

Status Codes

Informational - 1xx

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Helper functions

status.py

Status Codes

“ 418 I'm a teapot - Any attempt to brew coffee with a teapot should result in the error code "418 I'm a teapot". The resulting entity body MAY be short and stout.

— [RFC 2324](#), Hyper Text Coffee Pot Control Protocol

Using bare status codes in your responses isn't recommended. REST framework includes a set of named constants that you can use to make more code more obvious and readable.

```
from rest_framework import status
from rest_framework.response import Response

def empty_view(self):
    content = {'please move along': 'nothing to see here'}
    return Response(content, status=status.HTTP_404_NOT_FOUND)
```

The full set of HTTP status codes included in the `status` module is listed below.

The module also includes a set of helper functions for testing if a status code is in a given range.

```
from rest_framework import status
from rest_framework.test import APITestCase

class ExampleTestCase(APITestCase):
    def test_url_root(self):
        url = reverse('index')
        response = self.client.get(url)
        self.assertTrue(status.is_success(response.status_code))
```

For more information on proper usage of HTTP status codes see [RFC 2616](#) and [RFC 6585](#).

Informational - 1xx

This class of status code indicates a provisional response. There are no 1xx status codes used in REST framework by default.

```
HTTP_100_CONTINUE  
HTTP_101_SWITCHING_PROTOCOLS
```

Successful - 2xx

This class of status code indicates that the client's request was successfully received, understood, and accepted.

```
HTTP_200_OK  
HTTP_201_CREATED  
HTTP_202_ACCEPTED  
HTTP_203_NON_AUTHORITATIVE_INFORMATION  
HTTP_204_NO_CONTENT  
HTTP_205_RESET_CONTENT  
HTTP_206_PARTIAL_CONTENT  
HTTP_207_MULTI_STATUS
```

Redirection - 3xx

This class of status code indicates that further action needs to be taken by the user agent in order to fulfill the request.

```
HTTP_300_MULTIPLE_CHOICES  
HTTP_301_MOVED_PERMANENTLY  
HTTP_302_FOUND  
HTTP_303_SEE_OTHER  
HTTP_304_NOT_MODIFIED  
HTTP_305_USE_PROXY  
HTTP_306_RESERVED  
HTTP_307_TEMPORARY_REDIRECT
```

Client Error - 4xx

The 4xx class of status code is intended for cases in which the client seems to have erred. Except when responding to a HEAD request, the server **SHOULD** include an entity containing an explanation of the error situation, and whether it is a temporary or permanent condition.

```
HTTP_400_BAD_REQUEST  
HTTP_401_UNAUTHORIZED  
HTTP_402_PAYMENT_REQUIRED  
HTTP_403_FORBIDDEN  
HTTP_404_NOT_FOUND
```

```
HTTP_405_METHOD_NOT_ALLOWED
HTTP_406_NOT_ACCEPTABLE
HTTP_407_PROXY_AUTHENTICATION_REQUIRED
HTTP_408_REQUEST_TIMEOUT
HTTP_409_CONFLICT
HTTP_410_GONE
HTTP_411_LENGTH_REQUIRED
HTTP_412_PRECONDITION_FAILED
HTTP_413_REQUEST_ENTITY_TOO_LARGE
HTTP_414_REQUEST_URI_TOO_LONG
HTTP_415_UNSUPPORTED_MEDIA_TYPE
HTTP_416_REQUESTED_RANGE_NOT_SATISFIABLE
HTTP_417_EXPECTATION_FAILED
HTTP_422_UNPROCESSABLE_ENTITY
HTTP_423_LOCKED
HTTP_424_FAILED_DEPENDENCY
HTTP_428_PRECONDITION_REQUIRED
HTTP_429_TOO_MANY_REQUESTS
HTTP_431_REQUEST_HEADER_FIELDS_TOO_LARGE
HTTP_451_UNAVAILABLE_FOR_LEGAL_REASONS
```

Server Error - 5xx

Response status codes beginning with the digit "5" indicate cases in which the server is aware that it has erred or is incapable of performing the request. Except when responding to a HEAD request, the server SHOULD include an entity containing an explanation of the error situation, and whether it is a temporary or permanent condition.

```
HTTP_500_INTERNAL_SERVER_ERROR
HTTP_501_NOT_IMPLEMENTED
HTTP_502_BAD_GATEWAY
HTTP_503_SERVICE_UNAVAILABLE
HTTP_504_GATEWAY_TIMEOUT
HTTP_505_HTTP_VERSION_NOT_SUPPORTED
HTTP_507_INSUFFICIENT_STORAGE
HTTP_511_NETWORK_AUTHENTICATION_REQUIRED
```

Helper functions

The following helper functions are available for identifying the category of the response code.

```
is_informational() # 1xx
is_success()       # 2xx
is_redirect()      # 3xx
is_client_error()  # 4xx
is_server_error()  # 5xx
```

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