


Web API Design with Spring Boot Week 4 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.

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.

- Select some options for a Jeep order:
 - 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:
 - color
 - customer
 - engine
 - model
 - tire(s)
 - 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!
- 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.
 - 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.
 - Create a test method (annotated with `@Test`) named `testCreateOrderReturnsSuccess201`.
 - 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 b. 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. 

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

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

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

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

- 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`.

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

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

- 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");
```



```
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);
```


- Produce a screenshot of the test method. 
- In the controller sub-package in src/main/java, create an interface named JeepOrderController. Add @RequestMapping("/orders") as a class-level annotation.
- 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).
- Add the @RequestBody annotation to the orderRequest parameter. Make sure to add the RequestBody annotation from the org.springframework.web.bind.annotation package.
- Produce a screenshot of the finished JeepOrderController interface showing no compile errors. 
- Create a class that implements JeepOrderController named DefaultJeepOrderController.

- Add `@RestController` as a class-level annotation.
- Add a log line to the implementing controller method showing the input request body (`orderRequest`)
- 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. 
- 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`).
- Add the class-level annotation `@Validated` to the `JeepOrderController` interface.
- Add Bean Validation annotations to the `OrderRequest` class as shown in the video.
 - Use these annotations for String types:
 - `@NotNull`
 - `@Length(max = 30)`
 - `@Pattern(regexp = "[\\w\\s]*")`
 - Use these annotations for integer types:
 - `@Positive`
 - `@Min(2)`
 - `@Max(4)`
- Add `@NotNull` to the enum type.
- 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(regexp = "[\\w\\s]*")
String> options;
```

Do not apply a `@NotNull` annotation to the `List` because if you have no options the `List` may be null.
- Produce a screenshot of this class with the annotations. 
- In the `jeep.service` sub-package, create the empty (no methods yet) order service interface (named `JeepOrderService`) and implementation (named `DefaultJeepOrderService`).

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


```
Order createOrder(OrderRequest orderRequest);
```
 - Call the `createOrder` method from the controller and return the value returned by the service.
 - Add a log line in the `createOrder` method and log the `orderRequest` parameter.
 - Run the test `CreateOrderTest` again. Produce a screenshot showing that the `createOrder` method in the service was called in the service class. 
 - In the `jeep.dao` sub-package, create the empty (no methods yet) DAO interface (named `JeepOrderDao`) and implementation (named `DefaultJeepOrderDao`).
 - Inject the DAO interface into the order service implementation class.
 - Add the `@Component` annotation to the DAO implementation class.
 - 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.
 - ***** 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.**
 - Replace the entire contents of `DefaultJeepOrderDao.java` with the source found in `DefaultJeepOrderDao.source`. The source file is found in the Source folder of the supplied project resources. After this step you will see errors in `DefaultJeepOrderDao`. This will be fixed shortly.
 - 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`.
- 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.

- In DefaultJeepOrderService.java, work with the method createOrder.
 - Add the @Transactional annotation to the createOrder method.
 - 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.
 - Calculate the price, including all options.
- 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);
```

 - Call the method from the order service. Produce a screenshot of the service method. 
 - Write the implementation of the saveOrder method in the DAO.
 - Call the supplied generateInsertSql method, passing in the customer, jeep, color, engine, tire and price. Assign the return value of the method to a SqlParameter object.
 - 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.
 - Write a method named saveOptions as shown in the video. This method should have the following method signature:

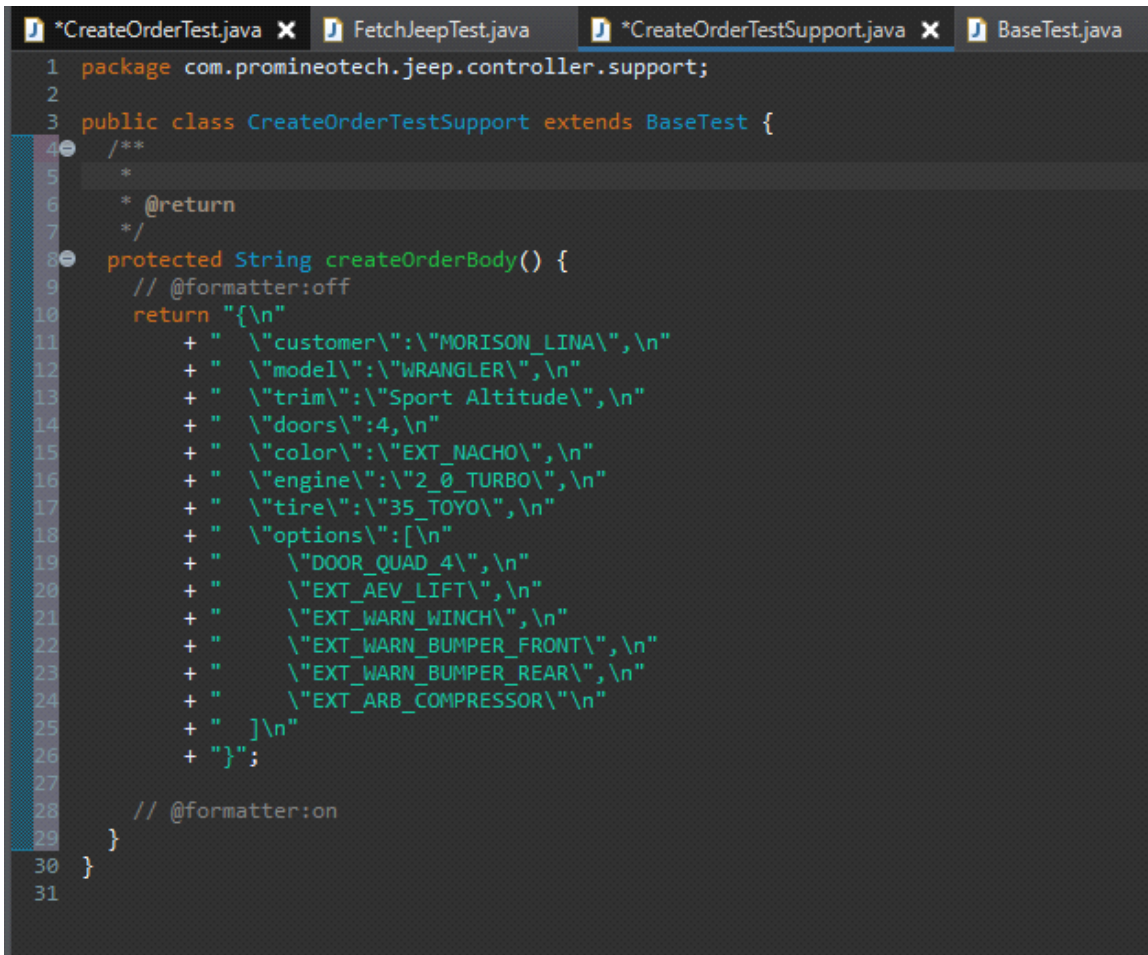
```
private void saveOptions(List<Option> options, Long orderPK)
```

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.
- 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.

- Produce a screenshot of the saveOrder method. 
- 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. 

Screenshots of Code:



```
1 package com.promineotech.jeep.controller.support;
2
3 public class CreateOrderTestSupport extends BaseTest {
4     /**
5      *
6      * @return
7      */
8     protected String createOrderBody() {
9         // @formatter:off
10        return "{\n"
11            + "  \"customer\": \"MORISON_LINA\", \n"
12            + "  \"model\": \"WRANGLER\", \n"
13            + "  \"trim\": \"Sport Altitude\", \n"
14            + "  \"doors\": 4, \n"
15            + "  \"color\": \"EXT_NACHO\", \n"
16            + "  \"engine\": \"2_0_TURBO\", \n"
17            + "  \"tire\": \"35_TOYO\", \n"
18            + "  \"options\": [\n"
19            + "    \"DOOR_QUAD_4\", \n"
20            + "    \"EXT_AEV_LIFT\", \n"
21            + "    \"EXT_WARN_WINCH\", \n"
22            + "    \"EXT_WARN BUMPER_FRONT\", \n"
23            + "    \"EXT_WARN BUMPER_REAR\", \n"
24            + "    \"EXT_ARB_COMPRESSOR\" \n"
25            + "  ] \n"
26            + "}";
27
28        // @formatter:on
29    }
30 }
31
```



```

30  */
31  @Test
32  void testCreateOrderReturnsSuccess201() {
33      // Given: an order as JSON
34      String body = createOrderBody();
35      String uri = getBaseUriForOrders();
36
37      HttpHeaders headers = new HttpHeaders();
38      headers.setContentType(MediaType.APPLICATION_JSON);
39
40      HttpEntity<String> bodyEntity = new HttpEntity<>(body, headers);
41
42      // When: the order is sent
43      ResponseEntity<Order> response = getRestTemplate().exchange(uri, HttpMethod.POST, bodyEntity, Order.class);
44
45      // Then: a 201 status is returned
46      assertThat(response.getStatusCode()).isEqualTo(HttpStatus.CREATED);
47
48      // And: the returned order is correct
49
50      assertThat(response.getBody()).isNotNull();
51
52      Order order = response.getBody();
53      assertThat(order.getCustomer().getCustomerId()).isEqualTo("MORISON_LINA");
54      assertThat(order.getModel().getModelId()).isEqualTo(JeepModel.WRANGLER);
55      assertThat(order.getModel().getTrimLevel()).isEqualTo("Sport Altitude");
56      assertThat(order.getModel().getNumDoors()).isEqualTo(4);
57      assertThat(order.getColor().getColorId()).isEqualTo("EXT_NACHO");
58      assertThat(order.getEngine().getEngineId()).isEqualTo("2_0_TURBO");
59      assertThat(order.getTire().getTireId()).isEqualTo("35_TOYO");
60      assertThat(order.getOptions()).hasSize(6);
61
62  }
63
64

```

```

1 package com.promineotech.jee.controller;
2
3 import org.springframework.http.HttpStatus;
4 import org.springframework.validation.annotation.Validated;
5 import org.springframework.web.bind.annotation.PostMapping;
6 import org.springframework.web.bind.annotation.RequestBody;
7 import org.springframework.web.bind.annotation.RequestMapping;
8 import org.springframework.web.bind.annotation.ResponseStatus;
9 import com.promineotech.jee.entity.Order;
10 import com.promineotech.jee.entity.OrderRequest;
11 import io.swagger.v3.oas.annotations.OpenAPIDefinition;
12 import io.swagger.v3.oas.annotations.Operation;
13 import io.swagger.v3.oas.annotations.Parameter;
14 import io.swagger.v3.oas.annotations.info.Info;
15 import io.swagger.v3.oas.annotations.media.Content;
16 import io.swagger.v3.oas.annotations.media.Schema;
17 import io.swagger.v3.oas.annotations.responses.ApiResponse;
18 import io.swagger.v3.oas.annotations.servers.Server;
19
20 @Validated
21 @RequestMapping("/orders")
22 @OpenAPIDefinition(info = @Info(title = "Jeep Order Service"), servers = {
23     @Server(url = "http://localhost:8080", description = "Local server.")})
24
25 public interface JeepOrderController {
26     /**
27      *
28      */
29
30     // @formatter:off
31     @Operation(
32         summary = "Create an order for a Jeep",
33         description = "Returns the created Jeep",
34         responses = {
35             @ApiResponse(
36                 responseCode = "201",
37                 description = "The created Jeep is returned",
38                 content = @Content(mediaType = "application/json",
39                     schema = @Schema(implementation = Order.class))),
40             @ApiResponse(
41                 responseCode = "400",
42                 description = "The requested parameters are invalid",
43                 content = @Content(mediaType = "application/json")),
44             @ApiResponse(
45                 responseCode = "404",
46                 description = "A Jeep component was not found with the input criteria",
47                 content = @Content(mediaType = "application/json")),
48             @ApiResponse(
49                 responseCode = "500",
50                 description = "An unplanned error occurred",
51                 content = @Content(mediaType = "application/json"))
52         },
53         parameters = {
54             @Parameter(
55                 name = "orderRequest",
56                 required = true,
57                 description = "The order as JSON"),
58         }
59     )
60     // @formatter:on
61
62     @PostMapping
63     @ResponseStatus(code = HttpStatus.CREATED)
64     Order createOrder(@RequestBody OrderRequest orderRequest);
65
66 }
67

```

```

DefaultJeepOrderService.java *DefaultJeepOrderDao.java JeepOrderDao.java CreateOrderTest.java
1 package com.promineotech.jeep.entity;
2
3 import java.util.List;
4 import javax.validation.constraints.Max;
5 import javax.validation.constraints.Min;
6 import javax.validation.constraints.NotNull;
7 import javax.validation.constraints.Pattern;
8 import javax.validation.constraints.Positive;
9 import org.hibernate.validator.constraints.Length;
10 import lombok.Data;
11
12 @Data
13 public class OrderRequest {
14     @NotNull
15     @Length(max = 30)
16     @Pattern(regexp = "[\\w\\s]*")
17     private String customer;
18
19     @NotNull
20     private JeepModel model;
21
22     @NotNull
23     @Length(max = 30)
24     @Pattern(regexp = "[\\w\\s]*")
25     private String trim;
26
27     @Positive
28     @Min(2)
29     @Max(4)
30     private int doors;
31
32     @NotNull
33     @Length(max = 30)
34     @Pattern(regexp = "[\\w\\s]*")
35     private String color;
36
37     @NotNull
38     @Length(max = 30)
39     @Pattern(regexp = "[\\w\\s]*")
40     private String engine;
41
42     @NotNull
43     @Length(max = 30)
44     @Pattern(regexp = "[A\\w\\s]*")
45     private String tire;
46
47     private List<@NotNull @Length(max = 30) @Pattern(regexp = "[\\w\\s]*") String> options;
48 }
49
50

```

```

*DefaultJeepOrder... x JeepOrderDao.java BasicJeepOrderCon... *DefaultJeepOrder... Order.java
1 package com.promineotech.jeep.service;
2
3 import java.math.BigDecimal;
18
19 @Service
20 public class DefaultJeepOrderService implements JeepOrderService {
21
22     @Autowired
23     private JeepOrderDao jeepOrderDao;
24
25     @Transactional
26     @Override
27     public Order createOrder(OrderRequest orderRequest) {
28         Customer customer = getCustomer(orderRequest);
29         Jeep jeep = getModel(orderRequest);
30         Color color = getColor(orderRequest);
31         Engine engine = getEngine(orderRequest);
32         Tire tire = getTire(orderRequest);
33         BigDecimal price = jeep.getBasePrice().add(color.getPrice())
34             .add(engine.getPrice()).add(tire.getPrice());
35         List<Option> options = getOption(orderRequest);
36
37         return jeepOrderDao.saveOrder(customer, jeep, color, engine, tire, price);
38     }
39
40     /**
41      *
42      * @param orderRequest
43      * @return
44      */
45     private List<Option> getOption(OrderRequest orderRequest) {
46         return jeepOrderDao.fetchOptions(orderRequest.getOptions());
47     }
48
49     /**
50      *
51      * @param orderRequest
52      * @return
53      */
54     private Tire getTire(OrderRequest orderRequest) {
55         return jeepOrderDao.fetchTire(orderRequest.getTire())
56             .orElseThrow(() -> new NoSuchElementException(
57                 "Tire with ID=" + orderRequest.getTire() + " was not found"));
58     }
59
60     /**
61      *
62      * @param orderRequest
63      * @return
64      */
65     private Engine getEngine(OrderRequest orderRequest) {
66         return jeepOrderDao.fetchEngine(orderRequest.getEngine())
67             .orElseThrow(() -> new NoSuchElementException(
68                 "Engine with ID=" + orderRequest.getEngine() + " was not found"));
69     }
70

```



```

70
71  /**
72   *
73   * @param orderRequest
74   * @return
75   */
76  private Color getColor(OrderRequest orderRequest) {
77      return jeepOrderDao.fetchColor(orderRequest.getColor())
78          .orElseThrow(() -> new NoSuchElementException(
79              "Color with ID=" + orderRequest.getColor() + " was not found"));
80  }
81
82  /**
83   *
84   * @param orderRequest
85   * @return
86   */
87  private Jeep getModel(OrderRequest orderRequest) {
88      return jeepOrderDao
89          .fetchModel(orderRequest.getModel(), orderRequest.getTrim(),
90              orderRequest.getDoors())
91          .orElseThrow(() -> new NoSuchElementException("Model with ID="
92              + orderRequest.getModel() + ", trim=" + orderRequest.getTrim()
93              + orderRequest.getDoors() + " was not found"));
94  }
95
96  /**
97   *
98   * @param orderRequest
99   * @return
100  */
101  private Customer getCustomer(OrderRequest orderRequest) {
102      return jeepOrderDao.fetchCustomer(orderRequest.getCustomer())
103          .orElseThrow(() -> new NoSuchElementException("Customer with ID="
104              + orderRequest.getCustomer() + " was not found"));
105  }
106
107  }
108

```

```
JeepOrderDao.java BasicJeepOrderController.java DefaultJeepOrderService.java DefaultJeepOrderDao.java x
27 import com.promineotech.jeepp.entity.Order;
28 import com.promineotech.jeepp.entity.Tire;
29
30 @Component
31 public class DefaultJeepOrderDao implements JeepOrderDao {
32     @Autowired
33     private NamedParameterJdbcTemplate jdbcTemplate;
34
35     @Override
36     public Order saveOrder(Customer customer, Jeep jeep, Color color, Engine engine, Tire tire,
37         BigDecimal price, List<Option> options) {
38         SqlParams params = generateInsertSql(customer, jeep, color, engine, tire, price);
39
40         KeyHolder keyHolder = new GeneratedKeyHolder();
41         jdbcTemplate.update(params.sql, params.source, keyHolder);
42
43         Long orderPK = keyHolder.getKey().longValue();
44         saveOptions(options, orderPK);
45
46         // @formatter:off
47         return Order.builder()
48             .orderPK(orderPK)
49             .customer(customer)
50             .model(jeep)
51             .color(color)
52             .engine(engine)
53             .tire(tire)
54             .options(options)
55             .price(price)
56             .build();
57         // @formatter:on
58     }
59
60     /**
61      * @param options
62      * @param orderPK
63      */
64     private void saveOptions(List<Option> options, Long orderPK) {
65         for(Option option : options) {
66             SqlParams params = generateInsertSql(option, orderPK);
67             jdbcTemplate.update(params.sql, params.source);
68         }
69     }
70
71     /**
72      *
73      * @param option
74      * @param orderPK
75      * @return
76      */
77     private SqlParams generateInsertSql(Option option, Long orderPK) {
78         SqlParams params = new SqlParams();
79         // ...
80     }
}
```

Screenshots of Running Application:

```

1 package com.prominotech.jee.dao;
2
3 import org.springframework.stereotype.Component;
4
5 @Component
6 @Slf4j
7 public class DefaultJeepOrderService implements JeepOrderService {
8
9     @Override
10    public Order createOrder(OrderRequest orderRequest) {
11        log.debug("Order: {}", orderRequest);
12        return null;
13    }
14 }

```

23:42:13.247 [main] DEBUG org.springframework.core.env.StandardEnvironment - Activating profiles [test]

23:42:13.252 [main] DEBUG org.springframework.test.context.support.TestPropertySourceUtils - Adding inlined properties to environment: (spring.jmx.enabled=false, org.springframework.boot.test)

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Starting CreateOrderTest using Java 16.0.1 on BigBlue with PID 18296 (started by Sojia In)

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Running with Spring Boot v2.5.2, Spring v5.3.8

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - The following profiles are active: test

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Started CreateOrderTest in 4.48 seconds (JVM running for 5.729s)

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Order=OrderRequest(customer=NORISOL_LINA, model=URANGELR, tria=Sport Altitude, doors=4, cc=Exception)

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - java.lang.NullPointerException: Cannot invoke "com.prominotech.jee.service.JeeOrderService.createOrder(com.prominotech.jee.entity.OrderRequest)" because "this.jeeOrderService" is null

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - at com.prominotech.jee.controller.BasicJeepOrderController.createOrder(BasicJeepOrderController.java:20) ~[classes/:na]

23:42:13.252 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - at com.prominotech.jee.controller.BasicJeepOrderController\$\$FastClassBySpring\$\$1851ff671fc.invoke(generated) ~[classes/:na]

```

1 package com.prominotech.jee.controller;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @RestController
6 @Slf4j
7 public class BasicJeepOrderController implements JeepOrderController {
8
9     @Autowired
10    private JeeOrderService jeepOrderService;
11
12    @Override
13    public Order createOrder(OrderRequest orderRequest) {
14        log.debug("Order: {}", orderRequest);
15        return jeepOrderService.createOrder(orderRequest);
16    }
17 }

```

23:45:14.200 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Instantiating CacheAwareContextLoaderDelegate from class [org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate]

23:45:14.222 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Instantiating BootstrapContext using constructor [public org.springframework.test.context.support.DefaultBootstrapContext(java.lang.Class, java.util.Properties)]

23:45:14.242 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Instantiating TestContextBootstrapper for test class [com.prominotech.jee.controller.CreateOrderTest] from class [org.springframework.test.context.support.AnnotationMethodTestContextBootstrapper]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Neither @ContextConfiguration nor @ContextHierarchy found for test class [com.prominotech.jee.controller.CreateOrderTest], using class [org.springframework.test.context.support.AnnotationMethodTestContextBootstrapper]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Did not detect default resource location for test class [com.prominotech.jee.controller.CreateOrderTest]: no ResourceLoader with prefix 'classpath:' found, using class path resources

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Did not detect default resource location for test class [com.prominotech.jee.controller.CreateOrderTest]: no ResourceLoader with prefix 'classpath:' found, using class path resources

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Could not detect default configuration classes for test class [com.prominotech.jee.controller.CreateOrderTest]: no configuration classes found in package [com.prominotech.jee.controller]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Could not detect default configuration classes for test class [com.prominotech.jee.controller.CreateOrderTest]: no configuration classes found in package [com.prominotech.jee.controller]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Identified candidate configuration classes for test class [com.prominotech.jee.controller.CreateOrderTest]: [com.prominotech.jee.controller.CreateOrderTest]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Found @SpringBootConfiguration com.prominotech.jee.JeeApp for test class [com.prominotech.jee.controller.CreateOrderTest]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - @TestExecutionListeners is not present for class [com.prominotech.jee.controller.CreateOrderTest], using class [org.springframework.test.context.support.AnnotationMethodTestExecutionListener]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Using TestExecutionListeners: [org.springframework.test.context.support.AnnotationMethodTestExecutionListener, org.springframework.test.context.support.DefaultTestExecutionListener]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Before Test class: context [DefaultTestContext@60812202 testClass = CreateOrderTest, testMethod = createOrder]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Performing dependency injection for test class [com.prominotech.jee.controller.CreateOrderTest]

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Adding inlined properties to environment: (spring.jmx.enabled=false, org.springframework.boot.test)

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Starting CreateOrderTest using Java 16.0.1 on BigBlue with PID 14816 (started by Sojia In)

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Running with Spring Boot v2.5.2, Spring v5.3.8

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - The following profiles are active: test

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Started CreateOrderTest in 4.38 seconds (JVM running for 5.644s)

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Order=OrderRequest(customer=NORISOL_LINA, model=URANGELR, tria=Sport Altitude, doors=4, cc=Exception)

23:45:14.274 [main] INFO org.springframework.test.context.SpringBootTestContextBootstrapper - Order=OrderRequest(customer=NORISOL_LINA, model=URANGELR, tria=Sport Altitude, doors=4, cc=Exception)

