
dokomoforms Documentation

Release

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dokomoforms package

1.1 Subpackages

1.1.1 dokomoforms.handlers package

Subpackages

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Subpackages

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Module contents

Submodules

dokomoforms.handlers.auth module

dokomoforms.handlers.debug module

dokomoforms.handlers.root module

dokomoforms.handlers.util module

Module contents

1.1.2 dokomoforms.models package

Submodules

dokomoforms.models.answer module

Answer models.

class dokomoforms.models.answer.**Answer** (***kwargs*)

Bases: *dokomoforms.models.util.Base*

An Answer is a response to a SurveyNode.

An Answer can be one of an answer, an “other” response or a “don’t know” response. Answer.response abstracts over these 3 possibilities.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance’s class are allowed. These could be, for example, any mapped columns or relationships.

allow_dont_know

allow_multiple

allow_other

answer

The answer. Could be the same as *main_answer* in simple cases.

This property is the most useful representation available of the answer. In the simplest case it is just a synonym for *main_answer*. It could otherwise be a dictionary or another model.

answer_metadata

answer_number

answer_type**deleted****dont_know**

A text field containing “don’t know” responses.

id**last_update_time****main_answer**

The representative part of a provided answer.

The `main_answer` is the only answer for simple types (integer, text, etc.) and for other types is the part of the answer that is most important. In practice, the `main_answer` is special only in that all Answer models have it, which is necessary for certain constraints and for the response property.

other

A text field containing “other” responses.

question_id**question_title****repeatable**

response = `OrderedDict([('type_constraint', <sqlalchemy.orm.attributes.InstrumentedAttribute object at 0x7f8ec0d54a...)`

save_time**submission_id****survey_containing_id****survey_id****survey_node****survey_node_containing_survey_id****survey_node_id****type_constraint**

class `dokomoforms.models.answer.DateAnswer` (***kwargs*)

Bases: `dokomoforms.models.answer._AnswerMixin`, `dokomoforms.models.answer.Answer`

A DATE answer.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance’s class are allowed. These could be, for example, any mapped columns or relationships.

allow_dont_know**allow_multiple****allow_other****answer****answer_metadata****answer_number**

`answer_type`
`deleted`
`dont_know`
`id`
`last_update_time`
`main_answer`
`other`
`question_id`
`question_title`
`repeatable`
`save_time`
`submission_id`
`survey_containing_id`
`survey_id`
`survey_node`
`survey_node_containing_survey_id`
`survey_node_id`
`the_allow_dont_know`
`the_allow_other`
`type_constraint`

class `dokomoforms.models.answer.DecimalAnswer(**kwargs)`

Bases: `dokomoforms.models.answer._AnswerMixin`, [*dokomoforms.models.answer.Answer*](#)

A NUMERIC answer.

`__init__` (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_dont_know`
`allow_multiple`
`allow_other`
`answer`
`answer_metadata`
`answer_number`
`answer_type`
`deleted`
`dont_know`

```

id
last_update_time
main_answer
other
question_id
question_title
repeatable
save_time
submission_id
survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
the_allow_dont_know
the_allow_other
type_constraint

```

```
class dokomoforms.models.answer.FacilityAnswer(**kwargs)
```

Bases: dokomoforms.models.answer._AnswerMixin, *dokomoforms.models.answer.Answer*

A facility answer (a la Revisit).

FacilityAnswer.answer is a dictionary with 4 keys: facility_location, facility_id, facility_name, facility_sector

facility_location accepts input in the form {

```
    'lng': <longitude>, 'lat': <latitude>
```

} and outputs a GeoJSON.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_dont_know
```

```
allow_multiple
```

```
allow_other
```

```
answer = OrderedDict([('facility_location', <sqlalchemy.orm.attributes.InstrumentedAttribute object at 0x7f8ec0c60200>)])
```

```
answer_metadata
```

```
answer_number
```

```
answer_type
```

```
deleted
```

dont_know
facility_id
facility_name
facility_sector
geo_json
id
last_update_time
main_answer
other
question_id
question_title
repeatable
save_time
submission_id
survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
the_allow_dont_know
the_allow_other
type_constraint

class dokomoforms.models.answer.**IntegerAnswer** (**kwargs)
Bases: dokomoforms.models.answer._AnswerMixin, *dokomoforms.models.answer.Answer*
An INTEGER answer (signed 4 byte).

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_dont_know

allow_multiple

allow_other

answer

answer_metadata

answer_number

answer_type

```

deleted
dont_know
id
last_update_time
main_answer
other
question_id
question_title
repeatable
save_time
submission_id
survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
the_allow_dont_know
the_allow_other
type_constraint

```

```
class dokomoforms.models.answer.LocationAnswer(**kwargs)
```

Bases: dokomoforms.models.answer._AnswerMixin, *dokomoforms.models.answer.Answer*

A GEOMETRY('POINT', 4326) answer.

Accepts input in the form {

```
    'lng': <longitude>, 'lat': <latitude>
```

```
}
```

The output is a GeoJSON.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_dont_know
```

```
allow_multiple
```

```
allow_other
```

```
answer
```

```
answer_metadata
```

```
answer_number
```

`answer_type`
`deleted`
`dont_know`
`geo_json`
`id`
`last_update_time`
`main_answer`
`other`
`question_id`
`question_title`
`repeatable`
`save_time`
`submission_id`
`survey_containing_id`
`survey_id`
`survey_node`
`survey_node_containing_survey_id`
`survey_node_id`
`the_allow_dont_know`
`the_allow_other`
`type_constraint`

```
class dokomoforms.models.answer.MultipleChoiceAnswer (**kwargs)
    Bases: dokomoforms.models.answer._AnswerMixin, dokomoforms.models.answer.Answer
```

A Choice answer.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_dont_know`

`allow_multiple`

`allow_other`

`answer`

`answer_metadata`

`answer_number`

`answer_type`

`choice`

```

deleted
dont_know
id
last_update_time
main_answer
other
question_id
question_title
repeatable
save_time
submission_id
survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
the_allow_dont_know
the_allow_other
the_question_id
the_submission_id
the_survey_node_id
type_constraint

```

```
class dokomoforms.models.answer.Photo(**kwargs)
```

Bases: *dokomoforms.models.util.Base*

A BYTEA holding an image.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
created_on
```

```
deleted
```

```
id
```

```
image
```

```
mime_type
```

```
class dokomoforms.models.answer.PhotoAnswer (**kwargs)
    Bases: dokomoforms.models.answer._AnswerMixin, dokomoforms.models.answer.Answer

    A photo answer (the id of a Photo).

    __init__ (**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.

    actual_photo_id
    allow_dont_know
    allow_multiple
    allow_other
    answer
    answer_metadata
    answer_number
    answer_type
    deleted
    dont_know
    id
    last_update_time
    main_answer
    other
    photo
    question_id
    question_title
    repeatable
    save_time
    submission_id
    survey_containing_id
    survey_id
    survey_node
    survey_node_containing_survey_id
    survey_node_id
    the_allow_dont_know
    the_allow_other
    type_constraint
```

```

class dokomoforms.models.answer.TextAnswer (**kwargs)
    Bases: dokomoforms.models.answer._AnswerMixin, dokomoforms.models.answer.Answer

    A TEXT answer.

    __init__ (**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.

    allow_dont_know
    allow_multiple
    allow_other
    answer
    answer_metadata
    answer_number
    answer_type
    deleted
    dont_know
    id
    last_update_time
    main_answer
    other
    question_id
    question_title
    repeatable
    save_time
    submission_id
    survey_containing_id
    survey_id
    survey_node
    survey_node_containing_survey_id
    survey_node_id
    the_allow_dont_know
    the_allow_other
    type_constraint

class dokomoforms.models.answer.TimeAnswer (**kwargs)
    Bases: dokomoforms.models.answer._AnswerMixin, dokomoforms.models.answer.Answer

    A TIME WITH TIME ZONE answer.

```

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_dont_know`

`allow_multiple`

`allow_other`

`answer`

`answer_metadata`

`answer_number`

`answer_type`

`deleted`

`dont_know`

`id`

`last_update_time`

`main_answer`

`other`

`question_id`

`question_title`

`repeatable`

`save_time`

`submission_id`

`survey_containing_id`

`survey_id`

`survey_node`

`survey_node_containing_survey_id`

`survey_node_id`

`the_allow_dont_know`

`the_allow_other`

`type_constraint`

class dokomoforms.models.answer.**TimestampAnswer** (**kwargs)

Bases: dokomoforms.models.answer._AnswerMixin, *dokomoforms.models.answer.Answer*

A TIMESTAMP WITH TIME ZONE answer.

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_dont_know
allow_multiple
allow_other
answer
answer_metadata
answer_number
answer_type
deleted
dont_know
id
last_update_time
main_answer
other
question_id
question_title
repeatable
save_time
submission_id
survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
the_allow_dont_know
the_allow_other
type_constraint
```

`dokomoforms.models.answer.add_new_photo_to_session(session, *, id, **kwargs)`
Create a new Photo and update the referenced PhotoAnswer.

`dokomoforms.models.answer.construct_answer(*, type_constraint: str, **kwargs) → dokomoforms.models.answer.Answer`
Return a subclass of `dokomoforms.models.answer.Answer`.

The subclass is determined by the `type_constraint` parameter. This utility function makes it easy to create an instance of an Answer subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **type_constraint** – the type of the answer. Must be one of the keys of `dokomoforms.models.answer.ANSWER_TYPES`
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Answer subtypes

Raises `dokomoforms.exc.NotAnAnswerTypeError`

dokomoforms.models.column_properties module

Extra properties for models.

These could not be defined inline with the models do to import issues. See http://docs.sqlalchemy.org/en/rel_1_0/orm/mapped_sql_expr.html#using-column-property

`dokomoforms.models.column_properties.answer_avg` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the average of the answers.

`dokomoforms.models.column_properties.answer_max` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the maximum answer.

`dokomoforms.models.column_properties.answer_min` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the minimum answer.

`dokomoforms.models.column_properties.answer_mode` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the mode of the answers.

`dokomoforms.models.column_properties.answer_stddev_pop` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the population standard deviation of the answers.

`dokomoforms.models.column_properties.answer_stddev_samp` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the sample standard deviation of the answers.

`dokomoforms.models.column_properties.answer_sum` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the sum of the answers.

`dokomoforms.models.column_properties.generate_question_stats` (*survey*)

Get answer statistics for the nodes in a survey.

dokomoforms.models.node module

A Node is either a note or a question and is independent of a Survey.

class `dokomoforms.models.node.Choice` (***kwargs*)

Bases: `dokomoforms.models.util.Base`

A choice for a MultipleChoiceQuestion.

Models a choice for a `dokomoforms.models.survey.MultipleChoiceQuestion`.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
choice_number
choice_text
deleted
id
last_update_time
question_id
question_languages
```

```
class dokomoforms.models.node.DateQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A date question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint
```

```
class dokomoforms.models.node.DecimalQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A decimal question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
```

`allow_other`
`deleted`
`hint`
`id`
`languages`
`last_update_time`
`logic`
`the_languages`
`the_type_constraint`
`title`
`type_constraint`

```
class dokomoforms.models.node.FacilityQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A facility question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`
`allow_other`
`deleted`
`hint`
`id`
`languages`
`last_update_time`
`logic`
`the_languages`
`the_type_constraint`
`title`
`type_constraint`

```
class dokomoforms.models.node.IntegerQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A integer question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint
```

```
class dokomoforms.models.node.LocationQuestion(**kwargs)
```

Bases: dokomoforms.models.node._QuestionMixin, [dokomoforms.models.node.Question](#)

A location question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint
```

```
class dokomoforms.models.node.MultipleChoiceQuestion(**kwargs)
```

Bases: dokomoforms.models.node._QuestionMixin, [dokomoforms.models.node.Question](#)

A multiple_choice question.

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`

`allow_other`

`choices`

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`node_languages`

`the_languages`

`the_type_constraint`

`title`

`type_constraint`

class `dokomoforms.models.node.Node` (**kwargs)

Bases: `dokomoforms.models.util.Base`

A node is a Note or Question independent of any Survey.

A node is its own entity. A node can be a `dokomoforms.models.survey.Note` or a `dokomoforms.models.survey.Question`.

You can use this class for querying, e.g. `session.query(Node).filter_by(title='Some Title')`

To create the specific kind of Node you want, use `dokomoforms.models.survey.node.construct_node`.

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`title`

type_constraint

```
class dokomoforms.models.node.Note(**kwargs)
```

Bases: *dokomoforms.models.node.Node*

Notes provide information interspersed with survey questions.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

deleted

hint

id

languages

last_update_time

logic

the_type_constraint

title

type_constraint

```
class dokomoforms.models.node.PhotoQuestion(**kwargs)
```

Bases: *dokomoforms.models.node._QuestionMixin*, *dokomoforms.models.node.Question*

A photo question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_multiple

allow_other

deleted

hint

id

languages

last_update_time

logic

the_languages

the_type_constraint

title

type_constraint

```
class dokomoforms.models.node.Question (**kwargs)
```

Bases: *dokomoforms.models.node.Node*

A Question has a response type associated with it.

A Question has a type constraint associated with it (integer, date, text...). Only a dokomoforms.models.survey.MultipleChoiceQuestion has a list of dokomoforms.models.survey.Choice instances.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_multiple

allow_other

deleted

hint

id

languages

last_update_time

logic

the_languages

the_type_constraint

title

type_constraint

```
class dokomoforms.models.node.TextQuestion (**kwargs)
```

Bases: dokomoforms.models.node._QuestionMixin, *dokomoforms.models.node.Question*

A text question.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_multiple

allow_other

deleted

hint

id

languages

last_update_time

logic

```

    the_languages
    the_type_constraint
    title
    type_constraint
class dokomoforms.models.node.TimeQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
    A time (with time zone) question.
    __init__(**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.
    allow_multiple
    allow_other
    deleted
    hint
    id
    languages
    last_update_time
    logic
    the_languages
    the_type_constraint
    title
    type_constraint
class dokomoforms.models.node.TimestampQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
    A timestamp (with time zone) question.
    __init__(**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.
    allow_multiple
    allow_other
    deleted
    hint
    id
    languages

```

`last_update_time`
`logic`
`the_languages`
`the_type_constraint`
`title`
`type_constraint`

`dokomoforms.models.node.construct_node(*, type_constraint: str, **kwargs) → dokomoforms.models.node.Node`

Return a subclass of `dokomoforms.models.node.Node`.

The subclass is determined by the `type_constraint` parameter. This utility function makes it easy to create an instance of a `Node` or `Question` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **`type_constraint`** – the type constraint of the node. Must be one of the keys of `dokomoforms.models.survey.NODE_TYPES`
- **`kwargs`** – the keyword arguments to pass to the constructor

Returns an instance of one of the `Node` subtypes

Raises `dokomoforms.exc.NoSuchNodeTypeError`

dokomoforms.models.submission module

Submission models.

class `dokomoforms.models.submission.EnumeratorOnlySubmission(**kwargs)`
Bases: `dokomoforms.models.submission.Submission`

An `EnumeratorOnlySubmission` must have an enumerator.

Use an `EnumeratorOnlySubmission` for an `EnumeratorOnlySurvey`.

__init__ (***kwargs*)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`answers`
`deleted`
`enumerator`
`enumerator_user_id`
`id`
`last_update_time`
`save_time`
`start_time`
`submission_time`

submission_type
submitter_email
submitter_name
survey_containing_id
survey_default_language
survey_id
survey_title
survey_type
the_survey_id

```
class dokomoforms.models.submission.PublicSubmission(**kwargs)
    Bases: dokomoforms.models.submission.Submission
```

A PublicSubmission might have an enumerator.

Use a PublicSubmission for a Survey.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

answers
deleted
enumerator
enumerator_user_id
id
last_update_time
save_time
start_time
submission_time
submission_type
submitter_email
submitter_name
survey_containing_id
survey_default_language
survey_id
survey_title
survey_type

```
class dokomoforms.models.submission.Submission(**kwargs)
```

Bases: `dokomoforms.models.util.Base`

A Submission references a Survey and has a list of Answers.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

answers

deleted

id

last_update_time

save_time

start_time

submission_time

submission_type

submitter_email

submitter_name

survey_containing_id

survey_default_language

survey_id

survey_title

survey_type

```
dokomoforms.models.submission.construct_submission(*, submission_type: str,
                                                    **kwargs) → dokomo-
                                                    forms.models.submission.Submission
```

Return a subclass of `dokomoforms.models.submission.Submission`.

The subclass is determined by the `submission_type` parameter. This utility function makes it easy to create an instance of a `Submission` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **submission_type** – the type of submission. Must be either 'public_submission' or 'enumerator_only_submission'
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Node subtypes

Raises `dokomoforms.exc.NoSuchSubmissionTypeError`

```
dokomoforms.models.submission.most_recent_submissions(session, user_id, limit=None)
```

Get an administrator's surveys' most recent submissions.

dokomoforms.models.survey module

Survey models.

class dokomoforms.models.survey.**AnswerableSurveyNode** (**kwargs)

Bases: *dokomoforms.models.survey.SurveyNode*

Contains a Node which is answerable (e.g, a Question).

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_dont_know

allow_multiple

allow_other

answer_count

answers

containing_survey_id

deleted

id

last_update_time

logic

node

node_id

node_languages

node_number

non_null_repeatable

required

root_survey_id

root_survey_languages

sub_survey_id

sub_survey_repeatable

sub_surveys

survey_node_answerable

the_containing_survey_id

the_node

the_node_id

the_node_languages

the_root_survey_languages

the_sub_survey_repeatable

the_type_constraint

type_constraint

class dokomoforms.models.survey.**Bucket** (**kwargs)

Bases: *dokomoforms.models.util.Base*

A Bucket determines how to arrive at a SubSurvey.

A Bucket can be a range or a Choice.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket

The bucket is a range or Choice.

Buckets for a given SubSurvey cannot overlap.

bucket_type

deleted

id

last_update_time

sub_survey_id

sub_survey_parent_node_id

sub_survey_parent_survey_node_id

sub_survey_parent_type_constraint

class dokomoforms.models.survey.**DateBucket** (**kwargs)

Bases: dokomoforms.models.survey._RangeBucketMixin, *dokomoforms.models.survey.Bucket*

DATERANGE bucket.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket

bucket_type

deleted

id

last_update_time

sub_survey_id

sub_survey_parent_node_id

sub_survey_parent_survey_node_id
sub_survey_parent_type_constraint
the_survey_node_id

class dokomoforms.models.survey.**DecimalBucket** (**kwargs)
 Bases: dokomoforms.models.survey._RangeBucketMixin, *dokomoforms.models.survey.Bucket*

NUMRANGE bucket.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket

bucket_type

deleted

id

last_update_time

sub_survey_id

sub_survey_parent_node_id

sub_survey_parent_survey_node_id

sub_survey_parent_type_constraint

the_survey_node_id

class dokomoforms.models.survey.**EnumeratorOnlySurvey** (**kwargs)

Bases: *dokomoforms.models.survey.Survey*

Only enumerators (designated Users) can submit to this.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

administrators

containing_id

created_on

creator_id

default_language

deleted

earliest_submission_time

enumerators

id

languages
last_update_time
latest_submission_time
nodes
num_submissions
submissions
survey_metadata
survey_type
title
url_slug
version

class dokomoforms.models.survey.**IntegerBucket** (**kwargs)
Bases: dokomoforms.models.survey._RangeBucketMixin, *dokomoforms.models.survey.Bucket*
INT4RANGE bucket.

__init__ (**kwargs)
A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket
bucket_type
deleted
id
last_update_time
sub_survey_id
sub_survey_parent_node_id
sub_survey_parent_survey_node_id
sub_survey_parent_type_constraint
the_survey_node_id

class dokomoforms.models.survey.**MultipleChoiceBucket** (**kwargs)
Bases: *dokomoforms.models.survey.Bucket*

Choice id bucket.

__init__ (**kwargs)
A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket

```

bucket_type
choice_id
deleted
id
last_update_time
parent_node_id
parent_survey_node_id
sub_survey_id
sub_survey_parent_node_id
sub_survey_parent_survey_node_id
sub_survey_parent_type_constraint
the_sub_survey_id

```

class dokomoforms.models.survey.NonAnswerableSurveyNode (**kwargs)

Bases: *dokomoforms.models.survey.SurveyNode*

Contains a Node which is not answerable (e.g., a Note).

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```

containing_survey_id
deleted
id
last_update_time
logic
node
node_id
node_languages
node_number
non_null_repeatable
root_survey_id
root_survey_languages
sub_survey_id
sub_survey_repeatable
survey_node_answerable
the_node
the_node_id

```

the_type_constraint

type_constraint

class dokomoforms.models.survey.**SubSurvey** (**kwargs)

Bases: *dokomoforms.models.util.Base*

A SubSurvey behaves like a Survey but belongs to a SurveyNode.

The way to arrive at a certain SubSurvey is encoded in its buckets.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

buckets

containing_survey_id

deleted

id

nodes

parent_allow_multiple

parent_node_id

parent_survey_node_id

parent_type_constraint

repeatable

root_survey_languages

sub_survey_number

class dokomoforms.models.survey.**Survey** (**kwargs)

Bases: *dokomoforms.models.util.Base*

A Survey has a list of SurveyNodes.

Use an EnumeratorOnlySurvey to restrict submissions to enumerators.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

administrators

containing_id

created_on

creator_id

default_language

deleted

```

earliest_submission_time
id
languages
last_update_time
latest_submission_time
nodes
num_submissions
submissions
survey_metadata
survey_type
title
url_slug
version

```

```

class dokomoforms.models.survey.SurveyNode(**kwargs)
    Bases: dokomoforms.models.util.Base

```

A SurveyNode contains a Node and adds survey-specific metadata.

```

__init__(**kwargs)

```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```

containing_survey_id
deleted
id
last_update_time
logic
node
    The Node instance.
node_id
node_languages
node_number
non_null_repeatable
root_survey_id
root_survey_languages
sub_survey_id
sub_survey_repeatable
survey_node_answerable

```

the_node

type_constraint

class dokomoforms.models.survey.**TimestampBucket** (**kwargs)

Bases: dokomoforms.models.survey._RangeBucketMixin, *dokomoforms.models.survey.Bucket*

TSTZRANGE bucket.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

bucket

bucket_type

deleted

id

last_update_time

sub_survey_id

sub_survey_parent_node_id

sub_survey_parent_survey_node_id

sub_survey_parent_type_constraint

the_survey_node_id

dokomoforms.models.survey.**administrator_filter** (user_id)

Filter a query by administrator id.

dokomoforms.models.survey.**construct_bucket** (*, bucket_type: str, **kwargs) → dokomoforms.models.survey.Bucket

Return a subclass of dokomoforms.models.survey.Bucket.

The subclass is determined by the bucket_type parameter. This utility function makes it easy to create an instance of a Bucket subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **bucket_type** – the type of the bucket. Must be one of the keys of dokomoforms.models.survey.BUCKET_TYPES
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Bucket subtypes

Raises dokomoforms.exc.NoSuchBucketTypeError

dokomoforms.models.survey.**construct_survey** (*, survey_type: str, **kwargs)

Construct either a public or enumerator_only Survey.

dokomoforms.models.survey.**construct_survey_node** (**kwargs) → dokomoforms.models.survey.SurveyNode

Return a subclass of dokomoforms.models.survey.SurveyNode.

The subclass is determined by the `type_constraint` parameter. This utility function makes it easy to create an instance of a `SurveyNode` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters `kwargs` – the keyword arguments to pass to the constructor

Returns an instance of one of the `Node` subtypes

`dokomoforms.models.survey.most_recent_surveys(session, user_id, limit=None)`

Get an administrator's most recent surveys.

`dokomoforms.models.survey.skipped_required(survey, answers) → str`

Return the id of a skipped `AnswerableSurveyNode`, or `None`.

dokomoforms.models.user module

User models.

class `dokomoforms.models.user.Administrator(**kwargs)`

Bases: `dokomoforms.models.user.User`

A User who can create Surveys and add Users.

Regular users can answer surveys, but only `Administrator` instances can create surveys.

`__init__` (`**kwargs`)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`deleted`

`emails`

`id`

`last_update_time`

`name`

`preferences`

`role`

`surveys`

`token`

`token_expiration`

class `dokomoforms.models.user.Email(**kwargs)`

Bases: `dokomoforms.models.util.Base`

Models an e-mail address.

`__init__` (`**kwargs`)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

address
deleted
id
last_update_time
user_id

```
class dokomoforms.models.user.User(**kwargs)
    Bases: dokomoforms.models.util.Base
```

Models a user. A user has at least one e-mail address.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

deleted
emails
id
last_update_time
name
preferences
role

```
dokomoforms.models.user.construct_user(*, role: str, **kwargs)
    Construct either an enumerator or an administrator.
```

dokomoforms.models.util module

Useful reusable functions for models.

Models should inherit from dokomoforms.models.util.Base, and should almost certainly make use of the dokomoforms.models.util.pk and dokomoforms.models.util.last_update_time

The SQLAlchemy documentation suggests setting those columns in the base class or using class mixins, but it makes it less explicit which columns exist when looking at the models' definitions.

```
class dokomoforms.models.util.Base(**kwargs)
    Bases: abc.Base
```

The base class for all Dokomo Forms models.

```
deleted = Column(None, Boolean(), table=None, nullable=False, server_default=DefaultClause('false', for_update=False))
```

```
class dokomoforms.models.util.ModelJSONEncoder(skipkeys=False, ensure_ascii=True,
                                                check_circular=True, allow_nan=True,
                                                sort_keys=False, indent=None, separators=None, default=None)
```

Bases: json.encoder.JSONEncoder

This JSONEncoder handles the models in dokomoforms.models.

To use it manually, call:

```
json.dumps( model, cls=dokomoforms.models.util.ModelJSONEncoder, **kwargs
)
```

default (*obj*)

Handle special types for json.dumps.

If obj is a model from dokomoforms.models, return a dictionary representation.

If obj is a datetime.date or datetime.time, return an ISO 8601 representation string.

If obj is a psycopg2 Range, return its string representation.

Otherwise, throw a TypeError.

See <https://docs.python.org/3/library/json.html#json.JSONEncoder.default>

```
dokomoforms.models.util.column_search(query, *, model_cls, column_name, search_term, lan-
                                     guage=None, regex=False) → 'query'
```

Modify a query to search a column's values (JSONB or TEXT).

TODO: document this

Parameters

- **query** – a
- **model_cls** – aa
- **column** – b
- **search_term** – c
- **language** – d
- **regex** – r

Returns The modified query.

```
dokomoforms.models.util.create_engine(pool_size: int=None, max_overflow: int=None, echo:
                                     bool=None) → sqlalchemy.engine.base.Engine
```

Get a connection to the database.

Return a sqlalchemy.engine.Engine configured with the options set in dokomoforms.options.options

Returns a SQLAlchemy engine

```
dokomoforms.models.util.fk(column_name: str) → sqlalchemy.sql.schema.Column
```

A foreign key with ONUPDATE CASCADE and ONDELETE CASCADE.

Return a foreign key of type UUID for use in models.

The relationship CASCADEs on UPDATE and DELETE.

Parameters **column_name** – the name of the referenced column

Returns a SQLAlchemy Column for a UUID primary key.

```
dokomoforms.models.util.get_fields_subset(model: dokomoforms.models.util.Base, fields:
                                     list) → collections.OrderedDict
```

Return the given fields for the model's dictionary representation.

```
dokomoforms.models.util.get_model(session, model_cls, model_id, exception=None)
```

Throw an error if session.query.get(model_id) returns None.

```
dokomoforms.models.util.json_column(column_name: str, *, default=None) →
                                   sqlalchemy.sql.schema.Column
```

A JSONB column.

Return a column of type JSONB for use in models. Use this for entries like

```
<language>: <text>
```

Parameters

- **column_name** – the name of the column
- **default** – the column default (default value None, meaning no column default)

Returns a SQLAlchemy Column for a non-null JSONB type.

`dokomoforms.models.util.jsonify(obj, *, raise_exception=False) → object`

Convert the given object to something JSON can handle.

`dokomoforms.models.util.languages_column(column_name) → sqlalchemy.sql.schema.Column`

A TEXT[] column of length > 0.

Return an ARRAY(TEXT, as_tuple=True) column.

Parameters **column_name** – the name of the column

Returns a SQLAlchemy Column for a non-null ARRAY(TEXT, as_tuple=True) type.

`dokomoforms.models.util.languages_constraint(column_name, languages_column_name) → sqlalchemy.sql.schema.Constraint`

CHECK CONSTRAINT for a translatable column.

Checks that all of the languages in the languages column exist as keys in the translatable column.

Parameters

- **column_name** – the name of the translatable column
- **languages_column_name** – the name of the TEXT[] column containing the languages.

Returns a SQLAlchemy Constraint to ensure that all the required translations are available.

`dokomoforms.models.util.last_update_time() → sqlalchemy.sql.schema.Column`

A timestamp column set to CURRENT_TIMESTAMP on update.

Return a column containing the time that a record was last updated.

Returns a SQLAlchemy Column for a datetime with time zone auto-updating column

`dokomoforms.models.util.pk(*foreign_key_column_names: str) → sqlalchemy.sql.schema.Column`

A UUID primary key.

Return a standard primary key of type UUID for use in models. If the any foreign_key_column_names are supplied, the primary key will reference the given columns.

Parameters **foreign_key_column_names** – column names of the referenced foreign keys (should be 'table_name.column_name')

Returns a SQLAlchemy Column for a UUID primary key.

Module contents

All the models used in Dokomo Forms.

`class dokomoforms.models.Base(**kwargs)`

Bases: abc.Base

The base class for all Dokomo Forms models.

deleted = Column(None, Boolean(), table=None, nullable=False, server_default=DefaultClause('false', for_update=False))

`dokomoforms.models.create_engine` (*pool_size: int=None, max_overflow: int=None, echo: bool=None*) → sqlalchemy.engine.base.Engine

Get a connection to the database.

Return a sqlalchemy.engine.Engine configured with the options set in dokomoforms.options.options

Returns a SQLAlchemy engine

`dokomoforms.models.jsonify` (*obj, *, raise_exception=False*) → object

Convert the given object to something JSON can handle.

`dokomoforms.models.get_model` (*session, model_cls, model_id, exception=None*)

Throw an error if session.query.get(model_id) returns None.

class `dokomoforms.models.ModelJSONEncoder` (*skipkeys=False, ensure_ascii=True, check_circular=True, allow_nan=True, sort_keys=False, indent=None, separators=None, default=None*)

Bases: `json.encoder.JSONEncoder`

This JSONEncoder handles the models in dokomoforms.models.

To use it manually, call:

```
json.dumps( model, cls=dokomoforms.models.util.ModelJSONEncoder, **kwargs
)
```

default (*obj*)

Handle special types for json.dumps.

If obj is a model from dokomoforms.models, return a dictionary representation.

If obj is a datetime.date or datetime.time, return an ISO 8601 representation string.

If obj is a psycopg2 Range, return its string representation.

Otherwise, throw a TypeError.

See <https://docs.python.org/3/library/json.html#json.JSONEncoder.default>

class `dokomoforms.models.User` (***kwargs*)

Bases: `dokomoforms.models.util.Base`

Models a user. A user has at least one e-mail address.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

deleted

emails

id

last_update_time

name

preferences

role

```
class dokomoforms.models.Administrator (**kwargs)
```

Bases: *dokomoforms.models.user.User*

A User who can create Surveys and add Users.

Regular users can answer surveys, but only Administrator instances can create surveys.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

deleted

emails

id

last_update_time

name

preferences

role

surveys

token

token_expiration

```
class dokomoforms.models.Email (**kwargs)
```

Bases: *dokomoforms.models.util.Base*

Models an e-mail address.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

address

deleted

id

last_update_time

user_id

```
dokomoforms.models.construct_user (*, role: str, **kwargs)
```

Construct either an enumerator or an administrator.

```
class dokomoforms.models.Node (**kwargs)
```

Bases: *dokomoforms.models.util.Base*

A node is a Note or Question independent of any Survey.

A node is its own entity. A node can be a `dokomoforms.models.survey.Note` or a `dokomoforms.models.survey.Question`.

You can use this class for querying, e.g. `session.query(Node).filter_by(title='Some Title')`

To create the specific kind of Node you want, use `dokomoforms.models.survey.node.construct_node`.

`__init__` (***kwargs*)

A simple constructor that allows initialization from *kwargs*.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`title`

`type_constraint`

`class dokomoforms.models.Question` (***kwargs*)

Bases: `dokomoforms.models.node.Node`

A Question has a response type associated with it.

A Question has a type constraint associated with it (integer, date, text...). Only a `dokomoforms.models.survey.MultipleChoiceQuestion` has a list of `dokomoforms.models.survey.Choice` instances.

`__init__` (***kwargs*)

A simple constructor that allows initialization from *kwargs*.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`

`allow_other`

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`the_languages`

`the_type_constraint`

`title`

type_constraint

`dokomoforms.models.construct_node(*, type_constraint: str, **kwargs) → dokomoforms.models.node.Node`

Return a subclass of `dokomoforms.models.node.Node`.

The subclass is determined by the `type_constraint` parameter. This utility function makes it easy to create an instance of a `Node` or `Question` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **type_constraint** – the type constraint of the node. Must be one of the keys of `dokomoforms.models.survey.NODE_TYPES`
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the `Node` subtypes

Raises `dokomoforms.exc.NoSuchNodeTypeError`

class `dokomoforms.models.Note(**kwargs)`

Bases: `dokomoforms.models.node.Node`

Notes provide information interspersed with survey questions.

`__init__` (***kwargs*)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

deleted

hint

id

languages

last_update_time

logic

the_type_constraint

title

type_constraint

class `dokomoforms.models.TextQuestion(**kwargs)`

Bases: `dokomoforms.models.node._QuestionMixin`, `dokomoforms.models.node.Question`

A text question.

`__init__` (***kwargs*)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_multiple

allow_other

deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint

```
class dokomoforms.models.PhotoQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A photo question.

__init__(**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint

```
class dokomoforms.models.IntegerQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A integer question.

__init__(**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`
`allow_other`
`deleted`
`hint`
`id`
`languages`
`last_update_time`
`logic`
`the_languages`
`the_type_constraint`
`title`
`type_constraint`

```
class dokomoforms.models.DecimalQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A decimal question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`
`allow_other`
`deleted`
`hint`
`id`
`languages`
`last_update_time`
`logic`
`the_languages`
`the_type_constraint`
`title`
`type_constraint`

```
class dokomoforms.models.DateQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question
```

A date question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint
```

```
class dokomoforms.models.TimeQuestion(**kwargs)
```

Bases: dokomoforms.models.node._QuestionMixin, *dokomoforms.models.node.Question*

A time (with time zone) question.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_multiple
allow_other
deleted
hint
id
languages
last_update_time
logic
the_languages
the_type_constraint
title
type_constraint
```

```
class dokomoforms.models.TimestampQuestion(**kwargs)
```

Bases: dokomoforms.models.node._QuestionMixin, *dokomoforms.models.node.Question*

A timestamp (with time zone) question.

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`

`allow_other`

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`the_languages`

`the_type_constraint`

`title`

`type_constraint`

class `dokomoforms.models.LocationQuestion` (**kwargs)

Bases: `dokomoforms.models.node._QuestionMixin`, *`dokomoforms.models.node.Question`*

A location question.

`__init__` (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_multiple`

`allow_other`

`deleted`

`hint`

`id`

`languages`

`last_update_time`

`logic`

`the_languages`

`the_type_constraint`

`title`

`type_constraint`

```

class dokomoforms.models.FacilityQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question

    A facility question.

    __init__(**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.

    allow_multiple
    allow_other
    deleted
    hint
    id
    languages
    last_update_time
    logic
    the_languages
    the_type_constraint
    title
    type_constraint

class dokomoforms.models.MultipleChoiceQuestion(**kwargs)
    Bases: dokomoforms.models.node._QuestionMixin, dokomoforms.models.node.Question

    A multiple_choice question.

    __init__(**kwargs)
        A simple constructor that allows initialization from kwargs.

        Sets attributes on the constructed instance using the names and values in kwargs.

        Only keys that are present as attributes of the instance's class are allowed. These could be, for example,
        any mapped columns or relationships.

    allow_multiple
    allow_other
    choices
    deleted
    hint
    id
    languages
    last_update_time
    logic
    node_languages

```

the_languages

the_type_constraint

title

type_constraint

class dokomoforms.models.**Choice** (**kwargs)

Bases: *dokomoforms.models.util.Base*

A choice for a MultipleChoiceQuestion.

Models a choice for a dokomoforms.models.survey.MultipleChoiceQuestion.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

choice_number

choice_text

deleted

id

last_update_time

question_id

question_languages

class dokomoforms.models.**Survey** (**kwargs)

Bases: *dokomoforms.models.util.Base*

A Survey has a list of SurveyNodes.

Use an EnumeratorOnlySurvey to restrict submissions to enumerators.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

administrators

containing_id

created_on

creator_id

default_language

deleted

earliest_submission_time

id

languages

```

last_update_time
latest_submission_time
nodes
num_submissions
submissions
survey_metadata
survey_type
title
url_slug
version

```

```
class dokomoforms.models.EnumeratorOnlySurvey(**kwargs)
```

Bases: *dokomoforms.models.survey.Survey*

Only enumerators (designated Users) can submit to this.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```

administrators
containing_id
created_on
creator_id
default_language
deleted
earliest_submission_time
enumerators
id
languages
last_update_time
latest_submission_time
nodes
num_submissions
submissions
survey_metadata
survey_type
title
url_slug

```

version

```
class dokomoforms.models.SubSurvey (**kwargs)
```

Bases: *dokomoforms.models.util.Base*

A SubSurvey behaves like a Survey but belongs to a SurveyNode.

The way to arrive at a certain SubSurvey is encoded in its buckets.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

buckets

containing_survey_id

deleted

id

nodes

parent_allow_multiple

parent_node_id

parent_survey_node_id

parent_type_constraint

repeatable

root_survey_languages

sub_survey_number

```
class dokomoforms.models.SurveyNode (**kwargs)
```

Bases: *dokomoforms.models.util.Base*

A SurveyNode contains a Node and adds survey-specific metadata.

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

containing_survey_id

deleted

id

last_update_time

logic

node

The Node instance.

node_id

node_languages
node_number
non_null_repeatable
root_survey_id
root_survey_languages
sub_survey_id
sub_survey_repeatable
survey_node_answerable
the_node
type_constraint

`dokomoforms.models.construct_survey(*, survey_type: str, **kwargs)`

Construct either a public or enumerator_only Survey.

class `dokomoforms.models.NonAnswerableSurveyNode(**kwargs)`

Bases: `dokomoforms.models.survey.SurveyNode`

Contains a Node which is not answerable (e.g., a Note).

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

containing_survey_id
deleted
id
last_update_time
logic
node
node_id
node_languages
node_number
non_null_repeatable
root_survey_id
root_survey_languages
sub_survey_id
sub_survey_repeatable
survey_node_answerable
the_node
the_node_id

`the_type_constraint`

`type_constraint`

class `dokomoforms.models.AnswerableSurveyNode` (***kwargs*)

Bases: `dokomoforms.models.survey.SurveyNode`

Contains a Node which is answerable (e.g, a Question).

`__init__` (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`allow_dont_know`

`allow_multiple`

`allow_other`

`answer_count`

`answers`

`containing_survey_id`

`deleted`

`id`

`last_update_time`

`logic`

`node`

`node_id`

`node_languages`

`node_number`

`non_null_repeatable`

`required`

`root_survey_id`

`root_survey_languages`

`sub_survey_id`

`sub_survey_repeatable`

`sub_surveys`

`survey_node_answerable`

`the_containing_survey_id`

`the_node`

`the_node_id`

`the_node_languages`

`the_root_survey_languages`

the_sub_survey_repeatable

the_type_constraint

type_constraint

`dokomoforms.models.construct_survey_node(**kwargs)` → `dokomoforms.models.survey.SurveyNode`

Return a subclass of `dokomoforms.models.survey.SurveyNode`.

The subclass is determined by the `type_constraint` parameter. This utility function makes it easy to create an instance of a `SurveyNode` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters `kwargs` – the keyword arguments to pass to the constructor

Returns an instance of one of the Node subtypes

`dokomoforms.models.construct_bucket(*, bucket_type: str, **kwargs)` → `dokomoforms.models.survey.Bucket`

Return a subclass of `dokomoforms.models.survey.Bucket`.

The subclass is determined by the `bucket_type` parameter. This utility function makes it easy to create an instance of a `Bucket` subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **bucket_type** – the type of the bucket. Must be one of the keys of `dokomoforms.models.survey.BUCKET_TYPES`
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Bucket subtypes

Raises `dokomoforms.exc.NoSuchBucketTypeError`

`dokomoforms.models.skipped_required(survey, answers)` → `str`

Return the id of a skipped `AnswerableSurveyNode`, or `None`.

`dokomoforms.models.administrator_filter(user_id)`

Filter a query by administrator id.

`dokomoforms.models.most_recent_surveys(session, user_id, limit=None)`

Get an administrator's most recent surveys.

class `dokomoforms.models.Submission(**kwargs)`

Bases: `dokomoforms.models.util.Base`

A `Submission` references a `Survey` and has a list of `Answers`.

__init__(`**kwargs`)

A simple constructor that allows initialization from `kwargs`.

Sets attributes on the constructed instance using the names and values in `kwargs`.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

answers

deleted

id

last_update_time

`save_time`
`start_time`
`submission_time`
`submission_type`
`submitter_email`
`submitter_name`
`survey_containing_id`
`survey_default_language`
`survey_id`
`survey_title`
`survey_type`

`class dokomoforms.models.EnumeratorOnlySubmission(**kwargs)`

Bases: `dokomoforms.models.submission.Submission`

An EnumeratorOnlySubmission must have an enumerator.

Use an EnumeratorOnlySubmission for an EnumeratorOnlySurvey.

`__init__` (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

`answers`
`deleted`
`enumerator`
`enumerator_user_id`
`id`
`last_update_time`
`save_time`
`start_time`
`submission_time`
`submission_type`
`submitter_email`
`submitter_name`
`survey_containing_id`
`survey_default_language`
`survey_id`
`survey_title`
`survey_type`

the_survey_id

```
class dokomoforms.models.PublicSubmission(**kwargs)
    Bases: dokomoforms.models.submission.Submission
```

A PublicSubmission might have an enumerator.

Use a PublicSubmission for a Survey.

```
__init__(**kwargs)
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

answers

deleted

enumerator

enumerator_user_id

id

last_update_time

save_time

start_time

submission_time

submission_type

submitter_email

submitter_name

survey_containing_id

survey_default_language

survey_id

survey_title

survey_type

```
dokomoforms.models.construct_submission(*, submission_type: str, **kwargs) → dokomo-
forms.models.submission.Submission
```

Return a subclass of dokomoforms.models.submission.Submission.

The subclass is determined by the submission_type parameter. This utility function makes it easy to create an instance of a Submission subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **submission_type** – the type of submission. Must be either 'public_submission' or 'enumerator_only_submission'
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Node subtypes

Raises dokomoforms.exc.NoSuchSubmissionTypeError

`dokomoforms.models.most_recent_submissions` (*session, user_id, limit=None*)

Get an administrator's surveys' most recent submissions.

class `dokomoforms.models.Answer` (***kwargs*)

Bases: `dokomoforms.models.util.Base`

An Answer is a response to a SurveyNode.

An Answer can be one of an answer, an “other” response or a “don’t know” response. Answer.response abstracts over these 3 possibilities.

__init__ (***kwargs*)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in *kwargs*.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_dont_know

allow_multiple

allow_other

answer

The answer. Could be the same as *main_answer* in simple cases.

This property is the most useful representation available of the answer. In the simplest case it is just a synonym for *main_answer*. It could otherwise be a dictionary or another model.

answer_metadata

answer_number

answer_type

deleted

dont_know

A text field containing “don’t know” responses.

id

last_update_time

main_answer

The representative part of a provided answer.

The *main_answer* is the only answer for simple types (integer, text, etc.) and for other types is the part of the answer that is most important. In practice, the *main_answer* is special only in that all Answer models have it, which is necessary for certain constraints and for the response property.

other

A text field containing “other” responses.

question_id

question_title

repeatable

response = `OrderedDict([('type_constraint', <sqlalchemy.orm.attributes.InstrumentedAttribute object at 0x7f8ec0d54a`

save_time

submission_id

survey_containing_id
survey_id
survey_node
survey_node_containing_survey_id
survey_node_id
type_constraint

class dokomoforms.models.**Photo** (**kwargs)
 Bases: *dokomoforms.models.util.Base*

A BYTEA holding an image.

__init__ (**kwargs)

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

created_on

deleted

id

image

mime_type

dokomoforms.models.construct_answer (*, type_constraint: str, **kwargs) → dokomo-
 forms.models.answer.Answer

Return a subclass of dokomoforms.models.answer.Answer.

The subclass is determined by the type_constraint parameter. This utility function makes it easy to create an instance of an Answer subclass based on external input.

See <http://stackoverflow.com/q/30518484/1475412>

Parameters

- **type_constraint** – the type of the answer. Must be one of the keys of dokomoforms.models.answer.ANSWER_TYPES
- **kwargs** – the keyword arguments to pass to the constructor

Returns an instance of one of the Answer subtypes

Raises dokomoforms.exc.NotAnAnswerTypeError

dokomoforms.models.add_new_photo_to_session (session, *, id, **kwargs)
 Create a new Photo and update the referenced PhotoAnswer.

dokomoforms.models.answer_min (survey_node: dokomoforms.models.survey.AnswerableSurveyNode)
 Get the minimum answer.

dokomoforms.models.answer_max (survey_node: dokomoforms.models.survey.AnswerableSurveyNode)
 Get the maximum answer.

dokomoforms.models.answer_sum (survey_node: dokomoforms.models.survey.AnswerableSurveyNode)
 Get the sum of the answers.

`dokomoforms.models.answer_avg` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the average of the answers.

`dokomoforms.models.answer_mode` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the mode of the answers.

`dokomoforms.models.answer_stddev_pop` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the population standard deviation of the answers.

`dokomoforms.models.answer_stddev_samp` (*survey_node: dokomoforms.models.survey.AnswerableSurveyNode*)

Get the sample standard deviation of the answers.

`dokomoforms.models.generate_question_stats` (*survey*)

Get answer statistics for the nodes in a survey.

1.2 Submodules

1.3 dokomoforms.exc module

The base exception class is *DokomoError*.

exception `dokomoforms.exc.DokomoError`

Bases: `Exception`

The base class for all exceptions used in Dokomo Forms.

exception `dokomoforms.exc.InvalidTypeForOperation`

Bases: `dokomoforms.exc.DokomoError`

Invalid type for the selected aggregation function.

For instance, you can't find the maximum of a text answer.

exception `dokomoforms.exc.NoSuchBucketTypeError`

Bases: `dokomoforms.exc.DokomoError`

Invalid `type_constraint` for `construct_bucket`.

Raised when `dokomoforms.models.survey.construct_bucket` is called with an invalid `type_constraint`.

The valid `type_constraints` are the keys of `dokomoforms.models.survey.BUCKET_TYPES`.

exception `dokomoforms.exc.NoSuchNodeTypeError`

Bases: `dokomoforms.exc.DokomoError`

Invalid `type_constraint` for `construct_node`.

Raised when `dokomoforms.models.node.construct_node` is called with an invalid `type_constraint`.

The valid `type_constraints` are the keys of `dokomoforms.models.node.NODE_TYPES`.

exception `dokomoforms.exc.NoSuchSubmissionTypeError`

Bases: `dokomoforms.exc.DokomoError`

Invalid `submission_type` for `construct_submission`.

Raised when `dokomoforms.models.submission.construct_submission` is called with an invalid `submission_type`.

The valid types are 'unauthenticated' and 'enumerator_only_submission'

exception `dokomoforms.exc.NotAResponseTypeError`

Bases: `dokomoforms.exc.DokomoError`

Invalid response_type Answer.response.setter.

Raised when trying to set the response field on an Answer with an invalid response_type.

The valid response_types are 'answer', 'other', and 'dont_know'.

exception `dokomoforms.exc.NotAnAnswerTypeError`

Bases: `dokomoforms.exc.DokomoError`

Invalid type_constraint for construct_answer.

Raised when dokomoforms.models.node.construct_answer is called with an invalid type_constraint.

The valid type_constraints are the keys of dokomoforms.models.answer.ANSWER_TYPES.

exception `dokomoforms.exc.NotJSONifiableError`

Bases: `dokomoforms.exc.DokomoError`

The jsonify function encountered a strange object.

exception `dokomoforms.exc.PhotoIdDoesNotExistError`

Bases: `dokomoforms.exc.DokomoError`

The submitted photo ID does not exist in the database.

exception `dokomoforms.exc.RequiredQuestionSkipped`

Bases: `dokomoforms.exc.DokomoError`

A submission has no answer for a required question.

exception `dokomoforms.exc.SurveyAccessForbidden`

Bases: `dokomoforms.exc.DokomoError`

The logged-in user does not have access to the survey.

exception `dokomoforms.exc.UserRequiresEmailError`

Bases: `dokomoforms.exc.DokomoError`

A user must have at least one e-mail address.

1.4 dokomoforms.options module

All the application options are defined here.

If you need to inject options at runtime (for testing, etc...):

```
from dokomoforms.options import parse_options
parse_options(name1=value1, name2=value2, ...)
```

1.5 Module contents

Top level module for Dokomo Forms.

All of the application code for Dokomoforms (outside of the webapp.py script) lives in this module.

webapp module

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