dokomoforms Documentation

Release

Author

January 25, 2016

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CHAPTER 1

dokomoforms package

1.1 Subpackages

1.1.1 dokomoforms.handlers package

Subpackages

dokomoforms.handlers.api package

Subpackages

dokomoforms.handlers.api.v0 package

Submodules

dokomoforms.handlers.api.v0.base module The base class of the TornadoResource classes in the api module.

class dokomoforms.handlers.api.v0.base.**BaseResource**(**args*, ***kwargs*)
Bases: restless.tnd.TornadoResource

Set up the basics for the model resource.

BaseResource does some basic configuration for the restless resources. - sets the base request handler class which is used by the resources - providing reference to the ORM session via request handler - inserting a serializer for dokomo Models - setting up authentication

build_response(*data*, *status=200*)
Finish the Tornado response.

This takes into account non-JSON content-types.

content_type
The format specified in the request.

current_user
The handler's current_user.

current_user_model
The handler's current_user_model.

default_sort_column_name
The default ORDER BY column name for list responses.

delete(*model_id*)
Set the deleted attribute to True. Does not destroy the instance.

detail(*model_id*)
Return a single instance of a model.

handle_error(*err*)
Generate a serialized error message.

If the error came from Tornado, pass it along as such. Otherwise, turn certain expected errors into 400 BAD REQUEST instead of 500 INTERNAL SERVER ERROR.

is_authenticated(*admin_only=True*)
Return whether the request has been authenticated.

list(*where=None*)
Return a list of instances of this model.

Given a model class, build up the ORM query based on query params and return the query result.

objects_key
The key for list responses.

query_modifiers_applied
Whether there were any modifiers applied to the query.

resource_type
The model class for the resource.

serializer = <dokomoforms.handlers.api.v0.serializer.ModelJSONSerializer object>

session
The handler's session.

update(*model_id*)
Update a model.

wrap_list_response(*data*)
Wrap a list response in a dict.

Takes a list of data & wraps it in a dictionary (within the `objects` key). For security in JSON responses, it's better to wrap the list results in an `object` (due to the way the `Array` constructor can be attacked in Javascript). See http://haacked.com/archive/2009/06/25/json-hijacking.aspx/ & similar for details. Overridable to allow for modifying the key names, adding data (or just insecurely return a plain old list if that's your thing). :param data: A list of data about to be serialized :type data: list :returns: A wrapping dict :rtype: dict

dokomoforms.handlers.api.v0.nodes module TornadoResource class for dokomoforms.models.node.Node subclasses.

class dokomoforms.handlers.api.v0.nodes.**NodeResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Nodes.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

create()
Create a new node.

default_sort_column_name = 'last_update_time'

objects_key = 'nodes'

resource_type
alias of Node

dokomoforms.handlers.api.v0.photos module TornadoResource class for dokomoforms.models.answer.Photo.

class dokomoforms.handlers.api.v0.photos.**PhotoResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Photos.

create()
Create a Photo. Must match an existing PhotoAnswer.

default_sort_column_name = 'created_on'

is_authenticated()
Allow unauthenticated POSTs.

objects_key = 'photos'

resource_type
alias of Photo

dokomoforms.handlers.api.v0.serializer module The restless Serializer for the models.

class dokomoforms.handlers.api.v0.serializer.**ModelJSONSerializer**
Bases: restless.serializers.JSONSerializer

Drop-in replacement for the restless-supplied JSONSerializer.

Uses dokomo's ModelJSONEncoder in order to correctly serialize models to JSON.

serialize(*data*)
The low-level serialization.

Underpins serialize, serialize_list & serialize_detail. Has no built-in smarts, simply dumps the JSON. :param data: The body for the response :type data: string :returns: A serialized version of the data :rtype: string

dokomoforms.handlers.api.v0.submissions module TornadoResource class for dokomoforms.models.submission.Submission.

class dokomoforms.handlers.api.v0.submissions.**SubmissionResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Submissions.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

create()
Create a new submission.

Uses the current_user_model (i.e. logged-in user) as creator.

default_sort_column_name = 'save_time'

detail(*submission_id*)
Allow CSV export of a single submission.

is_authenticated()
Allow unauthenticated POSTs under the right circumstances.

objects_key = 'submissions'

resource_type
alias of Submission

wrap_list_response(*data*)
Allow CSV export of submission data.

This method adds CSV export functionality on top of the JSON list wrapping of BaseResource.wrap_list_response.

dokomoforms.handlers.api.v0.submissions.**get_submission_for_handler**(*tornado_handler*, *submission_id*)
Maybe a handler needs a submission from the API.

dokomoforms.handlers.api.v0.surveys module TornadoResource class for dokomoforms.models.survey.Survey.

class dokomoforms.handlers.api.v0.surveys.**SurveyResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Surveys.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

__init__(**args*, ***kwargs*)
Make submit return 201.

activity(*survey_id*)
Get activity for a single survey.

activity_all()
Get activity for all surveys.

create()
Create a new survey.

Uses the current_user_model (i.e. logged-in user) as creator.

default_sort_column_name = 'created_on'

detail(*survey_id*)
Return the given survey.

Public surveys don't require authentication. Enumerator-only surveys do required authentication, and the user must be one of the survey's enumerators or an administrator.

http_methods = {'submit': {'POST': 'submit'}, 'activity_all': {'GET': 'activity_all'}, 'detail': {'POST': 'create_detail'

is_authenticated()
GET detail is allowed unauthenticated.

list_submissions(*survey_id*)
List all submissions for a survey.

objects_key = 'surveys'

resource_type
alias of Survey

stats(*survey_id*)
Get stats for a survey.

submit(*survey_id*)
Submit to a survey.

dokomoforms.handlers.api.v0.surveys.**get_survey_for_handler**(*tornado_handler*, *survey_id*)
Maybe a handler needs a survey from the API.

Module contents Handlers for the API endpoints.

class dokomoforms.handlers.api.v0.**ModelJSONSerializer**
Bases: restless.serializers.JSONSerializer

Drop-in replacement for the restless-supplied JSONSerializer.

Uses dokomo's ModelJSONEncoder in order to correctly serialize models to JSON.

serialize(*data*)
The low-level serialization.

Underpins serialize, serialize_list & serialize_detail. Has no built-in smarts, simply dumps the JSON. :param data: The body for the response :type data: string :returns: A serialized version of the data :rtype: string

class dokomoforms.handlers.api.v0.**BaseResource**(**args*, ***kwargs*)
Bases: restless.tnd.TornadoResource

Set up the basics for the model resource.

BaseResource does some basic configuration for the restless resources. - sets the base request handler class which is used by the resources - providing reference to the ORM session via request handler - inserting a serializer for dokomo Models - setting up authentication

build_response(*data*, *status=200*)
Finish the Tornado response.

This takes into account non-JSON content-types.

content_type
The format specified in the request.

current_user
The handler's current_user.

current_user_model
The handler's current_user_model.

default_sort_column_name
The default ORDER BY column name for list responses.

delete(*model_id*)
Set the deleted attribute to True. Does not destroy the instance.

detail(*model_id*)
Return a single instance of a model.

handle_error(*err*)
Generate a serialized error message.

If the error came from Tornado, pass it along as such. Otherwise, turn certain expected errors into 400 BAD REQUEST instead of 500 INTERNAL SERVER ERROR.

is_authenticated(*admin_only=True*)
Return whether the request has been authenticated.

list(*where=None*)
Return a list of instances of this model.

Given a model class, build up the ORM query based on query params and return the query result.

objects_key
The key for list responses.

query_modifiers_applied
Whether there were any modifiers applied to the query.

resource_type
The model class for the resource.

serializer = <dokomoforms.handlers.api.v0.serializer.ModelJSONSerializer object>

session
The handler's session.

update(*model_id*)
Update a model.

wrap_list_response(*data*)
Wrap a list response in a dict.

Takes a list of data & wraps it in a dictionary (within the `objects` key). For security in JSON responses, it's better to wrap the list results in an `object` (due to the way the `Array` constructor can be attacked in Javascript). See http://haacked.com/archive/2009/06/25/json-hijacking.aspx/ & similar for details. Overridable to allow for modifying the key names, adding data (or just insecurely return a plain old list if that's your thing). :param data: A list of data about to be serialized :type data: list :returns: A wrapping dict :rtype: dict

class dokomoforms.handlers.api.v0.**SurveyResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Surveys.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

__init__(**args*, ***kwargs*)
Make submit return 201.

activity(*survey_id*)
Get activity for a single survey.

activity_all()
Get activity for all surveys.

create()
Create a new survey.

Uses the current_user_model (i.e. logged-in user) as creator.

default_sort_column_name = 'created_on'

detail(*survey_id*)
Return the given survey.

Public surveys don't require authentication. Enumerator-only surveys do required authentication, and the user must be one of the survey's enumerators or an administrator.

http_methods = {'submit': {'POST': 'submit'}, 'activity_all': {'GET': 'activity_all'}, 'detail': {'POST': 'create_detail'

is_authenticated()
GET detail is allowed unauthenticated.

list_submissions(*survey_id*)
List all submissions for a survey.

objects_key = 'surveys'

resource_type
alias of Survey

stats(*survey_id*)
Get stats for a survey.

submit(*survey_id*)
Submit to a survey.

dokomoforms.handlers.api.v0.**get_survey_for_handler**(*tornado_handler*, *survey_id*)
Maybe a handler needs a survey from the API.

class dokomoforms.handlers.api.v0.**SubmissionResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Submissions.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

create()
Create a new submission.

Uses the current_user_model (i.e. logged-in user) as creator.

default_sort_column_name = 'save_time'

detail(*submission_id*)
Allow CSV export of a single submission.

is_authenticated()
Allow unauthenticated POSTs under the right circumstances.

objects_key = 'submissions'

resource_type
alias of Submission

wrap_list_response(*data*)
Allow CSV export of submission data.

This method adds CSV export functionality on top of the JSON list wrapping of BaseResource.wrap_list_response.

dokomoforms.handlers.api.v0.**get_submission_for_handler**(*tornado_handler*, *submission_id*)
Maybe a handler needs a submission from the API.

class dokomoforms.handlers.api.v0.**UserResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Users.

create()
Create a new user.

default_sort_column_name = 'name'

objects_key = 'users'

resource_type
alias of User

update(*user_id*)
Update a user.

class dokomoforms.handlers.api.v0.**NodeResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Nodes.

BaseResource sets the serializer, which uses the dokomo models' ModelJSONEncoder for json conversion.

create()
Create a new node.

default_sort_column_name = 'last_update_time'

objects_key = 'nodes'

resource_type
alias of Node

class dokomoforms.handlers.api.v0.**PhotoResource**(**args*, ***kwargs*)
Bases: *dokomoforms.handlers.api.v0.base.BaseResource*

Restless resource for Photos.

create()
Create a Photo. Must match an existing PhotoAnswer.

default_sort_column_name = 'created_on'

is_authenticated()
Allow unauthenticated POSTs.

objects_key = 'photos'

resource_type
alias of Photo

dokomoforms.handlers.user package

Submodules

dokomoforms.handlers.user.admin module Admin view handlers.

class dokomoforms.handlers.user.admin.**AdminHomepageHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for the main Administrator interface.

get()
GET the admin interface.

class dokomoforms.handlers.user.admin.**ViewSubmissionHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for viewing a submission.

get(*submission_id: str*)
GET the visualization page.

class dokomoforms.handlers.user.admin.**ViewSurveyDataHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting a single survey's data page.

get(*survey_id: str*)
GET the data page.

class dokomoforms.handlers.user.admin.**ViewSurveyHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting a single survey's admin page.

get(*survey_id: str*)
GET the admin page for a survey.

class dokomoforms.handlers.user.admin.**ViewUserAdminHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting the user administration admin page.

get()
GET the user admin page.

dokomoforms.handlers.user.enumerate module Survey view handler.

class dokomoforms.handlers.user.enumerate.**Enumerate**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

View and submit to a survey.

get(*survey_id*)
GET the main survey view.

Render survey page for given survey id, embed JSON into to template so browser can cache survey in HTML.

Raises tornado http error.

@survey_id: Requested survey id.

class dokomoforms.handlers.user.enumerate.**EnumerateHomepageHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for the main Enumerator interface.

get()
GET the enumerate interface.

class dokomoforms.handlers.user.enumerate.**EnumerateTitle**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

View and submit to a survey identified by title.

get (*title*)
GET the main survey view.

Render survey page for given survey title, embed JSON into to template so browser can cache survey in HTML.

Checks for Survey.url_slug

Raises tornado http error.

Module contents The handlers for view pages.

Submodules

dokomoforms.handlers.auth module

Authentication handlers.

class dokomoforms.handlers.auth.**CheckLoginStatus** (*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

An endpoint for the application to check login status.

post ()
2xx good, 5xx bad.

class dokomoforms.handlers.auth.**GenerateToken** (*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

GET your token here. GETting twice resets the token.

get ()
Set a new token for the logged in user and return the token.

class dokomoforms.handlers.auth.**Login** (*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

POST here to verify the assertion generated by Mozilla Persona.

post ()
POST to Mozilla's verifier service.

Accepts: { "assertion": <assertion> }

Then, POSTS to https://verifier.login.persona.org/verify to verify that the assertion is valid. If so, attempts to log the user in by e-mail.

Responds with: 200 OK { "email": <e-mail address> }

Raises **tornado.web.HTTPError** – 400 Bad Request if the assertion is not verified 422 Unprocessable Entity if the e-mail address is not associated with a user account.

class dokomoforms.handlers.auth.**Logout** (*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

POST here to log out.

post ()
Delete the "user" cookie.

Note that this can't be done in JavaScript because the user cookie is httponly.

dokomoforms.handlers.debug module

Pages pertaining to debug-specific functionality.

class dokomoforms.handlers.debug.**DebugLoginHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Use this page to log in as any existing user.

get(*email='test@test_email.com'*, *created=False*)
Log in by supplying an e-mail address.

class dokomoforms.handlers.debug.**DebugLogoutHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Log out by visiting this page.

get()
Clear the 'user' cookie.

class dokomoforms.handlers.debug.**DebugPersonaHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For testing purposes there's no need to hit the real URL.

check_xsrf_cookie()
No need for this...

post()
The test user has logged in.

class dokomoforms.handlers.debug.**DebugRevisitHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For testing purposes there's no need to hit Revisit proper.

check_xsrf_cookie()
Debug endpoint.

get()
Get dummy facilities.

post()
Add a facility.

class dokomoforms.handlers.debug.**DebugToggleRevisitHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For turning the fake Revisit endpoint off and on.

get()
Toggle the 'online' state of the GET endpoint.

class dokomoforms.handlers.debug.**DebugToggleRevisitSlowModeHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For toggling slow mode.

get()
Toggle the 'slow' state of the GET endpoint.

class dokomoforms.handlers.debug.**DebugUserCreationHandler**(*application*, *request*, ***kwargs*)

Bases: *dokomoforms.handlers.util.BaseHandler*

Use this page to create a user.

get(*email='test@test_email.com'*)

Log in for any user (creating one if necessary).

dokomoforms.handlers.debug.**revisit_debug**()

dokomoforms.handlers.root module

Administrative handlers.

class dokomoforms.handlers.root.**Index**(*application*, *request*, ***kwargs*)

Bases: *dokomoforms.handlers.util.BaseHandler*

The root URL.

get(*msg=''*)

GET /.

class dokomoforms.handlers.root.**NotFound**(*application*, *request*, ***kwargs*)

Bases: *dokomoforms.handlers.util.BaseHandler*

This is the "default" handler according to Tornado.

prepare()

Raise a 404 for any URL without an explicitly defined handler.

Raises **tornado.web.HTTPError** – 404 Not Found

write_error(**args*, ***kwargs*)

Serve the custom 404 page.

dokomoforms.handlers.util module

Useful reusable functions for handlers, plus the BaseHandler.

class dokomoforms.handlers.util.**BaseAPIHandler**(*application*, *request*, ***kwargs*)

Bases: *dokomoforms.handlers.util.BaseHandler*

The Tornado handler class for API resource classes.

api_root_path

The API URL up to the version number.

api_version

The API version.

check_xsrf_cookie()

Do not check XSRF for an API request (usually).

class dokomoforms.handlers.util.**BaseHandler**(*application*, *request*, ***kwargs*)

Bases: tornado.web.RequestHandler

The base class for handlers.

Makes the database session and current user available.

current_user_model

Return the current logged in User, or None.

get(**args*, ***kwargs*)
404 unless this method is overridden.

The presence of this GET method means that endpoints which only accept POST are hidden from browsers.

Raises **tornado.web.HTTPError** – 404 Not Found

get_current_user() → str
Make current_user accessible.

You probably shouldn't override this method. It makes {{ current_user }} accessible to templates and self.current_user accessible to handlers.

Returns a string containing the user name.

get_template_namespace()
Template functions.

TODO: Find a way to get rid of this. @jmwohl

num_surveys_for_menu = 20

prepare()
Default behavior before any HTTP method.

By default, just sets up the XSRF token.

session
The SQLAlchemy session for interacting with the models.

Returns the SQLAlchemy session

set_default_headers()
Add some security-flavored headers.

https://news.ycombinator.com/item?id=10143082

user_default_language
Return the logged-in User's default language, or None.

user_survey_language(*survey*)
Return the logged-in User's selected language for the given survey, or None if they do not have one.

write_error(*status_code*, ***kwargs*)
Deal with 404 errors.

dokomoforms.handlers.util.**auth_redirect**(*self*)
The URL redirect logic extracted from tornado.web.authenticated.

dokomoforms.handlers.util.**authenticated_admin**(*method*)
A copy of tornado.web.authenticated for Administrator access.

Module contents

All the Tornado RequestHandlers used in Dokomo Forms.

class dokomoforms.handlers.**Index**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The root URL.

get(*msg=''*)
GET /.

class dokomoforms.handlers.**NotFound**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

This is the "default" handler according to Tornado.

prepare()
Raise a 404 for any URL without an explicitly defined handler.

Raises **tornado.web.HTTPError** – 404 Not Found

write_error(**args*, ***kwargs*)
Serve the custom 404 page.

class dokomoforms.handlers.**Login**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

POST here to verify the assertion generated by Mozilla Persona.

post()
POST to Mozilla's verifier service.

Accepts: { "assertion": <assertion> }

Then, POSTS to https://verifier.login.persona.org/verify to verify that the assertion is valid. If so, attempts to log the user in by e-mail.

Responds with: 200 OK { "email": <e-mail address> }

Raises **tornado.web.HTTPError** – 400 Bad Request if the assertion is not verified 422 Unprocessable Entity if the e-mail address is not associated with a user account.

class dokomoforms.handlers.**Logout**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

POST here to log out.

post()
Delete the "user" cookie.

Note that this can't be done in JavaScript because the user cookie is httponly.

class dokomoforms.handlers.**GenerateToken**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

GET your token here. GETting twice resets the token.

get()
Set a new token for the logged in user and return the token.

class dokomoforms.handlers.**AdminHomepageHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for the main Administrator interface.

get()
GET the admin interface.

class dokomoforms.handlers.**CheckLoginStatus**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

An endpoint for the application to check login status.

post()
2xx good, 5xx bad.

class dokomoforms.handlers.**ViewSurveyHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting a single survey's admin page.

get(*survey_id: str*)
GET the admin page for a survey.

class dokomoforms.handlers.**ViewSurveyDataHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting a single survey's data page.

get(*survey_id: str*)
GET the data page.

class dokomoforms.handlers.**ViewUserAdminHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for getting the user administration admin page.

get()
GET the user admin page.

class dokomoforms.handlers.**ViewSubmissionHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for viewing a submission.

get(*submission_id: str*)
GET the visualization page.

class dokomoforms.handlers.**EnumerateHomepageHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

The endpoint for the main Enumerator interface.

get()
GET the enumerate interface.

class dokomoforms.handlers.**Enumerate**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

View and submit to a survey.

get(*survey_id*)
GET the main survey view.

Render survey page for given survey id, embed JSON into to template so browser can cache survey in HTML.

Raises tornado http error.

@survey_id: Requested survey id.

class dokomoforms.handlers.**EnumerateTitle**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

View and submit to a survey identified by title.

get(*title*)
GET the main survey view.

Render survey page for given survey title, embed JSON into to template so browser can cache survey in HTML.

Checks for Survey.url_slug

Raises tornado http error.

class dokomoforms.handlers.**DebugUserCreationHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Use this page to create a user.

get(*email='test@test_email.com'*)
Log in for any user (creating one if necessary).

class dokomoforms.handlers.**DebugLoginHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Use this page to log in as any existing user.

get(*email='test@test_email.com'*, *created=False*)
Log in by supplying an e-mail address.

class dokomoforms.handlers.**DebugLogoutHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Log out by visiting this page.

get()
Clear the 'user' cookie.

class dokomoforms.handlers.**DebugPersonaHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For testing purposes there's no need to hit the real URL.

check_xsrf_cookie()
No need for this...

post()
The test user has logged in.

class dokomoforms.handlers.**DebugRevisitHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For testing purposes there's no need to hit Revisit proper.

check_xsrf_cookie()
Debug endpoint.

get()
Get dummy facilities.

post()
Add a facility.

class dokomoforms.handlers.**DebugToggleRevisitHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For turning the fake Revisit endpoint off and on.

get()
Toggle the 'online' state of the GET endpoint.

class dokomoforms.handlers.**DebugToggleRevisitSlowModeHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

For toggling slow mode.

get()
Toggle the 'slow' state of the GET endpoint.

class dokomoforms.handlers.**DemoUserCreationHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Use this page to log in as the demo user.

get()
Create the demo account (if necessary) and log in.

class dokomoforms.handlers.**DemoLogoutHandler**(*application*, *request*, ***kwargs*)
Bases: *dokomoforms.handlers.util.BaseHandler*

Log out by visiting this page.

get()
Clear the 'user' cookie.

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 possibilites.

__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 0x7fb19628f5

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 0x7fb196218ca8

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

Raies 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*) → dokomoforms.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 dokomforms.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=Fals

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 psycpg2 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*, *language=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=Fals

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 psycpg2 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*) → dokomoforms.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 possibilites.

__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 0x7fb19628f5

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*) → 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

Raies 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 'unathenticated' 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.

CHAPTER 2

webapp module

Main Dokomo Forms entry point.

Execute this script to start the Tornado server and WSGI container. It will ensure that the proper tables and extensions exist in the specified schema of the PostgreSQL database.

The application looks for gettext translation files like locale/{locale}/LC_MESSAGES/dokomoforms.mo

class webapp.**Application**(*session=None*, *options=<tornado.options.OptionParser object>*)
Bases: tornado.web.Application

The tornado.web.Application for Dokomo Forms.

__init__(*session=None*, *options=<tornado.options.OptionParser object>*)
Set up the application with handlers and a db connection.

Defines the URLs (with associated handlers) and settings for the application, drops the database schema (if the user selected that option), then prepares the database and creates a session.

webapp.**api_url**(*path*, **args*, ***kwargs*)
Prepend the API path to API URLs.

webapp.**ensure_that_user_wants_to_drop_schema**()
Check that user asked to drop the schema intentionally.

Interrogates the user to make sure that the schema specified by options.schema should be dropped. If the user decides against it, exits the application.

webapp.**get_cookie_secret**() → bytes
Return the secret from the cookie_secret file.

The cookie secret is in the file <project_directory>/cookie_secret. If the file doesn't exist, the script will exit with code 1 and tell the user how to generate it.

Returns the cookie secret as bytes

webapp.**main**(*msg=None*)
Start the Tornado web server.

webapp.**modify_text**(*text: str*, *modifier: str*) → str
Modify text for printing to the command line.

Parameters

- **text** – the string to modify
- **modifier** – the escape sequence that marks the modifier

Returns the modified string

webapp.**setup_file_loggers**(*log_level: str*)
Handles application, Tornado, and SQLAlchemy logging configuration.

webapp.**start_http_server**(*http_server*, *port*)
Start the server, with the option to kill anything using the port.

CHAPTER 3

Indices and tables

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