

REST

Introduction

... Representational State
Transfer

Client - Server

Stateless

Cacheable

Identity is present

Hyperlinks

Idempotency

(Json)

Stateless

Server kann sich keinen Zustand merken

Besser für:

Caching

Skalierbarkeit

Idempotenz

Jeder Zugriff kann verloren gehen und wieder gesendet werden.

Das darf dem System nichts ausmachen.

HTTP Verben

HTTP Verb	CRUD	Entire Collection (e.g. /customers)	Specific Item (e.g. /customers/{id})
POST	Create	201 (Created), 'Location' header with link to /customers/{id} containing new ID.	404 (Not Found), 409 (Conflict) if resource already exists..
GET	Read	200 (OK), list of customers. Use pagination, sorting and filtering to navigate big lists.	200 (OK), single customer. 404 (Not Found), if ID not found or invalid.
PUT	Update/Replace	405 (Method Not Allowed), unless you want to update/replace every resource in the entire collection.	200 (OK) or 204 (No Content). 404 (Not Found), if ID not found or invalid.
PATCH	Update/Modify	405 (Method Not Allowed), unless you want to modify the collection itself.	200 (OK) or 204 (No Content). 404 (Not Found), if ID not found or invalid.
DELETE	Delete	405 (Method Not Allowed), unless you want to delete the whole collection—not often desirable.	200 (OK). 404 (Not Found), if ID not found or invalid.

GET

Get resource from server

IDEMPOTENT & CACHEABLE

Doesn't affect the status of the server

Successful requests return 200 (OK)

PUT

Full update

IDEMPOTENT

If exists: update, else: create

Successful requests return 200 (OK), 201 (created) or 204 (no content)

PATCH

Partial update

NOT IDEMPOTENT!

```
{ "op": "move", "from": "/a/b/c", "path":  
  "/a/b/d" } (move resource)
```

Successful requests return 2xx

DELETE

Delete a resource on the server

IDEMPOTENT

"See that the resource (ID=2) is not there."

Successful requests return 202 (accepted),
200 (OK), 204 (no content)

HTTP Status Codes

https://en.wikipedia.org/wiki/List_of_HTTP_status_codes

