Date: 11/03/2021 Spring Boot 9AM Mr. RAGHU

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Webservices#Theory

https://www.youtube.com/watch?v=fvG7FEU1Rt8

Webservices (ReST)

Http Protocol:

a. Request Method (9)

GET : Fetch Resource (Data) From Provider App

ex: getEmployees(), getEmployeeById()

POST : Create new Resource(Data) From Provider App

ex: saveEmployee(), createProduct()

PUT : Modify existed (HighLevel/Full Data) Resource(Data) From

Provider App

ex: updateEmployee(), modifyEmpData()

DELETE : Remove existed Resource(Data) From Provider App

ex: deleteEmployeeByid()

PATCH : Modify Existed (LowLevel/Partial Data) Resource (Data) From

Provider App

ex: updateEmployeMailById()

HEAD

TRACE

OPTIONS

CONNECT

\*) Al above methods are recomanded standards given to all developers in world. They are not MUST method. They are Good Named methods.

Even we can created rousource using GET, delete using POST, partial update using PUT..etc They are not the coorect usage of Code.

- -> This is a contract between two developers, so naming standard are recomanded to follows.
- -> If we use these Guidelines in wrong way and got output 'It doesnt mean Method Type are wrong'.

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b. Response Status: (at last what happend?)

```
Code Messages
 _____
 *) To define our RestController code (class#method)
 must have
     one unique path
     one Http Method
 must return
    Data In Global Format (XML/JSON)
    Http Status
_____
*) ResponseEntity<T> contains Body(Data) and Http Status
 which behaves like Http Response given back to client.
POSTMAN:
Tool used for testing web/webservice applications.
In simple it is HttpClient that makes request and gets response.
Goto : https://www.postman.com/downloads/
Click on Download Link > Next > Next > Finish
> Open POST MAN > In bottom Skip button exist for first time
  (DO NOT REGISTER)
----code-----
Name: SpringBoot2RestFirstApp
Dep : Spring web
#RestController
package in.nareshit.raghu.controller;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping("/employee")
public class EmployeeRestController {
```

@GetMapping("/show")

```
public ResponseEntity<String> showData() {
               ResponseEntity<String> resp =
                              new ResponseEntity<String>("Hello
GET", HttpStatus.OK);
               return resp;
       @PostMapping("/save")
       public ResponseEntity<String> createData() {
               ResponseEntity<String> resp =
                              new ResponseEntity<String>("Hello
POST", HttpStatus.OK);
               return resp;
       @PutMapping("/modify")
       public ResponseEntity<String> updateData() {
               ResponseEntity<String> resp =
                              new ResponseEntity<String>("Hello
PUT", HttpStatus.OK);
               return resp;
       @DeleteMapping("/remove")
       public ResponseEntity<String> deleteData() {
               ResponseEntity<String> resp =
                             new ResponseEntity<String>("Hello
DELETE", HttpStatus.OK);
               return resp;
       }
       @PatchMapping("/modifymail")
       public ResponseEntity<String> updateMailData() {
               ResponseEntity<String> resp =
                             new ResponseEntity<String>("Hello
PATCH", HttpStatus.OK);
               return resp;
       }
}
*) Run App and Test using POSTMAN.
---Screen#1-----
GET | http://localhost:8080/employee/show | SEND
_____
*) @RestController = @Controller + @ResponseBody + (HTTP ....
additional)
https://www.youtube.com/c/NareshIT/search?query=reactjs%20raghu
```