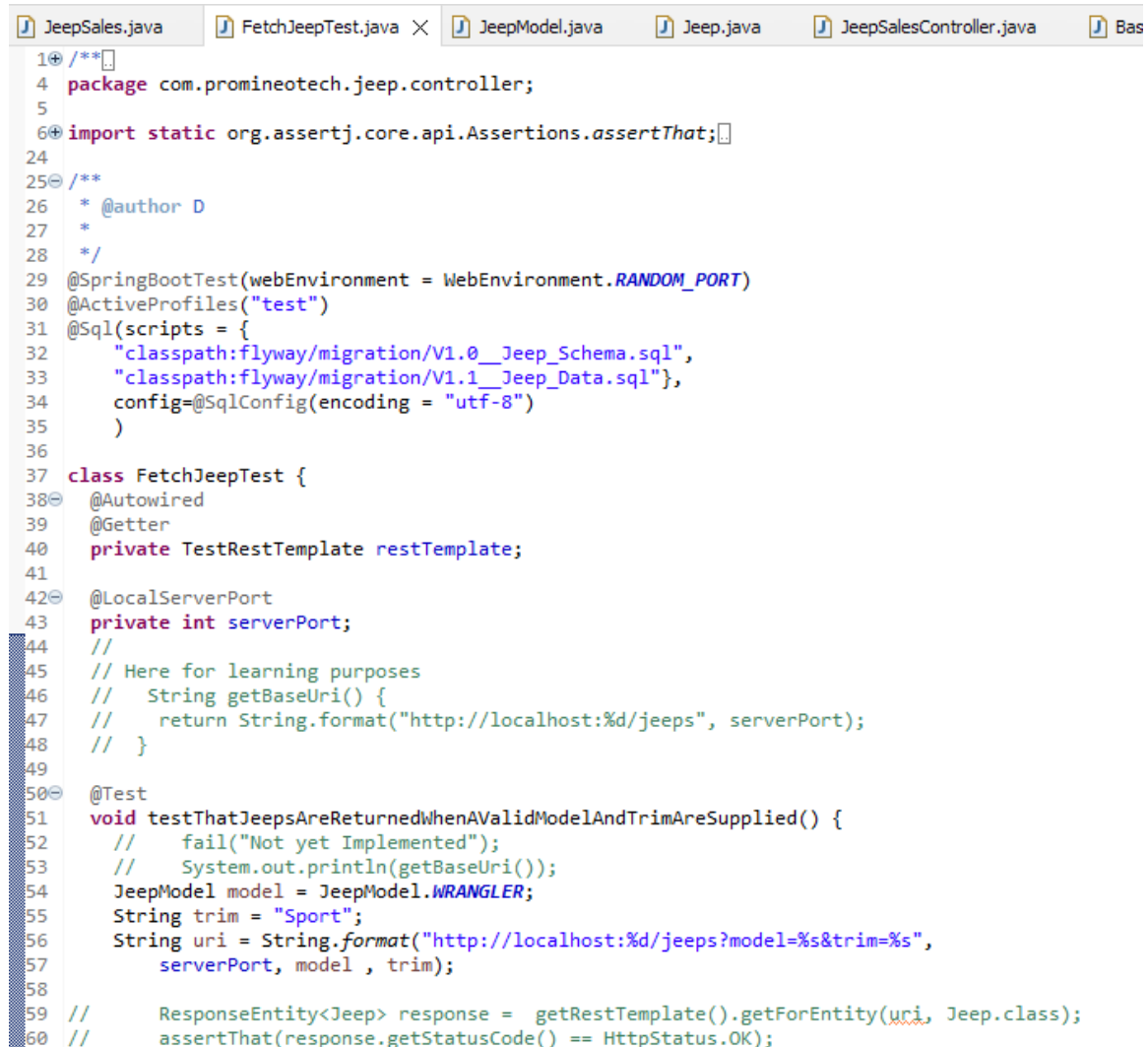


Web API Design with Spring Boot Week 1 Coding Assignment

a) Produce a screenshot showing the completed test class. 🖥️



```
1  /**
4  package com.promineotech.jeepp.controller;
5
6  import static org.assertj.core.api.Assertions.assertThat;
24
25  /**
26   * @author D
27   *
28   */
29  @SpringBootTest(webEnvironment = WebEnvironment.RANDOM_PORT)
30  @ActiveProfiles("test")
31  @Sql(scripts = {
32      "classpath:flyway/migration/V1.0__Jeep_Schema.sql",
33      "classpath:flyway/migration/V1.1__Jeep_Data.sql"},
34      config=@SqlConfig(encoding = "utf-8")
35  )
36
37  class FetchJeepTest {
38      @Autowired
39      @Getter
40      private TestRestTemplate restTemplate;
41
42      @LocalServerPort
43      private int serverPort;
44      //
45      // Here for learning purposes
46      // String getBaseUri() {
47      //     return String.format("http://localhost:%d/jeeps", serverPort);
48      // }
49
50      @Test
51      void testThatJeepsAreReturnedWhenAValidModelAndTrimAreSupplied() {
52          // fail("Not yet Implemented");
53          // System.out.println(getBaseUri());
54          JeepModel model = JeepModel.WRANGLER;
55          String trim = "Sport";
56          String uri = String.format("http://localhost:%d/jeeps?model=%s&trim=%s",
57              serverPort, model, trim);
58
59          // ResponseEntity<Jeep> response = restTemplate().getForEntity(uri, Jeep.class);
60          // assertThat(response.getStatusCode() == HttpStatus.OK);
```


```

51
52 //Whoa even after reading the Super Type Token blog this was a bit mind bending
53 //But to not use an anonymous try this
54 ParameterizedTypeReference<List<Jeep>> typeRef =
55     new ParameterizedTypeReference<List<Jeep>>() {};
56
57     ResponseEntity<List<Jeep>> response
58     = restTemplate.exchange(uri, HttpMethod.GET, null, typeRef);
59 //
60 //     ResponseEntity<List<Jeep>> response
61 //     = restTemplate.exchange(uri, HttpMethod.GET, null,
62 //         new ParameterizedTypeReference<>() {});
63
64     assertThat(response.getStatusCode() == HttpStatus.OK);
65
66
67 }
68
69 }
70

```

Produce a screenshot showing the interface and OpenAPI documentation. 

```
1  /**
4  package com.promineotech.jeepp.controller;
5
6  import java.util.List;
7  import org.springframework.http.HttpStatus;
8  import org.springframework.web.bind.annotation.GetMapping;
9  import org.springframework.web.bind.annotation.RequestMapping;
10 import org.springframework.web.bind.annotation.RequestParam;
11 import org.springframework.web.bind.annotation.ResponseStatus;
12 import com.promineotech.jeepp.entity.Jeepp;
13 import com.promineotech.jeepp.entity.JeeppModel;
14 import io.swagger.v3.oas.annotations.OpenAPIDefinition;
15 import io.swagger.v3.oas.annotations.Operation;
16 import io.swagger.v3.oas.annotations.info.Info;
17 import io.swagger.v3.oas.annotations.responses.ApiResponse;
18 import io.swagger.v3.oas.annotations.servers.Server;
19 import io.swagger.v3.oas.annotations.media.Content;
20 import io.swagger.v3.oas.annotations.media.Schema;
21 import io.swagger.v3.oas.annotations.Parameter;
22
23 /**
24  * @author D
25  *
26  */
27 @RequestMapping("/jeepps")
28
29 @OpenAPIDefinition(info = @Info(title = "Jeep Sales Service"), servers = {
30     @Server(url = "http://localhost:8080", description = "Local server.")})
31
32
33 public interface JeppSalesController {
34     @Operation(
35         summary = "Returns a List of Jeeps",
36         description = "Returns a list of Jeeps , optional params model , trim",
37         responses = {
38             @ApiResponse(responseCode = "200", description = "Success, A list of Jeeps",
39                 content = @Content(
40                     mediaType = "application/json" ,
41                     schema = @Schema(implementation = Jepp.class))),
42             @ApiResponse(responseCode = "400", description = "Request parameters invlaid",
43                 content = @Content(mediaType = "application/json")),
44             @ApiResponse(responseCode = "404", description = "No Jeeps found with given model/trim",
45                 content = @Content(mediaType = "application/json")),
46             @ApiResponse(responseCode = "500", description = "Error 500 ",
47                 content = @Content(mediaType = "application/json"))},
48
49         parameters = {
49             @Parameter(name = "model" , allowEmptyValue = false , description = "The model Name"),
50             @Parameter(name = "trim" , allowEmptyValue = false , description = "The vehicle trim level")
51         }
52     )
53
54     @GetMapping
55     @ResponseStatus(code=HttpStatus.OK)
56     List<Jepp> fetchJeeps(
57         @RequestParam JeppModel model,
58         // @RequestParam(required = false) String model,
59         @RequestParam String trim
60     );
61 }
62
```

Run the application within the IDE and show the resulting OpenAPI (Swagger) documentation produced in the browser. Produce a screenshot of the documentation showing all four possible outcomes. 

Jeep Sales Service

/v2/api-docs

Servers

http://localhost:8080 - Local server. ▾

basic-jeep-sales-controller

GET /jeeps Returns a List of Jeeps

Returns a list of Jeeps , optional params model , trim

Parameters

Try it out

Name	Description
------	-------------

model required

string

(query)

The model Name

Available values : CHEROKEE, COMPASS, GLADIATOR, GRAND_CHEROKEE, RENEGADE, WRANGLER, WRANGLER_4XE

CHEROKEE ▾

trim required

string

(query)

The vehicle trim level

trim

Responses

Code	Description	Links
------	-------------	-------

200

Success, A list of Jeeps

No links

Media type

application/json ▾

Controls Accept header.

Example Value | Schema

```
{
  "modelID": 0,
  "modelID": "CHEROKEE",
  "trimLevel": "string",
  "mileCount": 0,
  "vehicleSize": 0,
  "basePrice": 0
}
```

400

Request parameters invalid

No links

Media type

application/json ▾

404

No Jeeps found with given model/trim

No links

Media type

application/json ▾

500

Error 500

No links

Media type

application/json ▾

Schemas

Jeep >

URL to GitHub Repository:

<https://github.com/david2joh/springweek1.git>