Type - anyblok.column.Integer
javascript_delay	<ul style="list-style-type: none"> • default - 200 • nullable - False • Type - anyblok.column.Integer
label	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.String
lowquality	<ul style="list-style-type: none"> • default - False • Type - anyblok.column.Boolean
load_error_handling	<ul style="list-style-type: none"> • selections - 'get_error_handling' • default - 'abort' • nullable - False • size - 64 • Type - anyblok.column.Selection
page_offset	<ul style="list-style-type: none"> • default - 0 • nullable - False • Type - anyblok.column.Integer
id	<ul style="list-style-type: none"> • primary_key - True • default - anyblok.column.NoDefaultValue
2.2. Blok wkhtml2pdf	<ul style="list-style-type: none"> • autoincrement - True • nullable - False • Type - anyblok.column.Integer
page	

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

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">• model - Model.Attachment.WkHtml2Pdf• index - False• Type - anyblok.relationship.Many2One

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	
created_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - False • nullable - False • Type - anyblok.column.DateTime
parser_from	<ul style="list-style-type: none"> • selections - 'get_parser_from' • default - 'model' • nullable - False • size - 64 • Type - anyblok.column.Selection
type	<ul style="list-style-type: none"> • selections - 'get_template_type' • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.Selection
template_from	<ul style="list-style-type: none"> • selections - 'get_template_from' • default - 'path' • nullable - False • size - 64 • Type - anyblok.column.Selection
model	<ul style="list-style-type: none"> • foreign_key - Model.System.Model => name • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.String
updated_at	<ul style="list-style-type: none"> • default timezone - <UTC> • is auto updated - True • nullable - False • Type - anyblok.column.DateTime
uuid	<ul style="list-style-type: none"> • primary_key - True • binary - False • default - <function uuid1 at 0x7f89a7f38400> • nullable - False • native - None • Type - anyblok.column.UUID
name	<ul style="list-style-type: none"> • default - anyblok.column.NoDefaultValue • nullable - False • size - 64 • Type - anyblok.column.String

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"> • model - Model.Attachment.Template • index - False • 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(
    name="template_name"
    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>'
        b'\n    </head>\n    <body>\n        Hello world !!\n    </body>\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\xf0\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

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

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 - *1.0.1 (2018-01-11)*
 - *1.0.0 (2018-01-10)*

3.1 1.2.0 (2018-09-14)

- Allow to get another field to represent the file
- PR #4: Added a column name on the template to identify them easily (@GohuHQ)
- PR #3: Fixed option name for wkhtmltopdf (@GohuHQ)

3.2 1.1.1 (2018-06-05)

- Fix the mixins come from **anyblok_mixins**

3.3 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**

3.4 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

3.5 1.0.1 (2018-01-11)

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

3.6 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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CHAPTER 5

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