

Web API Design with Spring Boot Week 16 Coding Assignment


Points possible: 75

URL to GitHub Repository: <https://github.com/sraznoff/JeepSalesAPI>


URL to Public Link of your Video: <https://youtu.be/9L27THdfyCY>

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.
- Use your existing repo or create a new repository on GitHub for this week's assignment and push your completed code to the 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.
 - Easy way to Create a video: 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.
 - Easy way to Create a Public Video Link: Upload your video recording to YouTube with a public link.


2. In addition, please include the following in your Coding Assignment Document:

- The requested screenshots, indicated by: 
- 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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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.

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

Coding Steps:

For this week's homework you need to copy source code from the supplied resources.

For this week's homework you need to copy source code from the Source folder in the supplied resources. Wait until the instructions tell you to copy the resources or you will get errors.

- 1) Select some options for a Jeep order:
 - a) Use the `data.sql` file or the jeep database tables to select options for a Jeep order. Select any one of each of the following for the order:
 - i) color
 - ii) customer
 - iii) engine
 - iv) model
 - v) tire(s)
 - b) Select one or more options from the options table as well. Keep in mind that some options may work better than others – but if you want to put 37-inch tires on your Jeep Renegade, so be it!
- 2) Create a new integration test class to test a Jeep order named `CreateOrderTest.java`. Create this class in `src/test/java` in the `com.promineotech.jeep.controller` package.
 - a) Add the Spring Boot Test annotations: `@SpringBootTest`, `@ActiveProfiles`, and `@Sql`. They should have the same parameters as the test created in weeks 1 and 2.
 - b) Create a test method (annotated with `@Test`) named `testCreateOrderReturnsSuccess201`.

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- c) In the test class, create a method named `createOrderBody`. This method returns a type of `String`. In this method, return a JSON object with the IDs that you picked in Step 1a and 1b. For example:

```
{
  "customer": "MORISON_LINA",
  "model": "WRANGLER",
  "trim": "Sport Altitude",
  "doors": 4,
  "color": "EXT_NACHO",
  "engine": "2_0_TURBO",
  "tire": "35_TOYO",
  "options": [
    "DOOR_QUAD_4",
    "EXT_AEV_LIFT",
    "EXT_WARN_WINCH",
    "EXT_WARN BUMPER_FRONT",
    "EXT_WARN BUMPER_REAR",
    "EXT_ARB_COMPRESSOR"
  ]
}
```

Make sure that the JSON is correct! If necessary, use a JSON formatter/validator like the one here: <https://jsonformatter.curiousconcept.com/>.

Produce a screenshot of the `createOrderBody()` method. 🖥️

```
protected String createOrderBody() {
    // @formatter:off
    return "{\n"
        + "  \"customer\": \"VAN_ALTENA_AGNI\", \n"
        + "  \"model\": \"WRANGLER\", \n"
        + "  \"trim\": \"Willys Sport\", \n"
        + "  \"doors\": 4, \n"
        + "  \"color\": \"EXT_NACHO\", \n"
        + "  \"engine\": \"2_0_TURBO\", \n"
        + "  \"tire\": \"35_TOYO\", \n"
        + "  \"options\": [\n"
        + "    \"DOOR_QUAD_4\", \n"
        + "    \"EXT_AEV_LIFT\", \n"
        + "    \"EXT_WARN_WINCH\", \n"
        + "    \"EXT_WARN BUMPER_FRONT\", \n"
        + "    \"EXT_WARN BUMPER_REAR\", \n"
        + "    \"EXT_ARB_COMPRESSOR\", \n"
        + "  ] \n"
        + "}";
    // @formatter:on
}
```

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In the test method, assign the return value of the `createOrderBody()` method to a variable named `body`.

- d) In the test class, add an instance variable named `serverPort` to hold the port that Tomcat is listening on in the test. Annotate the variable with `@LocalServerPort`.

- e) Add another instance variable for an injected `TestRestTemplate` named `restTemplate`.

- f) In the test method, assign a value to a local variable named `uri` as follows:

```
String uri = String.format("http://localhost:%d/orders", serverPort);
```

- g) In the test method, create an `HttpHeaders` object and set the content type to "application/json" like this:

```
HttpHeaders headers = new HttpHeaders();  
headers.setContentType(MediaType.APPLICATION_JSON);
```

Make sure to import the package `org.springframework.http.HttpHeaders`.

- h) Create an `HttpEntity` object and set the request body and headers:

```
HttpEntity<String> bodyEntity = new HttpEntity<>(body, headers);
```

- i) Send the request body and headers to the server. The `Order` class should have been copied earlier from the supplied resources. Ensure that you import `com.promineotech.jeepp.entity.Order` and not some other `Order` class.

```
ResponseEntity<Order> response = restTemplate.exchange(uri,  
    HttpMethod.POST, bodyEntity, Order.class);
```

- j) Add the AssertJ assertions to ensure that the response is correct. Replace the expected values to match the JSON in step 2c.

```
assertThat(response.getStatusCode()).isEqualTo(HttpStatus.CREATED);  
assertThat(response.getBody()).isNotNull();
```

```
Order order = response.getBody();  
  
assertThat(order.getCustomer().getCustomerId()).isEqualTo("MORISON_LINA");  
  
assertThat(order.getModel().getModelId()).isEqualTo(JeepModel.WRANGLER);  
;  
  
assertThat(order.getModel().getTrimLevel()).isEqualTo("Sport Altitude");
```

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```
assertThat(order.getModel().getNumDoors()).isEqualTo(4);

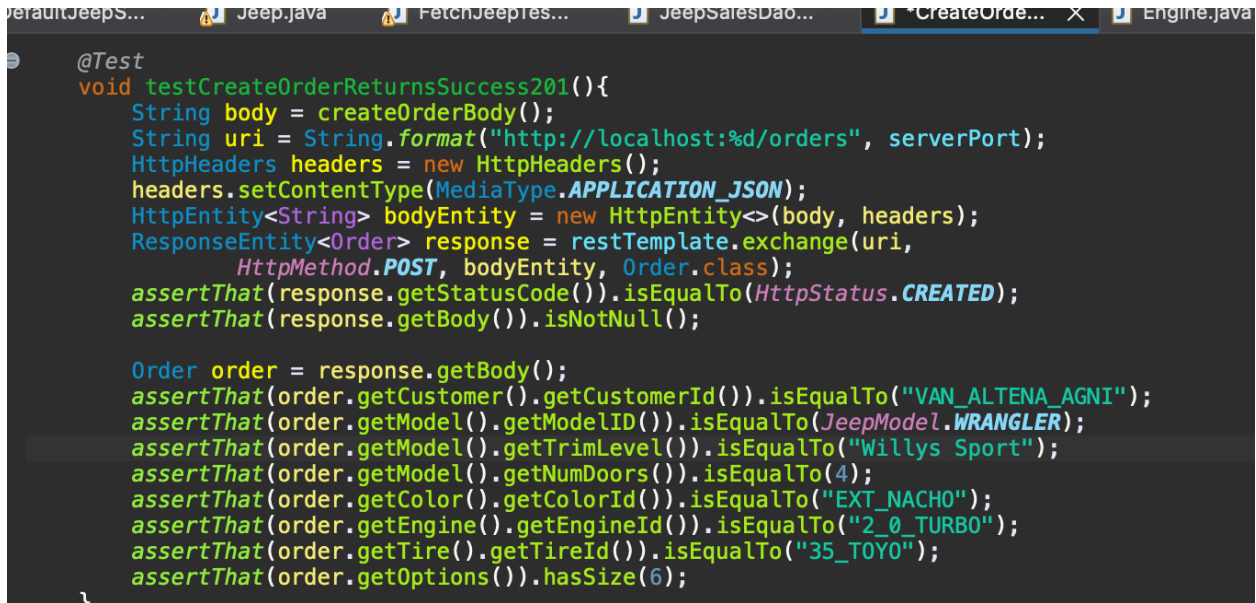
assertThat(order.getColor().getColorId()).isEqualTo("EXT_NACHO");

assertThat(order.getEngine().getEngineId()).isEqualTo("2_0_TURBO");

assertThat(order.getTire().getTireId()).isEqualTo("35_TOYO");

assertThat(order.getOptions()).hasSize(6);
```


k) Produce a screenshot of the test method. 



```
@Test
void testCreateOrderReturnsSuccess201(){
    String body = createOrderBody();
    String uri = String.format("http://localhost:%d/orders", serverPort);
    HttpHeaders headers = new HttpHeaders();
    headers.setContentType(MediaType.APPLICATION_JSON);
    HttpEntity<String> bodyEntity = new HttpEntity<>(body, headers);
    ResponseEntity<Order> response = restTemplate.exchange(uri,
        HttpMethod.POST, bodyEntity, Order.class);
    assertThat(response.getStatusCode()).isEqualTo(HttpStatus.CREATED);
    assertThat(response.getBody()).isNotNull();

    Order order = response.getBody();
    assertThat(order.getCustomer().getCustomerId()).isEqualTo("VAN_ALTENA_AGNI");
    assertThat(order.getModel().getModelID()).isEqualTo(JeepModel.WRANGLER);
    assertThat(order.getModel().getTrimLevel()).isEqualTo("Willys Sport");
    assertThat(order.getModel().getNumDoors()).isEqualTo(4);
    assertThat(order.getColor().getColorId()).isEqualTo("EXT_NACHO");
    assertThat(order.getEngine().getEngineId()).isEqualTo("2_0_TURBO");
    assertThat(order.getTire().getTireId()).isEqualTo("35_TOYO");
    assertThat(order.getOptions()).hasSize(6);
}
```

l)

- 3) In the controller sub-package in src/main/java, create an interface named JeepOrderController. Add @RequestMapping("/orders") as a class-level annotation.
- a) Create a method in the interface to create an order (createOrder). It should return an object of type Order (see below). It should accept a single parameter of type OrderRequest as described in the video. Make sure it accepts an HTTP POST request and returns a status code of 201 (created).
 - b) Add the @RequestBody annotation to the orderRequest parameter. Make sure to add the RequestBody annotation from the org.springframework.web.bind.annotation package.
 - c) Produce a screenshot of the finished JeepOrderController interface showing no compile errors. 

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```
Jeep.java  FetchJeepTes...  *CreateOrde...  Engine.java  *JeepOrderCo...  X  J

1 package com.promineotech.jeep.controller;
2
3 import org.springframework.web.bind.annotation.RequestBody;
4 import org.springframework.web.bind.annotation.RequestMapping;
5
6 import com.promineotech.jeep.entity.Order;
7 import com.promineotech.jeep.entity.OrderRequest;
8
9 @RequestMapping("/orders")
10 public interface JeepOrderController {
11
12     public Order returnOrder(@RequestBody OrderRequest orderRequest);
13 }
14
```

d)

4) Create a class that implements JeepOrderController named DefaultJeepOrderController.

- a) Add @RestController as a class-level annotation.
- b) Add a log line to the implementing controller method showing the input request body (orderRequest)
- c) Run the test to show a red status bar. Produce a screenshot that shows the test method, the log line, and the red JUnit status bar.

The screenshot shows an IDE with the following components:

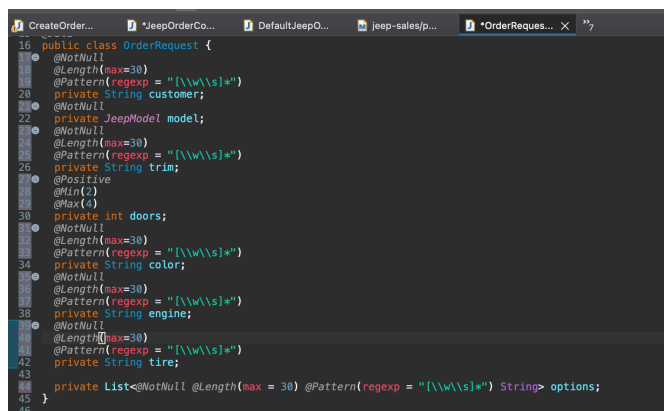
- JUnit Test Results:** A red status bar indicates a failure. The test `testCreateOrderReturnsSuccess201()` failed with an `AssertionFailedError`. The failure trace shows the error occurred in `org.opentest4j.AssertionFailedError` at `expected: 201 CREATED` but was `200 OK`.
- Test Code:** The test method `testCreateOrderReturnsSuccess201()` is shown, which sends a POST request to `/orders` with a JSON body and asserts that the status code is `201 CREATED` and the response body is `WRANGLER`.
- Console Output:** The console shows the application starting successfully on port 52117. The test `CreateOrderTest` is running, and the output shows the response body is `WRANGLER`, which does not match the expected `WRANGLER` (the test code has a typo in the assertion).

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- 5) Find the Maven dependency `spring-boot-starter-validation` by looking it up at <https://mvnrepository.com/>. Add this repository to the project POM file (`pom.xml`).
- 6) Add the class-level annotation `@Validated` to the `JeepOrderController` interface.
- 7) Add Bean Validation annotations to the `OrderRequest` class as shown in the video.
 - a) Use these annotations for String types:
 - i) `@NotNull`
 - ii) `@Length(max = 30)`
 - iii) `@Pattern(regex = "[\\w\\s]*")`
 - b) Use these annotations for integer types:
 - i) `@Positive`
 - ii) `@Min(2)`
 - iii) `@Max(4)`
 - c) Add `@NotNull` to the enum type.
 - d) Add validation to the list element (type String) by adding the validation annotations *inside* the generic definition. So, to add the String validation to the options, you would do this:

```
private List<@NotNull @Length(max = 30) @Pattern(regex = "[\\w\\s]*") String> options;
```

Do not apply a `@NotNull` annotation to the `List` because if you have no options the `List` may be null.
 - e) Produce a screenshot of this class with the annotations. 🖥️



```
16 public class OrderRequest {
17     @NotNull
18     @Length(max=30)
19     @Pattern(regex = "[\\w\\s]*")
20     private String customer;
21     @NotNull
22     private JeepModel model;
23     @NotNull
24     @Length(max=30)
25     @Pattern(regex = "[\\w\\s]*")
26     private String trim;
27     @Positive
28     @Min(2)
29     @Max(4)
30     private int doors;
31     @NotNull
32     @Length(max=30)
33     @Pattern(regex = "[\\w\\s]*")
34     private String color;
35     @NotNull
36     @Length(max=30)
37     @Pattern(regex = "[\\w\\s]*")
38     private String engine;
39     @NotNull
40     @Length(max=30)
41     @Pattern(regex = "[\\w\\s]*")
42     private String tire;
43     private List<@NotNull @Length(max = 30) @Pattern(regex = "[\\w\\s]*") String> options;
44 }
45
46
```

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f)

- 8) In the `jeep.service` sub-package, create the empty (no methods yet) order service interface (named `JeepOrderService`) and implementation (named `DefaultJeepOrderService`).

- a) Inject the interface into the order controller implementation class.
- b) Add the `@Service` annotation to the service implementation class.
- c) Create the `createOrder` method in the interface and implementing service. The method signature should look like this:

```
Order createOrder(OrderRequest orderRequest);
```

- d) Call the `createOrder` method from the controller and return the value returned by the service.
- e) Add a log line in the `createOrder` method and log the `orderRequest` parameter.
- f) Run the test `CreateOrderTest` again. Produce a screenshot showing that the service layer `createOrder` method correctly prints the log line in the console. (e.g. prints out the `OrderRequest` in the console from within the Service Layer).

The screenshot shows an IDE with the following components:

- Source Editor:** Displays the `DefaultJeepOrderService` class in the `com.promineotech.jeep.service` package. It implements the `JeepOrderService` interface. The `createOrder` method is implemented as follows:

```
1 package com.promineotech.jeep.service;
2
3 import org.springframework.stereotype.Service;
4
5 import com.promineotech.jeep.entity.Order;
6 import com.promineotech.jeep.entity.OrderRequest;
7
8 import lombok.extern.slf4j.Slf4j;
9
10 @Service
11 @Slf4j
12 public class DefaultJeepOrderService implements JeepOrderService {
13
14     @Override
15     public Order createOrder(OrderRequest orderRequest) {
16
17     }
```
- JUnit Test Results:** Shows a successful test run for `CreateOrderTest` with a duration of 0.468 seconds.
- Console:** Displays the output of the test execution, showing the initialization of the Spring application context and the execution of the `createOrder` method. The log output includes:

```
<terminated> CreateOrderTest [JUnit] /Library/Java/JavaVirtualMachines/jdk-11.0.16.jdk/Contents/Home/bin/java (Jan 14, 2023, 5:41:44 PM - 5:41:45 PM)
org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.69]
o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
v.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 850 ms
com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 55219 (http) with context path ''
o.p.jeep.controller.CreateOrderTest : Started CreateOrderTest in 2.303 seconds (JVM running for 2.94 s)
o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
o.p.j.c.DefaultJeepOrderController : Order: OrderRequest(customer=VAN_ALTENA_AGNI, model=WRANGLER,
o.p.j.service.DefaultJeepOrderService : Service: OrderRequest(customer=VAN_ALTENA_AGNI, model=WRANGLER,
com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
```


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- 9) In the `jeep.dao` sub-package, create the empty (no methods yet) DAO interface (named `JeepOrderDao`) and implementation (named `DefaultJeepOrderDao`).
 - a) Inject the DAO interface into the order service implementation class.
 - b) Add the `@Component` annotation to the DAO implementation class.
- 10) Replace the entire content of `JeepOrderDao.java` with the source found in `JeepOrderDao.source`. The source file is found in the Source folder of the supplied project resources.

11) * The next steps require you to copy source code from the Source directory in the supplied resources. Please follow the instructions EXACTLY. Some steps require you to replace ALL the source in a file. Some steps require you to ADD source to a file.**

- 12) Copy the *contents* of the file `DefaultJeepOrderDao.source` into `DefaultJeepOrderDao.java`. The source file is found in the Source folder of the supplied project resources.

In Eclipse, click the "Source" menu and select "Organize Imports". Pick packages from your project where applicable. Make sure you pick the import `java.util.Optional`, `java.util.List`, and `org.springframework.jdbc.core.RowMapper`.

- 13) Copy the *contents* of the file `DefaultJeepOrderService.source` into `DefaultJeepOrderService.java`. Add the source after the `createOrder()` method, but *inside* the class body. The source file is found in the source folder of the supplied project resources.

In Eclipse, click the "Source" menu and select "Organize Imports". Pick packages from your project where applicable.


- 14) In `DefaultJeepOrderService.java`, work with the method `createOrder`.
 - a) Add the `@Transactional` annotation to the `createOrder` method.
 - b) In the `createOrder` method call the copied methods: `getCustomer`, `getModel`, `getColor`, `getEngine`, `getTire` and `getOption`, assigning the return values of these methods to variables of the appropriate types.

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- c) Calculate the price, including all options.

15) In `JeepOrderDao.java` and `DefaultJeepOrderDao.java`, add the method:

```
Order saveOrder(Customer customer, Jeep jeep, Color color, Engine engine, Tire tire, BigDecimal price, List<Option> options);
```

- a) Call the `jeepOrder.Dao.saveOrder` method from the `jeepOrderSalesService.createOrder` service. Produce a screenshot of the `jeepOrderSalesService.createOrder` method. 

```
9
10 @Override
11 @Transactional
12 public Order createOrder(OrderRequest orderRequest) {
13
14     log.info("Service: {}", orderRequest);
15     Customer customer = getCustomer(orderRequest);
16     Jeep model = getModel(orderRequest);
17     Color color = getColor(orderRequest);
18     Engine engine = getEngine(orderRequest);
19     Tire tire = getTire(orderRequest);
20     List<Option> option = getOption(orderRequest);
21     BigDecimal price = model.getBasePrice();
22     for (Option o : option) {
23         price.add(o.getPrice());
24     };
25     jeepOrderDao.saveOrder(customer, model, color, engine, tire, price, option);
26     return null;
27 }
28
29 /**
30  *
31  * @param orderRequest
32  * @return
33  */
```

- b) Write the implementation of the `saveOrder` method in the DAO.

- i) Call the supplied `generateInsertSql` method, passing in the customer, jeep, color, engine, tire and price. Assign the return value of the method to a `SqlParams` object.

- ii) Call the `update` method on the `NamedParameterJdbcTemplate` object, passing in a `keyHolder` object as shown in the video. Create the `keyHolder` like this:

```
KeyHolder keyHolder = new GeneratedKeyHolder();
```

Be sure to extract the order primary key from the `keyHolder` object into a variable of type `Long` named `orderPK`.


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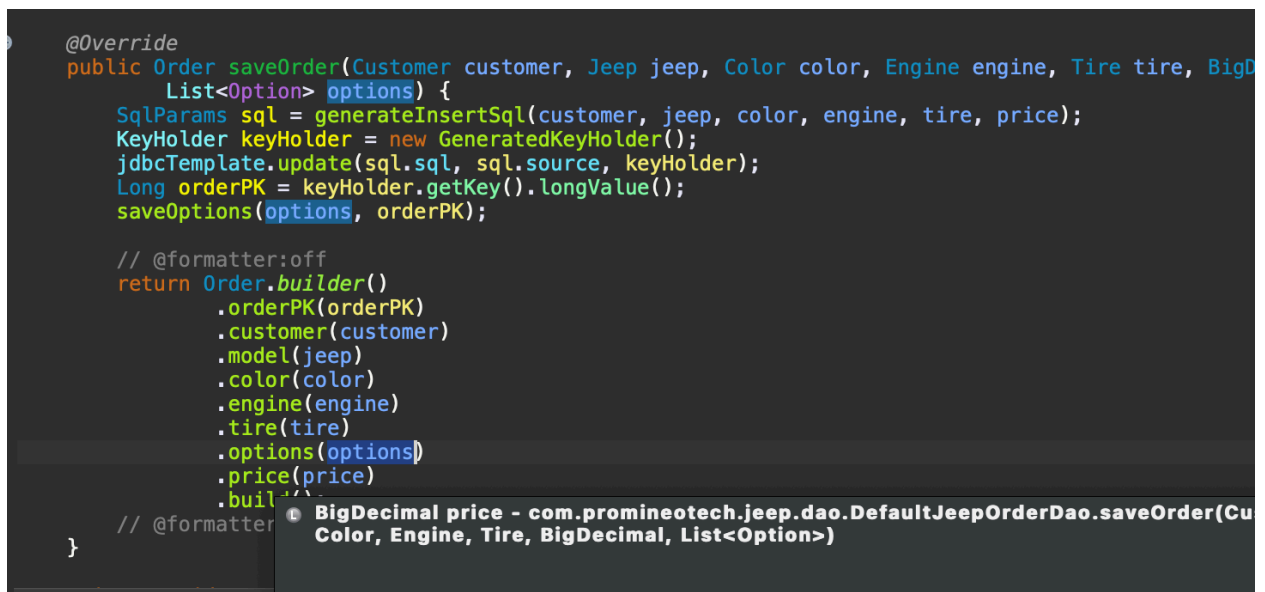
- iii) Write a method named `saveOptions` as shown in the video. This method should have the following method signature:

```
private void saveOptions(List<Option> options, Long orderPK)
```

For each option in the `options` list, call the supplied `generateInsertSql` method passing the parameters `option` and order primary key (`orderPK`). Call the `update` method on the `NamedParameterJdbcTemplate` object.

- iv) In the `saveOrder` method in the DAO implementation, return an order object using the `Order.builder`. The order should include `orderPK`, `customer`, `jeep (model)`, `color`, `engine`, `tire`, `options` and `price`.

- v) Produce a screenshot of the `saveOrder` method. 




```
@Override
public Order saveOrder(Customer customer, Jeep jeep, Color color, Engine engine, Tire tire, BigDecimal price,
    List<Option> options) {
    SqlParams sql = generateInsertSql(customer, jeep, color, engine, tire, price);
    KeyHolder keyHolder = new GeneratedKeyHolder();
    jdbcTemplate.update(sql.sql, sql.source, keyHolder);
    Long orderPK = keyHolder.getKey().longValue();
    saveOptions(options, orderPK);

    // @formatter:off
    return Order.builder()
        .orderPK(orderPK)
        .customer(customer)
        .model(jeep)
        .color(color)
        .engine(engine)
        .tire(tire)
        .options(options)
        .price(price)
        .build();
    // @formatter:on
}
```

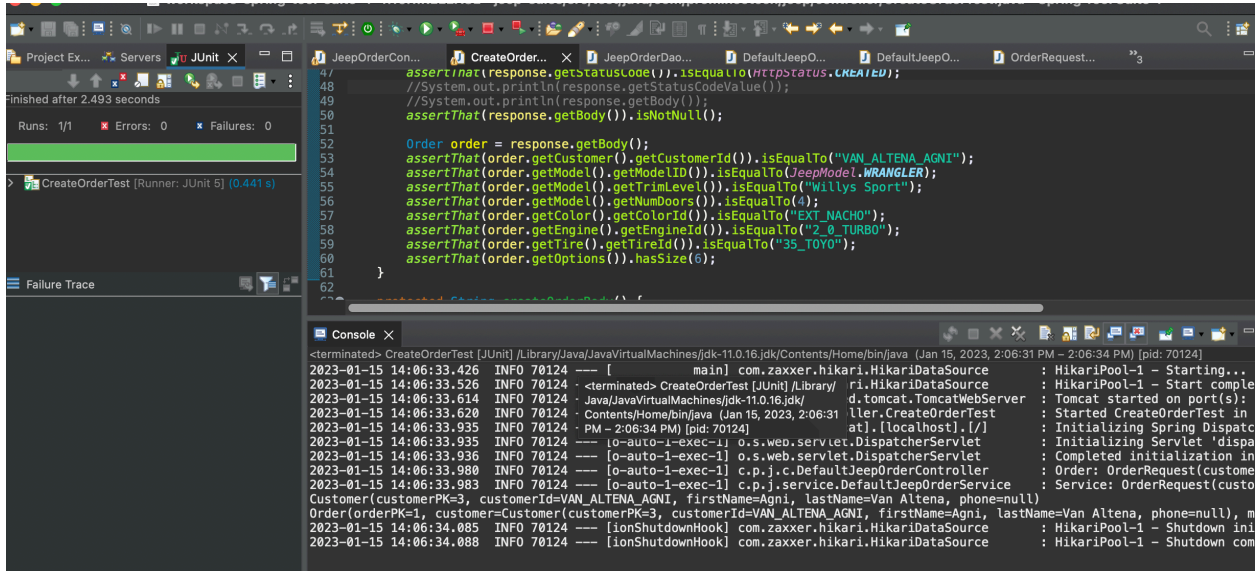
**BigDecimal price - com.promineotech.jeep.dao.DefaultJeepOrderDao.saveOrder(Cu
Color, Engine, Tire, BigDecimal, List<Option>)**

- vi)

- c) Run the integration test in `CreateOrderTest`. Produce a screenshot of the test method that shows the green JUnit status bar, the console output, and the test class. 

- d)

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The screenshot displays an IDE with a Java test class `CreateOrderTest` and its execution results. The test class is located in the `JeepOrderCon...` package and contains the following code:

```
47: //System.out.println(response.getStatusCodeValue());
48: //System.out.println(response.getBody());
49: //System.out.println(response.getBody());
50: //System.out.println(response.getBody());
51: //System.out.println(response.getBody());
52:
53: Order order = response.getBody();
54: assertEquals("VAN_ALTENA_AGNI", order.getCustomerId());
55: assertEquals("WRANGLER", order.getModelID());
56: assertEquals("Willys Sport", order.getModel().getTrimLevel());
57: assertEquals(4, order.getModel().getNumDoors());
58: assertEquals("EXT_NACHO", order.getColor().getColorId());
59: assertEquals("2_0_TURBO", order.getEngine().getEngineId());
60: assertEquals("35_T0Y0", order.getTire().getTireId());
61: assertEquals(6, order.getOptions().getSize());
62: }
```

The console output shows the test results and the application's startup logs. The test results are as follows:

```
<terminated> CreateOrderTest [JUnit] /Library/Java/JavaVirtualMachines/jdk-11.0.16.jdk/Contents/Home/bin/java (Jan 15, 2023, 2:06:34 PM) [pid: 70124]
2023-01-15 14:06:33.426 INFO 70124 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-01-15 14:06:33.526 INFO 70124 -<terminated> CreateOrderTest [JUnit] /Library : HikariPool-1 - Start comple
2023-01-15 14:06:33.614 INFO 70124 -Java/JavaVirtualMachines/jdk-11.0.16.jdk : d.tomcat.TomcatWebServer : Tomcat started on port(s):
2023-01-15 14:06:33.620 INFO 70124 -Contents/Home/bin/java (Jan 15, 2023, 2:06:31 : ller.CreateOrderTest : Started CreateOrderTest in
2023-01-15 14:06:33.620 INFO 70124 -PM - 2:06:34 PM) [pid: 70124] : at].[localhost].[/] : Initializing Spring Dispatc
2023-01-15 14:06:33.620 INFO 70124 -[o-auto-1-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispa
2023-01-15 14:06:33.620 INFO 70124 -[o-auto-1-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in
2023-01-15 14:06:33.620 INFO 70124 -[o-auto-1-exec-1] c.p.j.c.DefaultJeepOrderController : Order: OrderRequest(custome
2023-01-15 14:06:33.620 INFO 70124 -[o-auto-1-exec-1] c.p.j.service.DefaultJeepOrderService : Service: OrderRequest(custo
2023-01-15 14:06:33.620 INFO 70124 -Customer(customerPK=3, customerId=VAN_ALTENA_AGNI, firstName=Agni, lastName=Van Altana, phone=null)
2023-01-15 14:06:33.620 INFO 70124 -Order(orderPK=1, customer=Customer(customerPK=3, customerId=VAN_ALTENA_AGNI, firstName=Agni, lastName=Van Altana, phone=null), m
2023-01-15 14:06:34.085 INFO 70124 -[ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown ini
2023-01-15 14:06:34.088 INFO 70124 -[ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown com
```