



Response Codes and Pagination

Response codes should communicate only what the developer consuming an API needs.

Scenario

GET /users/U124

404 Not Found

Scenario

GET /users/U124

404 Not Found

GET /users/U123

403 Forbidden

Seven Minimal Status Codes

- 200 OK
- 201 Created
- 304 Not Modified
- 400 Bad Request
- 401 Unauthorized
- 404 Not Found
- 500 Server Error

Response Payloads

200 OK

```
{ "400": "Bad Request" }
```

Response Payloads

200 OK

```
{ "400": "Bad Request" }
```

500 Internal Server Error

```
{ "500": "Internal Error",  
  "message": "Failure in querying  
MySQL database on 10.3.4.33" }
```

Response Payloads

400 Bad Request

```
{ "errorCode":"400.01",  
  "errorMessage":"Missing required  
parameters in payload.",  
  "docksLink":"http://docs/api/the  
-resource" }
```


Response Payloads

400 Bad Request

```
{ "errorCode":"400.01",  
  "errorMessage":"Missing required  
parameters in payload.",  
  "docksLink":"http://docs/api/the-  
resource" }
```

500 Internal Server Error

```
{ "errorCode":"500.01",  
  "errorMessage":"Internal server  
error occurred.",  
  "message":"Report error by  
e-mailing errors@mycorp.com",  
  "correlationId":"C4444-23"}
```

When should pagination be used?

- An unknown number of results.
- Results are of the same resource type.

When not to use pagination?

- When the payload is not a list of objects.
- Small, known number of results never to exceed a handful (e.g. 5-10)

Best Practices for Pagination (1)

```
{  
  "pagination": {  
    "page": 4,  
    "pageSize": 10,  
    "items": 10  
  },  
  "items": []  
}
```

Best Practices for Pagination (2)

```
{
  "pagination": {
    "page": 4,
    "pageSize": 10,
    "items": 10,
    "next":
    "https://.../resource?page=5&pageSize=10",
    "prev":
    "https://.../resource?page=3&pageSize=10"
  },
  "items": []
}
```

Best Practices for Pagination (3)

```
{
  "pagination": {
    "page": 4,
    "pageSize": 10,
    "items": 10,
    "next": "https://.../resource?page=5&pageSize=10",
    "prev": "https://.../resource?page=3&pageSize=10"
  },
  "items": [
    { "id": "fjones123", "first_name": "Fred",
      "last_name": "Jones",
        "href": "https://.../people/fjones123" },
    {...}, {...}, ...
  ]
}
```



Thank You