```
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);
}}
package com.promineotech.jeep.controller;
import java.util.List;
import org.springframework.web.bind.annotation.RestController;
import com.promineotech.jeep.entity.Jeep;
@RestController
public class DefaultJeepSalesController implements JeepSalesController {
 @Override
 public List<Jeep> fetchJeeps(String model, String trim) {
  return null;
}
}
import java.util.List;
import org.springframework.http.HttpStatus;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseStatus;
import com.promineotech.jeep.entity.Jeep;
```

```
import io.swagger.v3.oas.annotations.OpenAPIDefinition;
import io.swagger.v3.oas.annotations.Operation;
import io.swagger.v3.oas.annotations.Parameter;
import io.swagger.v3.oas.annotations.info.Info;
import io.swagger.v3.oas.annotations.media.Content;
import io.swagger.v3.oas.annotations.media.Schema;
import io.swagger.v3.oas.annotations.responses.ApiResponse;
import io.swagger.v3.oas.annotations.servers.Server;
@RequestMapping("/jeeps")
@OpenAPIDefinition(info = @Info(title = "Jeep Sales Service"), servers = {
@Server(url = "http://localhost:8080", description = "Local server.")})
public interface JeepSalesController {
//@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 Jeeps 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 woth the input criteria",
```

```
content = @Content(mediaType = "application/json")),
     @ApiResponse(
       responseCode = "500",
       description = "An unplanned error occured",
       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')"),
  }
  )
 @GetMapping
 @ResponseStatus(code = HttpStatus.OK)
 List<Jeep> fetchJeeps(
   @RequestParam(required = false)
   String model,
   @RequestParam(required = false)
   String trim);
//@formatter: on
package com.promineotech.jeep.controller;
import static org.assertj.core.api.Assertions.assertThat;
import java.util.List;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
```

}

```
import org.springframework.test.context.ActiveProfiles;
import\ org. spring framework. boot. test. context. Spring Boot Test. Web Environment;
import org.springframework.boot.test.web.client.TestRestTemplate;
import org.springframework.boot.web.server.LocalServerPort;
import org.springframework.core.ParameterizedTypeReference;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.test.context.jdbc.Sql;
import org.springframework.test.context.jdbc.SqlConfig;
import com.promineotech.jeep.entity.Jeep;
import com.promineotech.jeep.entity.JeepModel;
import org.springframework.http.HttpMethod;
@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 FetchJeepTest2 {
 @Autowired
 private TestRestTemplate restTemplate;
 @LocalServerPort
 private int serverPort;
```

import org.springframework.boot.test.context.SpringBootTest;

```
@Test
void testThatJeepsAreReturnedWhenAValidModelAndTrimAreSupplied() {
 JeepModel model = JeepModel.WRANGLER;
 String trim = "Sport";
 String uri =
  String.format("http://localhost:%d/jeeps?model=%s&trim=%s", serverPort, model, trim);
 ResponseEntity<List<Jeep>> response =
  restTemplate.exchange(uri, HttpMethod.GET, null, new ParameterizedTypeReference<>() {});
 assertThat(response.getStatusCode()).isEqualTo(HttpStatus.OK);
}
}
pom
<?xml version="1.0" encoding="UTF-8"?>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0
.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-parent</artifactId>
<version>2.6.14
<relativePath/> <!-- lookup parent from repository</pre>
-->
```

```
</parent>
<groupId>com.promineotech
<artifactId>jeep-sales</artifactId>
<version>1.0.0.1-SNAPSHOT
<name>jeep-sales</name>
<description>Jeep Sales</description>
cproperties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-devtools</artifactId>
<scope>runtime</scope>
<optional>true</optional>
</dependency>
<dependency>
<groupId>org.projectlombok
<artifactId>lombok</artifactId>
<optional>true</optional>
```

```
</dependency>
<dependency>
<groupId>org.springdoc
<artifactId>springdoc-openapi-ui</artifactId>
<version>1.5.5
</dependency>
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-test</artifactId>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.springframework.boot
<artifactId>spring-boot-maven-plugin</artifactId>
<configuration>
<excludes>
<exclude>
<groupId>org.projectlombok
<artifactId>lombok</artifactId>
</exclude>
</excludes>
```