
Anyblok / Marshmallow Documentation

Release 2.2.1

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Information about the AnyBlok / Marshmallow project.

1.1 Project Homepage

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

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

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

1.2 Project Status

AnyBlok with Marshmallow 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_marshallow
```

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_marshmallow/tests
```

1.5 Dependencies

AnyBlok works with **Python 3.3** and later. The install process will ensure that [AnyBlok](#), [marshmallow >= 3.0.0](#) and [marshmallow-sqlalchemy](#) are installed, in addition to other dependencies. The latest version of them is strongly recommended.

1.6 Contributing (hackers needed!)

Anyblok / Marshmallow 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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- *Memento*
 - *Declare your **AnyBlok** model*
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 - *(De)serialize your data and validate it*
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- *model option*
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- *Use the field JsonCollection*

2.1 Declare your AnyBlok model

```
from anyblok.column import Integer, String
from anyblok.relationship import Many2One, Many2Many
from anyblok import Declarations

@Declarations.register(Declarations.Model)
class City:

    id = Integer(primary_key=True)
    name = String(nullable=False)
    zipcode = String(nullable=False)

    def __repr__(self):
        return '<City(name={self.name!r})>'.format(self=self)

@Declarations.register(Declarations.Model)
class Tag:

    id = Integer(primary_key=True)
    name = String(nullable=False)

    def __repr__(self):
        return '<Tag(name={self.name!r})>'.format(self=self)

@Declarations.register(Declarations.Model)
class Customer:
    id = Integer(primary_key=True)
    name = String(nullable=False)
    tags = Many2Many(model=Declarations.Model.Tag)
```

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```

def __repr__(self):
    return '<Customer(name={self.name!r}, '
        'tags={self.tags!r})>'.format(self=self)

@Declarations.register(Declarations.Model)
class Address:

    id = Integer(primary_key=True)
    street = String(nullable=False)
    city = Many2One(model=Declarations.Model.City, nullable=False)
    customer = Many2One(
        model=Declarations.Model.Customer, nullable=False,
        one2many="addresses")

```

Warning: The AnyBlok model must be declared in a blok

2.2 Declare your schema

```

from anyblok_marshmallow import SchemaWrapper, PostLoadSchema, Nested

class CitySchema(SchemaWrapper):
    model = 'Model.City'

class TagSchema(SchemaWrapper):
    model = 'Model.Tag'

class AddressSchema(SchemaWrapper):
    model = 'Model.Address'

class Schema:
    # Add some marshmallow fields or behaviours

    # follow the relationship Many2One and One2One
    city = Nested(CitySchema)

class CustomerSchema(SchemaWrapper):
    model = 'Model.Customer'
    # optionally attach an AnyBlok registry
    # to use for serialization, deserialization and validation
    registry = registry

class Schema(PostLoadSchema):
    # follow the relationship One2Many and Many2Many
    # - the many=True is required because it is *2Many
    # - exclude is used to forbid the recurse loop
    addresses = Nested(AddressSchema, many=True, exclude=('customer', ))
    tags = Nested(TagSchema, many=True)

```

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```
customer_schema = CustomerSchema()
```

Note: New in version **1.1.0** the Nested field must come from **anyblok_marshmallow**, because **marshmallow** cache the Nested field with the context. And the context is not propagated again if it changed

Note: Ref in version **1.4.0**, `post_load_return_instance` was replaced by the mixin class `PostLoadSchema`

Note: Ref in version **2.1.0**, `ModelSchema` was replaced by `SchemaWrapper`. This action break the compatibility with the previous version, but allow to follow the upgrade of **marshmallow**

2.3 (De)serialize your data and validate it

```
customer = registry.Customer.insert(name="JS Suzanne")
tag1 = registry.Tag.insert(name="tag 1")
customer.tags.append(tag1)
tag2 = registry.Tag.insert(name="tag 2")
customer.tags.append(tag2)
rouen = registry.City.insert(name="Rouen", zipcode="76000")
paris = registry.City.insert(name="Paris", zipcode="75000")
registry.Address.insert(customer=customer, street="Somewhere", city=rouen)
registry.Address.insert(customer=customer, street="Another place", city=paris)

dump_data = customer_schema.dump(customer).data
# {
#     'id': 1,
#     'name': 'JS Suzanne',
#     'tags': [
#         {
#             'id': 1,
#             'name': 'tag 1',
#         },
#         {
#             'id': 2,
#             'name': 'tag 2',
#         },
#     ],
#     'addresses': [
#         {
#             'id': 1
#             'street': 'Somewhere'
#             'city': {
#                 'id': 1,
#                 'name': 'Rouen',
#                 'zipcode': '76000',
#             },
#         },
#     ],
# }
```

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```
#         },
#         {
#             'id': 2
#             'street': 'Another place'
#             'city': {
#                 'id': 2,
#                 'name': 'Paris',
#                 'zipcode': '75000',
#             },
#         },
#     ],
# }

customer_schema.load(dump_data).data
# <Customer(name='JS Suzanne' tags=[<Tag(name='tag 1')>, <Tag (name='tag 2')>])>

errors = customer_schema.validate(dump_data)
# dict with all the validating errors
```

Note: We have an instance of the model cause of the mixin `PostLoadSchema`

2.4 Give the registry

The schema need to have the registry.

If no registry found when the de(serialization) or validation then the **RegistryNotFound** exception will be raised.

2.4.1 Add the registry by the class attribute

This is the solution given in the main exemple:

```
class CustomerSchema(SchemaWrapper):
    model = 'Model.Customer'
    registry = registry
```

2.4.2 Add the registry during init

This solution is use during the instantiation

```
customer_schema = CustomerSchema(registry=registry)
```

2.4.3 Add the registry by the context

This solution is use during the instantiation or after

```
customer_schema = CustomerSchema(context={'registry': registry})
```

or

```
customer_schema = CustomerSchema()
customer_schema.context['registry'] = registry
```

2.4.4 Add the registry when the de(serialization or validator is called

```
customer_schema.dumps(customer, registry=registry)
customer_schema.dump(customer, registry=registry)
customer_schema.loads(dump_data, registry=registry)
customer_schema.load(dump_data, registry=registry)
customer_schema.validate(dump_data, registry=registry)
```

2.5 model option

This option add in the model name. As the registry, this option can be passed by definition, initialization, context or during the call of the (de)serialization / validation

```
class AnySchema (SchemaWrapper):
    model = "Model.Customer"
```

or

```
any_schema = AnySchema(model="Model.customer")
```

or

```
any_schema.context['model'] = "Model.Customer"
```

or

```
any_schema.dumps(instance, model="Model.Customer")
any_schema.dump(instance, model="Model.Customer")
any_schema.loads(dump_data, model="Model.Customer")
any_schema.load(dump_data, model="Model.Customer")
any_schema.validate(dump_data, model="Model.Customer")
```

2.6 only_primary_key option

This option add in the only argument the primary keys of the model. As the registry, this option can be passed by definition, initialization, context or during the call of the (de)serialization / validation

```
class CustomerSchema (SchemaWrapper):
    model = "Model.Customer"
    only_primary_key = True
```

or

```
customer_schema = CustomerSchema(only_primary_key=True)
```

or

```
customer_schema.context['only_primary_key'] = True
```

or

```
customer_schema.dumps(instance, only_primary_key=True)
customer_schema.dump(instance, only_primary_key=True)
customer_schema.loads(dump_data, only_primary_key=True)
customer_schema.load(dump_data, only_primary_key=True)
customer_schema.validate(dump_data, only_primary_key=True)
```

2.7 required_fields option

This option force the generated fields, and only them to be required.

```
class CustomerSchema(SchemaWrapper):
    model = "Model.Customer"
    required_fields = True
    # or required_fields = [ list of fieldname ]
```

or

```
customer_schema = CustomerSchema(required_fields=True)
```

or

```
customer_schema.context['required_fields'] = True
```

or

```
customer_schema.loads(dump_data, required_fields=True)
customer_schema.load(dump_data, required_fields=True)
customer_schema.validate(dump_data, required_fields=True)
```

Note: All the attributes can take **True** or the list of the fieldname to be required

2.8 Use the field JsonCollection

This field allow the schema to inspect an AnyBlok.fields.Json in an any specific instance to validate the value.

AnyBlok models:

```
@register(Model)
class Template:
    name = anyblok.column.String(primary_key=True)
    properties = anyblok.column.Json(default={})

@register(Model)
class SaleOrder:
    id = anyblok.column.Integer(primary_key=True)
    number = anyblok.column.Integer(nullable=False)
    discount = anyblok.column.Integer()
```


AnyBlok / Marchmallow schema:

```
class SaleOrderSchema(SchemaWrapper):
    model = 'Model.SaleOrder'

    class Schema:
        discount = JsonCollection(
            fieldname='properties',
            keys=['allowed_discount'],
            cls_or_instance_type=marshmallow.fields.Integer(required=True)
        )
```

Use:

```
goodcustomer = registry.Template.insert(
    name='Good customer',
    properties={'allowed_discount': [10, 15, 30]}
)
customer = registry.Template.insert(
    name='Customer',
    properties={'allowed_discount': [0, 5, 10]}
)
badcustomer = registry.Template.insert(
    name='Bad customer',
    properties={'allowed_discount': [0]}
)

schema = SaleOrderSchema(registry=registry)

-----

data = schema.load(
    {
        number='SO0001',
        discount=10,
    },
    instances={'default': goodcustomer}
)

-----

data = schema.load(
    {
        number='SO0001',
        discount=10,
    },
    instances={'default': customer}
)
==> error = {}

-----

data = schema.load(
    {
        number='SO0001',
        discount=10,
    },
    instances={'default': badcustomer}
```

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```
)  
==> error = {'discount': ['Not a valid choice']}
```

Contents

- *Exceptions*
 - *RegistryNotFound*
- *Fields*
 - *Nested*
 - *File*
 - *Text*
 - *JsonCollection*
 - *PhoneNumer*
 - *Country*
 - *IntegerField*
- *Schema*
 - *update_from_kwargs*
 - *format_field*
 - *ModelConverter*
 - *TemplateSchema*
 - *PostLoadSchema*
 - *SchemaWrapper*

3.1 RegistryNotFound

exception `anyblok_marshmallow.exceptions.RegistryNotFound`

Bases: `Exception`

Exception raised when no registry is found to build schema

with_traceback()

Exception.with_traceback(tb) – set `self.__traceback__` to `tb` and return `self`.

4.1 Nested

class anyblok_marshmallow.fields.**Nested** (*nested*, *default=<marshmallow.missing>*, *exclude=()*, *only=None*, ***kwargs*)

Bases: marshmallow.fields.Nested

Inherit marshmallow fields.Nested

context

The context dictionary for the parent Schema.

deserialize (*value*, *attr=None*, *data=None*)

Deserialize *value*.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (*key*, ***kwargs*)

A helper method that simply raises a *ValidationError*.

get_value (*attr*, *obj*, *accessor=None*, *default=<marshmallow.missing>*)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

schema

Overload the super property to remove cache

it is the only way to propagate the context at each call

serialize (*attr*, *obj*, *accessor=None*)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.

- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

4.2 File

```
class anyblok_marshmallow.fields.File(default=<marshmallow.missing>, attribute=None,
                                       load_from=None, dump_to=None, error=None, validate=None,
                                       required=False, allow_none=None, load_only=False,
                                       dump_only=False, missing=<marshmallow.missing>,
                                       error_messages=None, **metadata)
```

Bases: `marshmallow.fields.Field`

context

The context dictionary for the parent Schema.

deserialize (*value*, *attr=None*, *data=None*)

Deserialize value.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (*key*, ***kwargs*)

A helper method that simply raises a *ValidationError*.

get_value (*attr*, *obj*, *accessor=None*, *default=<marshmallow.missing>*)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

serialize (*attr*, *obj*, *accessor=None*)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.
- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

4.3 Text

```
class anyblok_marshmallow.fields.Text(default=<marshmallow.missing>, attribute=None,
                                       load_from=None, dump_to=None, error=None, validate=None,
                                       required=False, allow_none=None, load_only=False,
                                       dump_only=False, missing=<marshmallow.missing>,
                                       error_messages=None, **metadata)
```

Bases: `marshmallow.fields.String`

Simple field use to distinct by the class *String* and *Text*

context

The context dictionary for the parent Schema.

deserialize (*value*, *attr=None*, *data=None*)

Deserialize value.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (*key*, ***kwargs*)

A helper method that simply raises a *ValidationError*.

get_value (*attr*, *obj*, *accessor=None*, *default=<marshmallow.missing>*)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

serialize (*attr*, *obj*, *accessor=None*)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.
- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

4.4 JsonCollection

```
class anyblok_marshmallow.fields.JsonCollection (fieldname=None,      keys=None,
                                                  instance='default',
                                                  cls_or_instance_type=<class
                                                  'marshmallow.fields.String'>, *args,
                                                  **kwargs)
```

Bases: marshmallow.fields.Field

context

The context dictionary for the parent Schema.

deserialize (*value*, *attr=None*, *data=None*)

Deserialize value.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (*key*, ***kwargs*)

A helper method that simply raises a *ValidationError*.

get_value (*attr*, *obj*, *accessor=None*, *default=<marshmallow.missing>*)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

serialize (*attr*, *obj*, *accessor=None*)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.
- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

4.5 PhoneNumber

4.6 Country

```
class anyblok_marshmallow.fields.Country (default=<marshmallow.missing>,          at-
                                         tribute=None,                        load_from=None,
                                         dump_to=None, error=None, validate=None,
                                         required=False,          allow_none=None,
                                         load_only=False,         dump_only=False,
                                         missing=<marshmallow.missing>,      er-
                                         ror_messages=None, **metadata)
```

Bases: marshmallow.fields.String

context

The context dictionary for the parent Schema.

deserialize (*value*, *attr=None*, *data=None*)

Deserialize value.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (*key*, ***kwargs*)

A helper method that simply raises a *ValidationError*.

get_value (*attr*, *obj*, *accessor=None*, *default=<marshmallow.missing>*)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

serialize (*attr*, *obj*, *accessor=None*)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.
- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

4.7 InstanceField

```
class anyblok_marshmallow.fields.Country (default=<marshmallow.missing>,          at-
                                         tribute=None,                        load_from=None,
                                         dump_to=None, error=None, validate=None,
                                         required=False,                    allow_none=None,
                                         load_only=False,                    dump_only=False,
                                         missing=<marshmallow.missing>,          er-
                                         ror_messages=None, **metadata)
```

Bases: marshmallow.fields.String

context

The context dictionary for the parent Schema.

deserialize (value, attr=None, data=None)

Deserialize value.

Raises `ValidationError` – If an invalid value is passed or if a required value is missing.

fail (key, **kwargs)

A helper method that simply raises a *ValidationError*.

get_value (attr, obj, accessor=None, default=<marshmallow.missing>)

Return the value for a given key from an object.

root

Reference to the *Schema* that this field belongs to even if it is buried in a *List*. Return *None* for unbound fields.

serialize (attr, obj, accessor=None)

Pulls the value for the given key from the object, applies the field's formatting and returns the result.

Parameters

- **attr** (*str*) – The attribute or key to get from the object.
- **obj** (*str*) – The object to pull the key from.
- **accessor** (*callable*) – Function used to pull values from obj.

Raises `ValidationError` – In case of formatting problem

5.1 update_from_kwargs

`anyblok_marshmallow.schema.update_from_kwargs(*entries)`
decorator to get temporary the value in kwargs and put it in schema

Params `entries` array of entry name to take from the kwargs

5.2 format_field

`anyblok_marshmallow.schema.format_fields(x)`
remove the anyblok prefix from the field name

5.3 ModelConverter

class `anyblok_marshmallow.schema.ModelConverter(schema_cls=None)`
Bases: `marshmallow_sqlalchemy.convert.ModelConverter`

Overwrite the `ModelConverter` class of `marshmallow-sqlalchemy`

The goal is to fix the fieldname, because they are prefixed.

fields_for_model (`Model`, `**kwargs`)

Overwrite the method and remove prefix of the field name

5.4 TemplateSchema

class `anyblok_marshmallow.schema.TemplateSchema`
Bases: `object`

Base class of Schema generated by SchemaWrapper

OPTIONS_CLASS

alias of `marshmallow_sqlalchemy.schema.ModelSchemaOpts`

5.5 PostLoadSchema

class `anyblok_marshmallow.schema.PostLoadSchema`

Bases: `object`

Return the AnyBlok instance from marshmallow deserialize

5.6 SchemaWrapper

class `anyblok_marshmallow.schema.SchemaWrapper(*args, **kwargs)`

Bases: `marshmallow.base.SchemaABC`

Schema Wrapper to generate marshmallow schema

```
class MySchema(SchemaWrapper):
    model = 'Model.Name'
```

the wrapper implement the **marshmallow.base.SchemaABC** abstract class. And call the methods of the marshmallow schema with the same parameter

Some class attributes can be added to improve the schema:

- **model**: str, the registry name of the AnyBlok model
- **required_fields**: list of the field which become required In this case the anyblok columns are not required but schema force them to be required
- **registry**: the anyblok registry, only if you know it
- **only_primary_key**: boolean, if True the marshmallow parameter only will be filled with the name of the primary keys.

Note: The model and registry are required to generate the schema. they can be defined by class attribute, parameter in the methods (load, loads, validate, dump, dumps) or in the context attribute.

generate_marshmallow_instance()

Generate the real mashmallow-sqlalchemy schema

schema

property to get the real schema

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- 1.1.0 (2017-11-02)
- 1.0.2 (2017-10-25)
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6.1 2.2.1 (2018-10-26)

- Fixed du of Marshmallow 3.0.0b19 release

6.2 2.2.0 (2018-10-17)

- Fixed the conversion of type between **AnyBlok.Column** and **marshmallow.Field**

6.3 2.1.0 (2018-09-26)

- Fixed the compatibility with **Marshmallow > 3.0.0b8**
- Removed `ModelSchema` class
- Added `SchemaWrapper`, this is the best way to defined a generated schema with the **marshmallow-sqlalchemy** library

Warning: This version break the compatibility with previous version, in the only goal to be adapted with the latest version of **marshmallow**

6.4 2.0.1 (2018-06-07)

- Fix `required_field` put `allow_none` to `False`

6.5 2.0.0 (2018-05-30)

- Add `JsonCollection` field, Allow to add a check in function of an collection stored in a `AnyBlok.fields.Json`
- Add `Text` field, to represent an `anyblok.column.Text`
- Migration of the code and unit test to `marshmallow 3.0.0`
- Add Email matching for `anyblok.column.Email`
- Add URL matching for `anyblok.column.URL`
- Add `PhoneNumber` matching for `anyblok.column.PhoneNumber`
- Add Country matching for `anyblok.column.Country`
- Add `required_fields` option
- Add `InstanceField`

6.6 1.4.0 (2018-04-07)

- Replace `post_load_return_instance` method by `PostLoadSchema` class
- In the case of the field **Selection**, the validator **OneOf** is applied with the available values come from the `AnyBlok` columns
- Replace `marshmallow_sqlalchemy.fields.Related` by `anyblok_marshmallow.fields.Nested`. The goal is to improve the consistent between all field in the schema

6.7 1.3.0 (2017-12-23)

- [ADD] unittest on some case
- [FIX] `AnyBlok` `field.Function` is return as `MarshMallow` `fields.Raw`
- [ADD] `fields.File`, type to encode and decode to/from base 64

6.8 1.2.0 (2017-11-30)

- [REF] decrease complexity
- [IMP] Add `validates_schema` on `ModelSchema` to automaticly check if the field exist on the model

6.9 1.1.0 (2017-11-02)

- Add option put only the primary keys
- Fix the Front page
- REF model option, can be given by another way than `Meta`
- Put `RegistryNotFound` in exceptions
- Add `Nested` field, this field is not and have not to be cached

6.10 1.0.2 (2017-10-25)

- Fix pypi documentation

6.11 1.0.0 (2017-10-24)

- Add marshmallow schema for AnyBlok for:
 - Serialization
 - Deserialization
 - Validation

CHAPTER 7

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