## Web API Design with Spring Boot Week 13 Coding Assignment

Points possible: 75

URL to GitHub Repository: <a href="https://github.com/ssteve1/Spring-Boot-Assignment.git">https://github.com/ssteve1/Spring-Boot-Assignment.git</a>

URL to Public Link of your Video: https://youtu.be/xmb26lCTJBU

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## **Instructions:**

1. Follow the **Coding Steps** below to complete this assignment.

- In Spring Tool Suite (STS), or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed.
- Create a new repository on GitHub for this week's assignment and push your completed code to this dedicated repo, including your entire Maven Project Directory (e.g., jeep-sales) and any additional files (e.g. .sql files) that you create. In addition, screenshot your ERD and push the screenshot to your GitHub repo.
- Include the screenshots into this Assignment Document indicated by:
- Create a video showcasing your work:
  - In this video: record and present your project verbally while showing the results of the working project.
  - <u>Easy way to Create a video</u>: Start a meeting in Zoom, share your screen, open
     Eclipse with the code and your Console window, start recording & record yourself
     describing and running the program showing the results.
  - Your video should be a maximum of 5 minutes.
  - Upload your video with a public link.
  - <u>Easy way to Create a Public Video Link</u>: Upload your video recording to YouTube with a public link.
- 2. In addition, please include the following in your Coding Assignment Document:

  - The URL for this week's GitHub repository.
  - The URL of the public link of your video.
- 3. Save the Coding Assignment Document as a .pdf and do the following:
  - Push the .pdf to the GitHub repo for this week.
  - Upload the .pdf to the LMS in your Coding Assignment Submission.

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```
② Customer.java ② Engine.java ② FuelType.java ② Option.java ② OptionType.java ② Order.java
37 class FetchJeepTest {
38
39€
       @LocalServerPort
40
       private int serverPort;
41
429
      @Autowired
43
       @Getter
45
       private TestRestTemplate restTemplate;
46
47⊖
48
       void testThatJeepsAreReturnedWhenAValidModelAndTrimAreSupplied() {
49
           //Given: a valid model, trim and URI
           JeepModel model = JeepModel.WRANGLER;
           String trim = "Sport";
           String uri = String.format("http://localhost:%d/jeeps?model=%s&trim=%s", serverPort, model,
54
           //When: a connection is made to the URI
56
           ResponseEntity<List<Jeep>> response = restTemplate.exchange(uri, HttpMethod.GET, null,
                    new ParameterizedTypeReference<>() {});
59
           // Then: a success (OK - 200) status code is returned
           assertThat(response.getStatusCode()).isEqualTo(HttpStatus.OK);
63
64
65 }
66
67
```

```
//@formatter:off
@Operation(
         summary = "Returns a list of Jeeps ",
         description = "Returns a list of Jeeps given an optional model and /or trim",
         responses = {
                 @ApiResponse(
                         responseCode = "200",
                          description = "A list of jeep is returned",
                         content = @Content(mediaType = "application/json",
                         schema = @Schema (implementation = Jeep.class ))),
                 @ApiResponse(
                         responseCode = "400",
                         description = "The request parameters are invalid)",
                         content = @Content(mediaType = "application/json")),
                 @ApiResponse(
                         responseCode = "404",
                          description = "No Jeeps were found in the input criteria",
                         content = @Content(mediaType = "application/json")),
                 @ApiResponse(
                         responseCode = "500",
description = "An unplanned error occurred",
                          content = @Content(mediaType = "application/json"))
         parameters = {
                 @Parameter(
                         name = "model",
                          allowEmptyValue = false,
                         required = false,
                         description = "The model name (i.e, 'WRANGLER')"),
                 @Parameter(
                         name = "trim",
                         allowEmptyValue = false,
                         required = false,
description = "The trim level (i.e, 'SPORT')")
```

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