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# **AnyBlok / Attachment Documentation**

***Release 2.1.0***

**jssuzanne**

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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](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](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 3.5** 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 = []
    pre_migration(latest_version)
        Call at update, before the automigration
```

**Warning:** You can not use the ORM

**Parameters latest\_version** – latest version installed, if the blok have not been installing the latest\_version will be None

```
classmethod reload_declaration_module(reload)
required = ['anyblok-core', 'anyblok-mixins']
required_by = ['attachment-postgres', 'report']
version = '2.0.0'
```

## 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 historied 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

### Documents

**class** anyblok\_attachment.bloks.attachment.document.**Document**

Bases: object

**AnyBlok registration:**

- Type: Model

- Registry name: Model.Attachment.Document
- Tablename: attachment\_document

Fields	
uuid	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.UUID</code></li> <li>• <code>primary_key</code> - <code>True</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>binary</code> - <code>False</code></li> <li>• <code>native</code> - <code>None</code></li> </ul>
version_number	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>primary_key</code> - <code>True</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>autoincrement</code> - <code>True</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> </ul>
version	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.field.Function</code></li> <li>• <code>fget</code> - <code>'get_version'</code></li> </ul>
created_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>is auto updated</code> - <code>False</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
historied_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>is auto updated</code> - <code>False</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
data	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Json</code></li> <li>• <code>default</code> - <code>builtins.dict</code></li> </ul>
file_added_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>is auto updated</code> - <code>False</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
filename	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>size</code> - <code>256</code></li> </ul>
contenttype	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>

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

```
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"><li>• Type - anyblok.column.UUID</li><li>• default - anyblok.column.NoDefaultValue</li><li>• binary - None</li><li>• native - None</li></ul>
versioned_document_version_number	<ul style="list-style-type: none"><li>• Type - anyblok.column.Integer</li><li>• default - anyblok.column.NoDefaultValue</li></ul>
versioned_document	<ul style="list-style-type: none"><li>• Type - anyblok.field.Function</li><li>• fget - 'get_versioned_document'</li><li>• fset - 'set_versioned_document'</li><li>• fdel - 'del_versioned_document'</li></ul>

## 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	
id	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>primary_key</code> - <code>True</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>autoincrement</code> - <code>True</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> </ul>
label	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>
created_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>is auto updated</code> - <code>False</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
updated_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>is auto updated</code> - <code>True</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
copies	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>1</code></li> </ul>
grayscale	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Boolean</code></li> <li>• <code>default</code> - <code>False</code></li> </ul>
lowquality	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Boolean</code></li> <li>• <code>default</code> - <code>False</code></li> </ul>
dpi	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> </ul>
page_offset	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>0</code></li> </ul>
minimum_font_size	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> </ul>
margin_bottom	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Integer</code></li> <li>• <code>nullable</code> - <code>False</code></li> </ul>



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

## 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"> <li>• Type - anyblok.relationship.Many2One</li> <li>• model - Model.Attachment.WkHtml2Pdf</li> <li>• index - False</li> </ul>

**`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:
```

(continues on next page)

(continued from previous page)

```

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 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

**AnyBlok registration:**

- Type: Model
- Registry name: Model.Attachment.Template
- Tablename: attachment\_template

Fields	
uuid	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.UUID</code></li> <li>• <code>primary_key</code> - <code>True</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>&lt;function uuid1 at 0x7f9280bb76a8&gt;</code></li> <li>• <code>binary</code> - <code>False</code></li> <li>• <code>native</code> - <code>None</code></li> </ul>
name	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>
created_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>is auto updated</code> - <code>False</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
updated_at	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.DateTime</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>is auto updated</code> - <code>True</code></li> <li>• <code>default timezone</code> - <code>&lt;UTC&gt;</code></li> </ul>
model	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>foreign_key</code> - <code>Model.System.Model =&gt; name</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>
filename	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.String</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>'{doc.uuid}-{doc.version}-{date}'</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>
type	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Selection</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>anyblok.column.NoDefaultValue</code></li> <li>• <code>selections</code> - <code>'get_template_type'</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>
template_from	
<b>2.3. Blok report</b>	<ul style="list-style-type: none"> <li>• Type - <code>anyblok.column.Selection</code></li> <li>• <code>nullable</code> - <code>False</code></li> <li>• <code>default</code> - <code>'path'</code></li> <li>• <code>selections</code> - <code>'get_template_from'</code></li> <li>• <code>size</code> - <code>64</code></li> </ul>

**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"><li>• Type - anyblok.relationship.Many2One</li><li>• model - Model.Attachment.Template</li><li>• index - False</li></ul>



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

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  - 1.2.0 (2018-09-14)
  - 1.1.1 (2018-06-05)
  - 1.1.0 (2018-05-16)
  - 1.0.2 (2018-02-24)
  - 1.0.1 (2018-01-11)
  - 1.0.0 (2018-01-10)



### 3.1 2.1.0 (2020-05-05)

- Removed **Python 3.4** capability
- Removed **Python 3.5** capability
- Refactored unittest, replaced nose by pytest
- Added **attachment\_postgres** blok, only for postgresql driver, the **LargeBinary** column is replaced by **LargeObject** column

### 3.2 2.0.0 (2018-11-28)

- Removed the sequence created by the document. Replaced it by a simple counter on latest document

**Note:** You can use this script before migration to update the database:

```
CREATE FUNCTION update_attachment() RETURNS void AS $$
    DECLARE
        -- declarations
        target RECORD;
    BEGIN
        FOR target IN select uuid, version from attachment_document where version_
↪number is null LOOP
            UPDATE attachment_document SET version_number = CAST(substring(target.
↪version from '..$') as Integer) WHERE uuid = target.uuid AND version = target.
↪version;
        END LOOP;
    END;
$$ LANGUAGE plpgsql;
```

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```
CREATE FUNCTION update_sequence() RETURNS void AS $$
    DECLARE
        -- declarations
        seq RECORD;
    BEGIN
        FOR seq IN select id, seq_name from system_sequence where code ilike
        → 'Attachment.Document#%' LOOP
            EXECUTE 'DROP SEQUENCE ' || quote_ident(seq.seq_name);
            DELETE FROM system_sequence where id = seq.id;
        END LOOP;
    END;
$$ LANGUAGE plpgsql;

ALTER TABLE attachment_document DROP CONSTRAINT anyblok_pk_attachment_document;
ALTER TABLE attachment_document ADD COLUMN version_number INTEGER;
select update_attachment();
select update_sequence();
ALTER TABLE attachment_document ADD PRIMARY KEY (uuid, version_number);
UPDATE system_blok SET installed_version = '2.0.0' WHERE name = 'attachment';
DROP FUNCTION update_attachment();
DROP FUNCTION update_sequence();
```

---

### 3.3 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)

### 3.4 1.1.1 (2018-06-05)

- Fix the mixins come from **anyblok\_mixins**

### 3.5 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**

### 3.6 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

### 3.7 1.0.1 (2018-01-11)

- [FIX] `Mixin.WkHtml2Pdf` check also if the configuration changed for **Template.check\_if\_file\_must\_be\_generated**

### 3.8 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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