

Spring Professional Exam Tutorial v5.0

Question 15

Question 15 - Where do you need @ResponseBody? What about @RequestBody?

`@ResponseBody` annotation is needed whenever you want to return serialized response of controller handler method, instead of returning model and view that will be used by template engine to produce response. `@ResponseBody` annotation will bind method return value to web response body and will use `HttpMessageConverter`. (also consider using `@RestController` annotation).

`@RequestBody` annotation is needed whenever you want to bind web request body to controller parameter. `HttpMessageConverter` is used to convert content of request body. Optionally can be used with `@Valid` annotation to invoke automatic Bean Validation (JSR 303/JSR 380). Also, `@RequestBody` annotation allows you to set `required` field to indicate if parameter is required or not.

`@ResponseBody` annotation can be used:

- ▶ On top of class
- ▶ On top of method
- ▶ On top of other annotations

`@RequestBody` annotation can be used:

- ▶ On top of controller method parameter

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```
@Controller
public class Controller {

    @PostMapping("/api/v1/calculateStatistics")
    @ResponseBody
    public CustomerStatistics getStatistics(@RequestBody Customer customer) {
        ...
    }
}
```

```
> POST /api/v1/calculateStatistics HTTP/1.1
> Host: localhost:8080
> User-Agent: curl/7.58.0
> Accept: */*
> Content-Type: application/json
> Content-Length: 63
>
* upload completely sent off: 63 out of 63 bytes
< HTTP/1.1 200
< Content-Type: application/json; charset=UTF-8
< Transfer-Encoding: chunked
< Date: Fri, 08 May 2020 17:41:26 GMT
<
{
  "customer" : {
    "code" : "CS",
    "firstName" : "Christine",
    "lastName" : "Smart"
  },
  "statistics" : {
    "numberOfCharacters" : 16,
    "codeLength" : 2,
    "firstNameLength" : 9,
    "lastNameLength" : 5
  }
}
```

