

# Télécom Saint-Étienne :Master Web-Intelligence

## Web Services (TD3)

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### 2.4.1 Question 5 : REST vs SOAP

List the verbs that can be sent as a REST Request. To see what the verb you can take a look to the class Verb used in request creation. Please explain the difference between REST and SOAP from this standpoint.

The verbs that can be sent as a REST Request:

R : GET ---- retrieves a representation of a resource.

PUT/POST ---- adds a resource to the server.

PUT/POST ---- modifies an existing resource.

DELETE ---- deletes an existing resource.

HEAD ---- gets meta-data about a resource.

Similar to CRUD( Create, Read, Update & Delete )

The difference between REST and SOAP from this standpoint:

R : REST is a bit of a paradigm shift by focusing on "nouns", and restraining the number of "verbs" you can apply to those nouns. The only allowed verbs are "get", "put", "post" and "delete". This differs from SOAP where many different verbs can be applied to many different nouns (i.e. many different functions).

For example, customer management

#### Uniform(REST)

☑ GET(URI)

☑ PUT(URI, Resource)

☑ POST(Resource)

☑ DELETE(URI)

#### Non-Uniform(SOAP)

☑ GetCustomer()

☑ UpdateCustomer(customer)

☑ AddCustomer(customer)

☑ DeleteCustomer(customer)