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# TCRUDge Documentation

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**CodeTeam**

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<b>1</b>	<b>Subpackages</b>	<b>1</b>
1.1	tcrudge.utils package . . . . .	1
<b>2</b>	<b>Submodules</b>	<b>3</b>
<b>3</b>	<b>tcrudge.decorators module</b>	<b>5</b>
<b>4</b>	<b>tcrudge.handlers module</b>	<b>7</b>
<b>5</b>	<b>tcrudge.models module</b>	<b>9</b>
<b>6</b>	<b>tcrudge.response module</b>	<b>11</b>
<b>7</b>	<b>Module contents</b>	<b>13</b>
	<b>Python Module Index</b>	<b>15</b>



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## Subpackages

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### 1.1 tcrudge.utils package

#### 1.1.1 Submodules

#### 1.1.2 tcrudge.utils.json module

`tcrudge.utils.json.json_serial(obj)`

JSON serializer for objects not serializable by default json code.

**Parameters** `obj` (*date, datetime or UUID*) – object to serialize

**Returns** formatted and serialized object

**Return type** str

#### 1.1.3 tcrudge.utils.validation module

Module for common validation tools.

`tcrudge.utils.validation.validate_integer(val, min_value=None, max_value=None, default=None)`

Validates the input val parameter.

If it is can not be converted to integer, returns default\_value.

If it is less than min\_value, returns min\_value.

If it is greater than max\_value, returns max\_value.

**Parameters**

- **val** (*int, float, digital string*) – number to validate
- **min\_value** (*int*) – min value of validation range
- **max\_value** (*int*) – max value of validation range
- **default** (*int*) – default value to return in case of exception

**Returns** None, min, max, default or result - int

**Return type** NoneType, int

### 1.1.4 Module contents

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**Submodules**

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**tcrudge.decorators module**

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**tcrudge.handlers module**

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**tcrudge.models module**

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## tcrudge.response module

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Functions to handle different response formats must receive two arguments:

- handler: subclass of tornado.web.RequestHandler;
- answer: dictionary with response data.

And it should return bytes.

`tcrudge.response.response_json(handler, response)`

Default JSON response.

Sets JSON content type to given handler.

Serializes result with JSON serializer and sends JSON as response body.

**Returns** Bytes of JSONised response

**Return type** bytes

`tcrudge.response.response_msgpack(handler, response)`

Optional MSGPACK response.

Sets MSGPACK content type to given handler.

Packs response with MSGPACK.

**Returns** Bytes of MSGPACK packed response

**Return type** bytes





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## Module contents

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Simple async CRUDL framework based on Tornado and Peewee ORM.

Validates input using JSON-schema.

Supports JSON and MessagePack responses.



## t

- `tcrudge`, [13](#)
- `tcrudge.response`, [11](#)
- `tcrudge.utils`, [2](#)
- `tcrudge.utils.json`, [1](#)
- `tcrudge.utils.validation`, [1](#)



## J

[json\\_serial\(\)](#) (in module [tcrudge.utils.json](#)), 1

## R

[response\\_json\(\)](#) (in module [tcrudge.response](#)), 11

[response\\_msgpack\(\)](#) (in module [tcrudge.response](#)), 11

## T

[tcrudge](#) (module), 13

[tcrudge.response](#) (module), 11

[tcrudge.utils](#) (module), 2

[tcrudge.utils.json](#) (module), 1

[tcrudge.utils.validation](#) (module), 1

## V

[validate\\_integer\(\)](#) (in module [tcrudge.utils.validation](#)), 1