**Spring REST Example**

This tutorial provides a step-by-step guide for building a REST web service using the [Spring](https://spring.io/)framework.

**Prerequisites:**

* Eclipse IDE (Mars release)
* Java 1.8
* Apache Tomcat 8

The only service exposed by our controller is the **pay()** method, which looks very straightforward; it validates the client request using a predefined shared key, processes the request and responds back with the operation status.

Following are the common annotations used by our controller:

* **@RestController:** this annotation marks the class as a Resource, it defines implicitly both @Controller and @ResponseBody MVC annotations, when annotating a class with @RestController, it's not necessary to write @ResponseBody beside the POJO classes returned from your methods.
* **@RequestMapping:** this annotation defines the url of the resource in addition to the method type: GET/POST, in our example we expose the payment service as POST which is accessed through /payment/pay.
* **@RequestParam:** this annotation represents a specific request parameter, in our example, we map a request parameter called key to an argument key of type String.
* **@RequestBody:** this annotation represents the body of the request, in our example, we map the body of the request to a POJO class of type RequestVO(Jackson handles the JSON/POJO conversion).

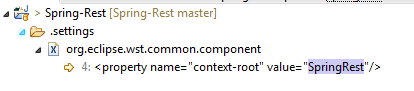
As noticed the response is represented as ResponseVO and there is no need to annotate it, Jackson converts it implicitly to JSON

After deploying the code on Apache use below url to hit

<http://localhost:8080/SpringRest/rest/request/pay?key=SHARED_KEY>

<http://localhost:8080-->> Local Host and Port

SpringRest🡪 ProjectName (We can change below project Name)



/rest/ 🡪ServletMapping URL

Request 🡪Controller

pay 🡪 Service

key=SHARED\_KEY 🡪 Passing Key as SHARED\_KEY to perform logic to send response

We can use Advance Rest Client or Postman to hit web service url

