

1 / 1 point

1. How would you inject into a Controller method an optional parameter from the request i.e. url?id=55 where the id parameter may or may not be present

- ☒ Annotate the method argument with `@RequestParam("id") Optional<Integer> optional`
- ☐ Annotate the method argument with `@PathVariable("id") Optional<Integer> optional`
- ☐ Annotate the method argument with `@PathVariable("id") int id`
- ☐ Annotate the method argument with `@RequestParam("id") int id`

✓ **Correct**

True; the request parameter if present or not will be placed into the Optional, subsequently you can use `optional.orElse(default value)` to set a default value

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2. When accessing a Rest Service at url /abc with an HTTP GET, using RestTemplate, what method would you use to get at the response body immediately.

- ☐ `String string = new RestTemplate().exchange(abc, null, String.class);`
- ☐ `ResponseEntity<String> responseEntity = new ResponseEntity<String> responseEntity = new RestTemplate().exchange("/abc", HttpMethod.GET, null, String.class);`
- ☐ `ResponseEntity<String> entity = new RestTemplate().getForEntity(/abc, String.class);`
- ☒ `String string = new RestTemplate().getForObject(/abc, String.class);`

✓ **Correct**

True; the `getForObject` automatically extracts the payload body from the `ResponseEntity`

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3. What attribute would you add to a `@GetMapping("/")` annotated RestController method to return XML or json

- ☐ `@GetMapping(path="/", produces=MediaType.APPLICATION_XML`
- ☐ `@GetMapping(path="/", consumes=={MediaType.APPLICATION_XML_VALUE, MediaType.APPLICATION_JSON_VALUE})`
- ☒ `@GetMapping(path="/", produces={MediaType.APPLICATION_JSON_VALUE, MediaType.APPLICATION_XML_VALUE})`
- ☐ `@GetMapping("/")`

✓ **Correct**

True; the "produces" attribute does indicate that depending on the accept header, accept: "application/xml, application/json", it will check the desired MediaTypes in the accept header against the list of MediaTypes in the produces list

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4. How can you extract the Header "user-agent" out of the request in a RestController method, to be available in that method for processing

- ☒ `@RequestHeader("user-agent") Optional<String> optional)`

✓ **Correct**

True; this will extract the header and convert it into a Java string argument , then place it into an Optional

- ☐ `@PathVariable("user-agent") String agent)`
- ☐ `@RequestParam("user-agent") Optional<String> optional)`
- ☒ `@RequestHeader("user-agent") String agent)`

✓ **Correct**

True; this will extract the header and convert it into a Java String argument

5. How can you extract the request payload and inject it into a RestController method for processing

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- ☐ @PathVariable
- ☒ @RequestBody
- ☐ @RequestParam
- ☐ @Header

✓ **Correct**

True; this will extract the payload and convert it into a method argument type

6. Which annotation marks an input argument to a RestController method that can ONLY be mandatory

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- ☐ @RequestParam
- ☒ @PathVariable
- ☐ @RequestHeader
- ☐ @RestController

✓ **Correct**

True this type of argument comes from part of the Url itself

7. Which annotation marks an input argument to a RestController as an optional argument from a QueryString

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- ☒ @RequestParam
- ☐ @RequestHeader
- ☐ @RestController
- ☐ @PathVariable

✓ **Correct**

True these types of parameters can be optional if the queryString is present or not

8. In a Spring Boot project using the default setup, If an accept header is not provided in a GET request of a resource representation of a Java object, what MediaType will the response payload take

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- ☐ XML
- ☒ Json
- ☐ Text
- ☐ Java Object

✓ **Correct**

True this is the default MediaType as dictated by the projects classpath

9. In order for converters to translate a request payload on a Post Request to a RestController method, what annotation do you use for the RestControllers method argument

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- ☐ @PostMapping
- ☐ @RequestParam
- ☒ @RequestBody
- ☐ @PathParam

✓ **Correct**

True this will trigger converters in the HandlerAdapters to take the payload and marshal it into the desired Object

10. Which of these methods on RestTemplate must you provide the desired HTTP method as one of the arguments

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- ☐ getForObject
- ☐ postForEntity
- ☒ exchange
- ☐ getForEntity

✓ **Correct**

True it requires to be provided the Http Method as one of its arguments