python-json-patch-ext

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THE JSONPATCHEXT MODULE

class jsonpatchext.**CheckOperation**(*operation*)
Check value by specified location using a comparator.

apply(*obj*)
Abstract method that applies a patch operation to the specified object.

jsonpatchext.**EqualsComparator**(*current*, *compare*)
Compare if the values are exactly equals.

class jsonpatchext.**JsonPatchExt**(*patch*)
A JSON Patch is a list of Patch Operations.

This modules add 3 more operations: 'check', 'mutate' and 'merge'.

```
>>> def StartsWithComparator(current, compare):
...     if current.startswith(compare):
...         msg = '{0} ({1}) does not starts with {2} ({3})'
...         raise JsonPatchTestFailed(msg.format(current, type(current), compare,␣
↪type(compare)))
...
>>> def RemoveLastMutator(current, value):
...     return current[:-1]
...
>>> patch = JsonPatchExt([
...     {'op': 'add', 'path': '/foo', 'value': {'bar': 'barvalue'}},
...     {'op': 'check', 'path': '/foo/bar', 'value': 'bar', 'cmp': 'equals'},
...     {'op': 'merge', 'path': '/foo', 'value': {'newbar': 'newbarvalue'}},
...     {'op': 'check', 'path': '/foo/newbar', 'value': 'newb', 'cmp': 'custom',
↪'comparator': StartsWithComparator},
...     {'op': 'mutate', 'path': '/foo/newbar', 'mut': 'uppercase'},
...     {'op': 'mutate', 'path': '/foo/newbar', 'mut': 'custom', 'mutator':␣
↪RemoveLastMutator},
...     {'op': 'mutate', 'path': '/foo/bar', 'mut': ['uppercase', ('custom',␣
↪RemoveLastMutator)]},
... ])
>>> doc = {}
>>> result = patch.apply(doc)
>>> expected = {'foo': {'bar': 'BARVALU', 'newbar': 'NEWBARVALU'}}
>>> result == expected
True
```

class jsonpatchext.**MergeOperation**(*operation*)
Merges an object property or an array element with a new value, using package deepmerge.

apply(*obj*)
Abstract method that applies a patch operation to the specified object.

jsonpatchext.**apply_patch**(*doc*, *patch*, *in_place=False*)

Apply list of patches to specified json document.

Parameters

- **doc** (*dict*) – Document object.
- **patch** (*list or str*) – JSON patch as list of dicts or raw JSON-encoded string.
- **in_place** (*bool*) – While `True` patch will modify target document. By default patch will be applied to document copy.

Returns Patched document object.

Return type dict

jsonpatchext.**make_patch**(*src*, *dst*)

Generates patch by comparing two document objects. Actually is a proxy to `JsonPatch.from_diff()` method.

Parameters

- **src** (*dict*) – Data source document object.
- **dst** (*dict*) – Data source document object.

CHAPTER

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