22. Http basics. Requests. Status codes. RESTful Exception handling

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- ☑ 1.Rest Principles *METHOD URI(ідентифікатор ресурсу)* HTTP/*VERSION*
- ☑ 2.Http status codes
- ☑ 3.Rest open API (swagger vs postmen)
- ☑ 4.Exception handling, @RestControllerAdvices
- ☑ 5.Indempotence meaning

⭐ @RestControllerAdvice is a new feature of Spring Framework 4.3, an annotation with combined @ControllerAdvice + @ResponseBody. So @RestControllerAdvice c us to handle Exception with RestfulApi by a cross-cutting concern solution: @ExceptionHandler.

⭐ **Response Status codes** are split into 5 groups each group has a meanin a **three digit** code.
- **1xx** – Informational 100 101
- **2xx** – Successful 200 2001
- **3xx** -Multiple Choice 302
- **4xx**– Client Error 403 404 401
- **5xx** -Server Error 500

⭐ **Request Types, Methods or Verbs**
The HTTP protocol now support 8 request types, also called methods o in the documentation,they are:
- GET – Requesting resource from server - idem
- POST – submitting a resource to a server (e.g. file uploads) - not idem
- PUT -As POST but replaces a resource - idem
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- HEAD – As GET but only return headers and not content
- OPTIONS -Get the options for the resource

- GET – Requesting resource from server - idem
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  idem
- PUT -As POST but replaces a resource - idem
- DELETE-Delete a resource from a server -idem
- HEAD – As GET but only return headers and not content
- OPTIONS -Get the options for the resource
- PATCH -Apply modifications to a resource
- TRACE -Performs message loop-back