link.json Documentation

Release 0.11

David Delassus

September 16, 2016

Contents

link.json provides some utilities for JSON like:

- JSON Schema (validation and generation)
- JSON Patch
- Collection+JSON
- ...

Checkout the source code on Github.

CHAPTER 1

Installation

```
pip install link.json
```

CHAPTER 2

Contents

2.1 API documentation

2.1.1 link.json package

Submodules

link.json.collection module

class link.json.collection.**CollectionJSONResponse**(*href*, *links=None*, *items=None*, *queries=None*, *template=None*, *error=None*, **args*, ***kwargs*)

Bases: object

Helper class used to generate valid Collection+JSON objects.

ITEM_ID = 'id'

json()

Generate JSON object.

Returns Collection+JSON object

Return type dict

classmethod make_item(*href*, *document*, *schema=None*)

static template_from_schema(*schema*)

link.json.collection.**generate_collection_response**(*href*, *links=None*, *items=None*, *queries=None*, *schema=None*, *error=None*)

Helper instantiating a CollectionJSONResponse class using the default schema.

Parameters

- **href** (*str*) – Base URL
- **links** (*list*) – Optional list of links
- **items** (*list*) – Optional list of items
- **queries** (*list*) – Optional list of queries
- **schema** (*dict*) – Optional item schema
- **error** (*dict*) – Optional error

Returns Collection+JSON object

Return type dict

link.json.exceptions module

exception link.json.exceptions.**JsonError**
Bases: exceptions.Exception

Base error raised in this package.

exception link.json.exceptions.**JsonTransformationError**
Bases: *link.json.exceptions.JsonError*

Transformation error.

exception link.json.exceptions.**JsonValidationError**
Bases: *link.json.exceptions.JsonError*

Validation error.

link.json.resolver module

class link.json.resolver.**JsonResolver**(*base_uri=''*, *referrer=None*, ***kwargs*)
Bases: jsonschema.validators.RefResolver

Resolve JSON references.

See: https://tools.ietf.org/html/draft-pbryan-zyp-json-ref-03

resolve_remote(*uri*)

link.json.schema module

class link.json.schema.**JsonSchema**(**args*, ***kwargs*)
Bases: object

Helper class used to validate data with the JSON Schema specification.

See: http://json-schema.org

isvalid(*schema_or_url*, *data*)
Check if data is validated by schema.

Parameters

- **schema_or_url** (*dict or str*) – Schema used for validation, or URL pointing to it
- **data** (*any*) – Data to validate

Returns `True` if data is valid, `False` otherwise

Return type bool

validate(*schema_or_url*, *data*)
Validate data against schema.

Parameters

- **schema_or_url** (*dict or str*) – Schema used for validation, or URL pointing to it

- **data** (*any*) – Data to validate

Raises **JsonValidationError** – if data is not validated by schema

link.json.generator module

class link.json.generator.**SchemaGenerator**
Bases: object

Class used to generate JSON schema from data.

DRAFT = 'http://json-schema.org/draft-04/schema#'

exception Error
Bases: exceptions.Exception

Error raised when an error occured during schema generation.

SchemaGenerator.**get_type**(*obj*)
Get JSON type from object.

Parameters **obj** (*any JSON serializable basic type*) – Object to guess type name from.

Returns JSON type name

Return type str

Raises SchemaGenerator.Error: when obj is not a valid type

SchemaGenerator.**get_unique_keys**(*properties*, *obj*, *required*)
Get required keys from object.

SchemaGenerator.**process_array**(*obj*, *output=None*, *nested=False*)
Guess schema of array's items.

SchemaGenerator.**process_object**(*obj*, *output=None*, *nested=False*)
Guess schema of object's properties.

link.json.transform module

class link.json.transform.**JsonTransform**(*source*, *patch*, *target*, **args*, ***kwargs*)
Bases: object

Apply a transformation on data.

A schema is used to validate the input data, and the output data. A JSON Patch is used to apply the transformation.

See: http://jsonpatch.com

patch

source

target

Module contents

CHAPTER 3

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