







REST

Representational State Transfer

Transferring State (information) in different representations (XML/**JSON**/CSV/HTML/TEXT/...)

There is standards like WSDL (for SOAP) in REST

Client and server **exchange data** in the form of (mostly) JSON

Clients are typically JavaScript application (or mobile apps), which run directly on the end-user's browser (or mobile)

State (or data) is represented on the server --> resource

A Resource is identified using a URI (~URL) --> **http://example.com/api/products**

A Resource can be manipulated using HTTP request methods (**GET/POST/PUT/PATCH/DELETE**) <-- VERBS

Client and Server can negotiate for the kind (representation) of data (CONNEG)

CONNEG is done using HTTP request/response headers called '**Accept**' and '**Content-Type**'

The concept of RESTful services is based on 6 constraints laid out by Roy Fielding, creator of HTTP protocol:

1. Client/server application
2. Stateless
3. Uniform interface
4. Layered system
5. Cacheable
6. Code on demand (OPTIONAL)

