Restful API Notes;

1. HTTP methods:

Get, Post, Put and Delete

Get, Put and Delete are Idempotence (Repeatable)

Post is not Idempotence

1. Status Code:

1XX Informational

2XX Success:

200 OK, 201 Created, 204 No Content,

3XX Redirection

302 Found, 307 Temporary Redirect, 304 Not Modified

4XX Client Error

400 Bad Request, 401 Unauthorized, 403 Forbidden, 404 Not Found, 415 Unsupported Media Type

5XX Server Error

500 Internal Server Error,

1. HATEOAS

Hypermedia As The Engine Of Application State

Link on pervious response as the engine of further acess

{

“id”:”1”,

“message”: “Hello World!”,

“created”: “2019-01-01T12:00:00.000”,

“author”: “Hantao”,

“comments-href”: “/messages/1”

“likes-href”: “/messages/1/likes”

“shares-href”: “/messages/1/shares”

“profile-href”: “/profiles/Hantao”

}

rel attribute:

{

“id”:”1”,

“message”: “Hello World!”,

“created”: “2019-01-01T12:00:00.000”,

“author”: “Hantao”,

“links” : [

{

“href”: “/messages/1”,

“rel”: “self”

} ,

{

“href”: “/messages/1/comments”,

“rel”: “comments”

}

]

}

1. The Richardson Maturity Model

How restful an API is?

1. Level 0 not restful

One URI receive all request from client

Swamp of POX (Plain Old XML)

1. Level 1 Resource URI

Individual URIs for each resources, request body still contain methods to be done

1. Level 2 HTTP methods

Uses the right Http methods, status

1. Level 3 HATEOAS (Fully Restful)

Reponses have links that the clients can use