Web API Design with Spring Boot Week 1 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Here's a friendly tip: as you watch the videos, code along with the videos. This will help you with the homework. When a screenshot is required, look for the icon: You will keep adding to this project throughout this part of the course. When it comes time for the final project, use this project as a starter.

Here's a hint: make sure you are running a version of Java that is 11+. To get the version, open a Windows command window or a Mac Terminal window and type java -version. If you need to upgrade, go here: https://docs.aws.amazon.com/corretto/latest/corretto-11-ug/downloads-list.html. Pick the .msi installer version (Windows) or the .pkg version (Mac).

Project Resources: https://github.com/promineotech/Spring-Boot-Course-Student-Resources

Coding Steps:

1) Create a Maven project named JeepSales as described in the video.

- a) In Spring Tool Suite, click the "File" menu. Select "New/Project...". In the popup, expand "Maven" and select "Maven Project". Click "Next".
- b) Check "Create a simple project (skip archetype selection)". Click "Next".
- c) Enter the following:

Group Id	com.promineotech
Artifact Id	jeep-sales

Click "Finish".

- 2) Navigate to the Spring Initializr (https://start.spring.io/).
 - a) Confirm the following setings:

Project	Maven Project
Language	Java
Spring Boot	Select the latest stable version (not SNAPSHOT or RC)
Group	com.promineotech
Artifact	jeep-sales
Name	jeep-sales
Description	Jeep Sales
Package name	com.promineotech
Packaging	Jar
Java	11

- b) Add the dependencies from the Initializr:
 - i) Web
 - ii) Devtools
 - iii) Lombok
- c) Click "Explore" at the bottom of the page.
- d) Click "Copy" to copy the pom.xml generated by the Initializr to the clipboard.

- 3) In Spring Tool Suite, open pom.xml (in the project root directory). Select all the text in the editor and replace it with the XML copied to the clipboard in the prior step.
- 4) Navigate to https://mvnrepository.com/. Search for springdoc-openapi-ui. Select the latest version and add the entry to the POM file in the dependencies> section.
- 5) Create a package in src/main/java named com.promineotech.jeep. In this package:
 - a) Create a Java class with a main method named JeepSales.
 - b) Add a class-level annotation: @SpringBootApplication and the import statement.
 - c) In the main() method, add a call to SpringApplication.run();. Use JeepSales.class as the first parameter, and the args parameter that was passed into the main() method as the second. The entire class should look like this:

```
package com.promineotech.jeep;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class JeepSales {
   public static void main(String[] args) {
     SpringApplication.run(JeepSales.class, args);
   }
}
```

- 6) Refer to README.docx in the supplied project resources. Copy all files in the Files folder in the resources to your project as described in the README. Do not copy the files in the Entity or Source folders at this time.
 - a) Load the files that were added: right-click on the project in Package Explorer and select "Refresh".
 - b) Update the project with the new POM dependencies: right-click on the project in Package Explorer, select "Maven/Update Project". When the "Update Maven Project" panel appears, click "OK".
- 7) Using the MySQL Workbench or MySQL command line client (CLI), create a database named "jeep".
- 8) Using dBeaver, or the MySQL client of choice, load the supplied .sql files (V1.0__Jeep_Schema.sql, and V1.1__Jeep_Data.sql) into the MySQL database to create the tables and populate them with data. These files are found in the project folder src/test/resources/flyway/migrations.
- 9) Create a new package in src/test/java named com.promineotech.jeep.controller. Create a Spring Boot integration test named FetchJeepTest using the techniques shown in the video.

- a) Add the @SpringBootTest, @ActiveProfiles, and @Sql annotations as described in the video.
- b) The class must not be public. It should have package-level access (i.e., not public, private, or protected).
- c) The video extended FetchJeepTestSupport, but you don't need to do that for the homework. Just put everything in FetchJeepTest. It should look like this:

```
@SpringBootTest(webEnvironment = WebEnvironment.RANDOM_PORT)
@ActiveProfiles("test")
@Sql(scripts = {
    "classpath:flyway/migrations/V1.0__Jeep_Schema.sql",
    "classpath:flyway/migrations/V1.1__Jeep_Data.sql"},
    config = @SqlConfig(encoding = "utf-8"))
class FetchJeepTest {
}
```

d) Create a test method in FetchJeepTest. The method must have the following method signature:

```
void testThatJeepsAreReturnedWhenAValidModelAndTrimAreSupplied()
```

e) Inject a TestRestTemplate in the test class. Name the variable restTemplate. Inject the port used in the test using the @LocalServerPort annotation. Name the variable serverPort. The variables and annotations should look like this:

```
@Autowired
private TestRestTemplate restTemplate;
@LocalServerPort
private int serverPort;
```

- 10) Create a new package in src/main/java named com.promineotech.jeep.entity. In that package, create an enum named JeepModel. Add all the jeep models from the model_id column in the models table in the database. You can use this query in dBeaver: SELECT DISTINCT model_id FROM models.
- 11) Create a Jeep class in the com.promineotech.jeep.entity package. Add the columns from the models table into this class as instance variables. Annotate the class with the Lombok annotations @Data, @Builder (and optionally both @NoArgsConstructor and @AllArgsConstructor). Note that modelId should be of type JeepModel and basePrice should be of type BigDecimal. The class should look like this (remember to add the appropriate import statements):

```
@Data
@Builder
@NoArgsConstructor
@AllArgsConstructor
public class Jeep {
   private Long modelPK;
```

```
private JeepModel modelId;
 private String trimLevel;
 private int numDoors;
 private int wheelSize;
 private BigDecimal basePrice;
}
```

- 12) In the supplied resources, copy all files in the Entities folder to the src/main/java/com/promineotech/jeep/entity folder. Do not copy anything from the Source folder at this time.
- 13) Back in the test method that you were writing, create local variables for JeepModel, trim, and uri. Set them appropriately like this:

Variable Type	Variable Name	Variable Value
JeepModel	model	JeepModel.WRANGLER
String	trim	"Sport"
String	uri	<pre>String.format("http://localhost:%d/jeeps?model=%s&trim= %s", serverPort, model, trim);</pre>

a) Send an HTTP request to the REST service that passes a JeepModel and trim level as URI parameters (as shown in the video). Use this method call:

```
ResponseEntity<List<Jeep>> response = restTemplate.exchange(uri,
      HttpMethod.GET, null, new ParameterizedTypeReference<>() {});
Make sure to use the import java.util.List and
org.springframework.http.HttpMethod.
```

b) Using AssertJ, test that the response that comes back from the server is 200 (success) – or as is shown in the video: HttpStatus.OK. The code should look like this:

```
assertThat(response.getStatusCode()).isEqualTo(HttpStatus.OK);
Use the import statements:
import static org.assertj.core.api.Assertions.assertThat;
```

c) Produce a screenshot showing the completed test class.



- 14) In src/main/java, create a new package com.promineotech.jeep.controller. In this package, create an interface named JeepSalesController.
 - a) Add the class-level annotation @RequestMapping("/jeeps").
 - b) Add the fetchJeeps method in a controller interface with the following signature:

```
List<Jeep> fetchJeeps(JeepModel model, String trim);
Make sure you use the List from java.util.List.
```

- c) Add OpenAPI documentation to document the four possible outcomes: 200 (success), 400 (bad input), 404 (not found) and 500 (unplanned error) as shown in the video.
- d) Add the parameter annotations in the OpenAPI documentation to describe the model and trim parameters.
- e) Add the @GetMapping annotation and the @ResponseStatus(code = HttpStatus.OK) annotation as method-level annotations to the fetchJeeps method.
- f) Add the @RequestParam annotations to the parameters as described in the video. The interface should look like this (omitting the OpenAPI annotations):

- g) Produce a screenshot showing the interface and OpenAPI documentation.
- 15) Add the controller implementation class named DefaultJeepSalesController. Don't forget the @RestController annotation.
- 16) 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.

Screenshots of Code:

```
☑ FetchJeepTestSup...
☑ BaseTest.java

                                                    JeepModel.java
                                                                   Jeep.java
                                                                               FetchJeepTest.java
                                                                                                jeep-sales/pom.x.
 1 package com.promineotech.jeep.controller;
3⊕ import java.util.List;[]
19
20 @RequestMapping("/jeeps")
21 //@OpenAPIDefinition(info = @Info(title = "jeep Sales Service"),
        servers = {@Server(url = "http://localhost: 8080", description = "Local server.")})
22 //
23
24 public interface JeepSalesController {
25
   // @formatter: off
26⊖ @Operation(
27
         summary = "Returns a list of Jeeps",
28
         description = "Returns a list of Jeeps given an optional model and/or trim",
29
         responses = {
30
             @ApiResponse(
                 responseCode = "200",
31
                 description = "A list of Jeeps is returned",
32
33
                 content = @Content(
34
                 mediaType = "application/json",
35
                 schema = @Schema(implementation = Jeep.class ))),
36
             @ApiResponse(
37
                 responseCode = "400",
                 description = "The request parameters are invalid",
38
                 content = @Content(mediaType = "application/json")),
39
40
             @ApiResponse(
41
                 responseCode = "404",
                 description = "No Jeeps were found with the input criteria",
43
                 content = @Content(mediaType = "application/json")),
44
             @ApiResponse(
45
                 responseCode = "500",
                 description = "An unplanned error occurred",
46
47
                 content = @Content(mediaType = "application/json"))
48
         },
49
38⊖ @Test
39
    void testThatJeepsAreReturnedWhenAvalidModelAndTrimAreSupplied() {
      //Given: a valid model, trim and URI
40
41
      JeepModel model = JeepModel. WRANGLER;
      String trim = "Sport";
42
43
      String uri = String.format("http://localhost:%d/jeeps?model=%s&trim=%s", serverPort, model, trim);
44
45
       //System.out.println(uri);
46
47
       //when: a condition is made to the URI
48
      ResponseEntity<List<Jeep>> response = restTemplate.exchange(uri,
49
          HttpMethod.GET, null, new ParameterizedTypeReference<>(){});
       //Then: a success (OK - 200) status code is returned
      assertThat(response.getStatusCode()).isEqualTo(HttpStatus.OK);
53
54
     }
56 }
57
```

```
☑ JeepModel.java

                                                                      *Jeep.java

☑ JeepSales.java

                                                                                                   M jeep-sales/pom....
  1 package com.promineotech.jeep.controller;
\stackrel{3\Theta}{=} import static org.assertj.core.api.Assertions.assertThat; \stackrel{}{=} import java.util.List;
 5 import org.junit.jupiter.api.Test;
 6 import org.springframework.beans.factory.annotation.Autowired;
  7 import org.springframework.boot.test.context.SpringBootTest;
 8 import org.springframework.boot.test.context.SpringBootTest.WebEnvironment;
 9 import org.springframework.boot.test.web.client.TestRestTemplate;
 10 import org.springframework.boot.test.web.server.LocalServerPort;
 11 import org.springframework.core.ParameterizedTypeReference;
12 import org.springframework.http.HttpMethod;
 13 import org.springframework.http.HttpStatus;
14 import org.springframework.http.ResponseEntity;
15 import org.springframework.test.context.ActiveProfiles;
16 import org.springframework.test.context.jdbc.Sql;
\underline{17} \hspace{0.1in} \textbf{import org.springframework.test.context.jdbc.SqlConfig;}
18 import com.promineotech.jeep.entity.Jeep;
19
20
    import com.promineotech.jeep.entity.JeepModel;
21
22 @SpringBootTest(webEnvironment = WebEnvironment.RANDOM PORT)
23 @ActiveProfiles("test")
24 @Sql(scripts = {
25
       "classpath:flyway/migrations/vl.0 Jeep Schema.sql",
       "classpath:flyway/migrations/V1.1 Jeep Data.sql"},
26
       config = @SqlConfig(encoding = "utf-8"))
27
28 class FetchJeepTest {//extends FetchJeepTestSupport {
290 @Autowired
30 private TestRestTemplate restTemplate;
31
32@@LocalServerPort
33 private int serverPort;
34
34
35⊖ @Test
36
    void testThatJeepsAreReturnedWhenAvalidModelAndTrimAreSupplied() {
37
       //Given: a valid model, trim and URI
       JeepModel model = JeepModel.WRANGLER;
38
39
       String trim = "Sport";
       String uri = String.format("http://localhost:%d/jeeps?model=%s&trim=%s", serverPort, model, trim);
40
41
42
       //System.out.println(uri);
43
       //When: a connection is made to the URI
44
45
46
       ResponseEntity<List<Jeep>> response =
47
          restTemplate.exchange(uri, HttpMethod.GET, null,
48
           new ParameterizedTypeReference<>() {});
49
          // HttpMethod.GET, null, new ParameterizedTypeReference<>(){});
50
51
       //Then: a success (OK - 200) status code is returned
52
       assertThat(response.getStatusCode()).isEqualTo(HttpStatus.OK);
53
54
55
56
57
58 }
59
```

```
*FetchJeepTest.java
                *Jeep.java
                                                                        1 package com.promineotech.jeep.controller.support;
 3 public class FetchJeepTestSupport extends BaseTest {
 5 }
☑ JeepSales.java
                                                                              ⋒ jeep-sa
 1 package com.promineotech.jeep.controller.support;
 3\Theta import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.boot.test.web.client.TestRestTemplate;
 5 import org.springframework.boot.test.web.server.LocalServerPort;
 6 import lombok.Getter;
 8 public class BaseTest {
 90 @LocalServerPort
 10 private int serverPort;
 11
 120 @Autowired
13 @Getter
14 private TestRestTemplate restTemplate;
15
 16⊖ protected String getBaseUri() {
   return String.format("http://localhost:%d/jeeps", serverPort);
}
 17
18
19
20 }
21
```

```
*FetchJeepTest.java
              M jeep-s
 1 package com.promineotech.jeep.entity;
 3⊖ import java.math.BigDecimal;
4 import lombok.AllArgsConstructor;
 5 import lombok.Builder;
 6 import lombok.Data;
 7 import lombok.NoArgsConstructor;
▲ 9 @Data
▲10 @Builder
11 @NoArgsConstructor
12 @AllArgsConstructor
13 public class Jeep {
14 private Long modelOK;
 15 private JeepModel modelId;
 16 private String trimLevel;
 17
    private int wheelSize;
   private BigDecimal basePrice;
18
19
20 }
21
```

```
*FetchJeepTest.java
                        *BaseTest.java

    JeepModel.java

☑ JeepSales.java ×
  1 package com.promineotech.jeep;
 3⊖ import org.springframework.boot.autoconfigure.SpringBootApplication;
 4 import org.springframework.boot.CommandLineRunner;
 5 import org.springframework.boot.SpringApplication;
 7 @SpringBootApplication
  8 public class JeepSales implements CommandLineRunner{
 9
10⊖ public static void main(String[] args) {
11
          SpringApplication.run(JeepSales.class, args);
 12
13
14
15
       }
 16
 170 @Override
18
      public void run(String... args) throws Exception {
19
         // TODO Auto-generated method stub
20
21
       }
 22
23 }
24

☑ FetchJeepTestSup...

                                               *BaseTest.java
                                                                                      *Jeep.java
                                                                                                      J JeepSales.java
                                                                                                                          M *j
*FetchJeepTest.java
                                                                  JeepModel.java
   1 <?xml version="1.0" encoding="UTF-8"?>
1/10 1 20 2 2 2 2 2 3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 3 2 3 2 3 2 3 3 4 3 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 4 3 4 5 4 5 5 5 5 6 5 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 <
  3 XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://
  4 maven.apache.org/xsd/maven-4.0.0.xsd">
        <modelVersion>4.0.0</modelVersion>
   6⊖ <parent>
          <groupId>org.springframework.boot</groupId>
          <artifactId>spring-boot-starter-parent</artifactId>
   9
          <version>2.7.3
  10
          <relativePath /> <!-- lookup parent from repository -->
  11
       </parent>
  12
       <groupId>com.promineotech</groupId>
  13
       <artifactId>jeep-sales</artifactId>
        <version>0.0.1-SNAPSHOT</version>
  14
  15
        <name>jeep-sales</name>
  16
        <description>jeepsales</description>
 17⊖ <properties>
          <java.version>17</java.version>
  18
  19
       </properties>
  200 <dependencies>
  210
          <dependency>
  22
            <groupId>org.springframework.boot</groupId>
  23
             <artifactId>spring-boot-starter-web</artifactId>
  24
         </dependency>
  25
  269
          <dependency>
  27
            <groupId>org.springframework.boot</groupId>
  28
             <artifactId>spring-boot-devtools</artifactId>
  29
             <scope>runtime</scope>
             <optional>true</optional>
  30
  31
          </dependency>
  329
          <dependency>
```

```
33
         <groupId>org.projectlombok</groupId>
 34
         <artifactId>lombok</artifactId>
 35
         <optional>true</optional>
 36
       </dependency>
379
     <dependency>
        <groupId>org.springframework.boot</groupId>
 38
 39
        <artifactId>spring-boot-starter-test</artifactId>
 40
         <scope>test</scope>
 41
      </dependency>
 42
 43
       <!-- OpenAPI dependency==
 44
 450
     <dependency>
 46
         <groupId>org.springdoc</groupId>
 47
         <artifactId>springdoc-openapi-ui</artifactId>
 48
         <version>1.6.11
 49
      </dependency>
 50
 51
52
       <!-- https://mwnrepository.com/artifact/org.springdoc/springdoc-openapi-ui -->
 53
254⊖
       <dependency>
 55
         <groupId>org.springdoc</groupId>
 56
        <artifactId>springdoc-openapi-ui</artifactId>
 57
         <version>1.6.11
 58
      </dependency>
 59
 60
     </dependencies>
61
```

```
61
 62⊖ <build>
 63⊖
       <plugins>
 649
         <plugin>
 65
           <groupId>org.springframework.boot</groupId>
 66
           <artifactId>spring-boot-maven-plugin</artifactId>
 67⊖
           <configuration>
 689
             <excludes>
 69⊖
               <exclude>
 70
                 <groupId>org.projectlombok</groupId>
 71
                 <artifactId>lombok</artifactId>
 72
                </exclude>
 73
              </excludes>
 74
           </configuration>
 7.5
         </plugin>
 76
       </plugins>
 77 </build>
 78
 79 </project>
```

```
☑ *BaseTest.java ☑ JeepModel.java ☑ *Jeep.java
*FetchJeepTest.java
                  FetchJeepTestSup...
                                                                                  JeepSales.java
 1 package com.promineotech.jeep.controller;
 30 import java.util.List;
 4 import org.springframework.http.HttpStatus;
 5 import org.springframework.web.bind.annotation.GetMapping;
 6 import org.springframework.web.bind.annotation.RequestMapping;
 7 import org.springframework.web.bind.annotation.RequestParam;
 8 import org.springframework.web.bind.annotation.ResponseStatus;
 9 import com.promineotech.jeep.entity.Jeep;
 10 import com.promineotech.jeep.entity.JeepModel;
 11 import io.swagger.v3.oas.annotations.Operation;
 12 import io.swagger.v3.oas.annotations.Parameter;
13 import io.swagger.v3.oas.annotations.media.Content;
14 import io.swagger.v3.oas.annotations.media.Schema;
15 import io.swagger.v3.oas.annotations.responses.ApiResponse;
16
17 @RequestMapping("/jeeps")
 18 //@OpenAPIDefinition(info = @Info(title = "jeep Sales Service"),
         servers = {@Server(url = "http://localhost: 8080", description = "Local server.")})
 20
 21 public interface JeepSalesController {
 22 // @formatter: off
 230 @Operation(
         summary = "Returns a list of Jeeps",
 24
 25
          description = "Returns a list of Jeeps given an optional model and/or trim",
 26
         responses = {
             @ApiResponse(
 28
                 responseCode = "200",
 29
                  description = "A list of Jeeps is returned",
 30
                  content = @Content(
 31
                 mediaType = "application/json",
32
                  schema = @Schema(implementation = Jeep.class ))),
 33
              @ApiResponse(
34
                 responseCode = "400",
```

```
35
                 description = "The request parameters are invalid",
36
                 content = @Content(mediaType = "application/json")),
37
             @ApiResponse(
38
                 responseCode = "404",
                 description = "No Jeeps were found with the input criteria",
39
40
                 content = @Content(mediaType = "application/json")),
41
             @ApiResponse(
                 responseCode = "500",
42
43
                 description = "An unplanned error occurred",
                 content = @Content(mediaType = "application/json"))
44
45
        },
46
47
        parameters = {
48
49
             @Parameter(
50
                name = "model",
51
                 allowEmptyValue = false,
52
                required = false,
53
                 description = "The model name (i.e., 'Wrangler')"),
54
55
             @Parameter(
56
                 name = "trim",
57
                 allowEmptyValue = false,
58
                required = false, description = "The trim level (i.e., 'sport')")})
59
60
61
62
     @GetMapping
63
    @ResponseStatus(code = HttpStatus.OK)
64 List<Jeep> fetchJeeps(
65
         @RequestParam JeepModel model,
66
         @RequestParam String trim);
67
     // @formatter: on
```

Screenshots of Running Application:

```
a ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q 🔡 🐉

| Pethicspirat.java | Dethicspirat.java | Dethicspirat.java | Despiratel.java | Des
                                    ☐ Errors: 1 ☐ Failures: 0
                                                                                                                                  | @SpringBootApplication
| public class JeepSales implements CommandLineRunner{
                                                                                                                                        @Override
public void run(String... args) throws Exception {
// word luto-generated method stub
    Failure face

'engaging/anework.web.client.RestClientS.ception: Error while extracting respons
bleException: SON parse error. Cannot describite value of type jiw.sucikl.Arroy.tist.
ennot describite.value of type jiw.sucikl.Arroy.tist.com.pormientech.ipse.gran.entit.vie
at [Source: [org.apringframework.ubl.Stream.Wild.SNon/ClosingipsquStream); line 1.

at [Source: [org.apringframework.ubl.Stream.Wild.SNon/ClosingipsquStream]; line 1.

at [Source: 
  Soot Deahloard X

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                                                                                                                                                                                                                                                                                                                              : Starting DeepSales using Java 17.0.4.1 on LATTOF-FFCOP4H with FID 10804 (C. 18) active profile set, falling back to 1 default profile: "default" set : Devrools property default active! Set : Paping.devrools.ad-propertie! to 'Des : For additional web related logging consider setting the "logging.level.web' i Tomost Intulliates wite prof(s): 800 (http)

1 Starting Service regime: (Apache Tomost/9.0.68) : Intitalizing pring embedded WebhapileasinoContext Intitalizing Service regime: (Apache Tomost/9.0.68) : Intitalizing Service regime: (Apache Tomostation Company (Apache Tomostation
   BaseTest.java
                                                                                                                                                                                                                                                                  J Jeep.java
                                                                                                                                                                                                                                                                                                                                                                                                             J JeepSales.java
           1 package com.promineotech.jeep.controller;
           30 import static org.assertj.core.api.Assertions.assertThat;
 🔈 5 import static org.junit.jupiter.api.Assertions.*;
           6 import java.util.List;
          7 import org.junit.jupiter.api.Test;
          8 import org.springframework.beans.factory.annotation.Autowired;
          9 import org.springframework.boot.test.context.SpringBootTest;
       10 import org.springframework.boot.test.context.SpringBootTest.WebEnvironment;
       11 import org.springframework.boot.test.web.client.TestRestTemplate;
       12 import org.springframework.boot.test.web.server.LocalServerPort;
      13 import org.springframework.core.ParameterizedTypeReference;
     14 import org.springframework.http.HttpStatus;
    15 import org.springframework.http.ResponseEntity;
     16 import org.springframework.test.context.ActiveProfiles;
      17 import org.springframework.test.context.jdbc.Sql;
      18 import org.springframework.test.context.jdbc.SqlConfig;
 import com.promineotech.jeep.controller.support.FetchJeepTestSupport;
     20 import com.promineotech.jeep.entity.Jeep;
      21 import com.promineotech.jeep.entity.JeepModel;
     22 import org.springframework.http.HttpMethod;
23 import static org.assertj.core.api.Assertions.assertThat;
      24
       25 @SpringBootTest(webEnvironment = WebEnvironment.RANDOM PORT)
       26 @ActiveProfiles("test")
       27 @Sql/scripts = {
       28
                                          "classpath:flyway/migrations/vl.0 Jeep Schema.sql",
       29
                                         "classpath:flyway/migrations/V1.1 Jeep Data.sql"},
       30
                                       config = @SqlConfig(encoding = "utf-8"))
      31 class FetchJeepTest{ //extends FetchJeepTestSupport
      32@@Autowired
      33 private TestRestTemplate restTemplate;
     35@@LocalServerPort
      36 private int serverPort:
37
```

URL to GitHub Repository:

https://github.com/bmason1969/Week-13.git