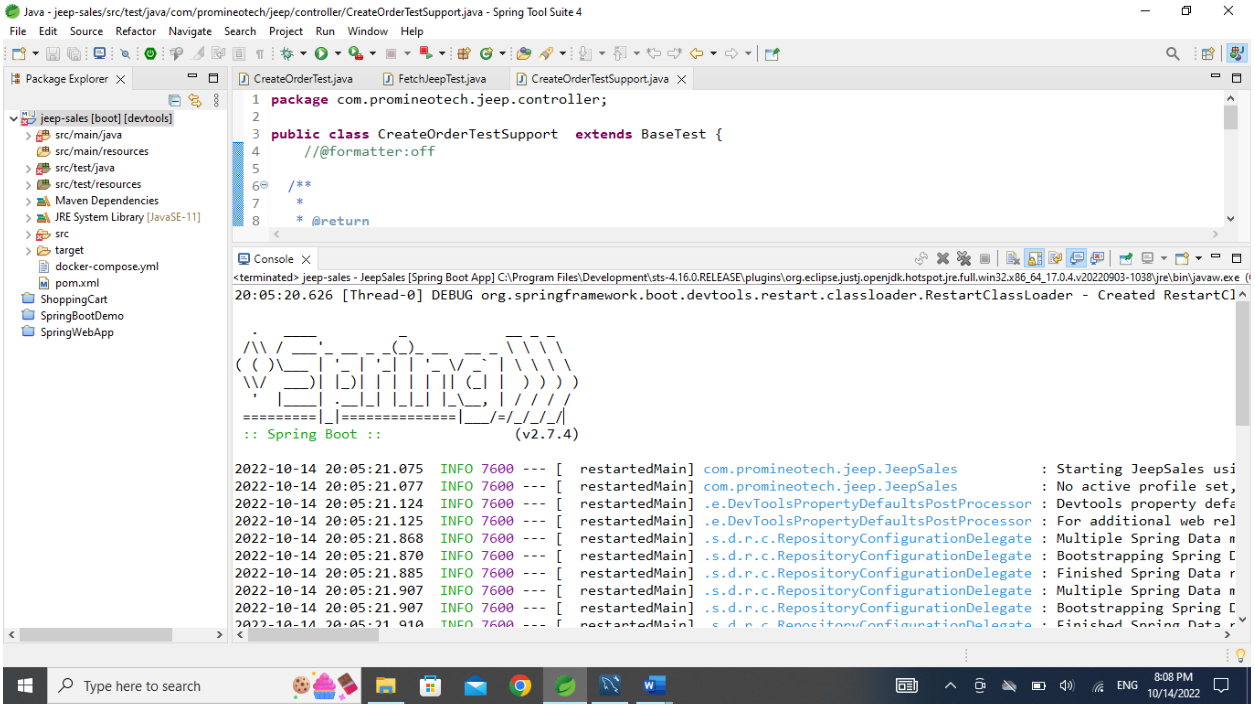
Week 16 coding Assignment requirements and screenshots.

Screenshots of Code:


Java - jeep-sales/src/test/java/com/promineotech/jeep/controller/CreateOrderTestSupport.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
jeep-sales [boot] [devtools]
src/main/java
src/main/resources
src/test/java
src/test/resources
Maven Dependencies
JRE System Library [JavaSE-11]
src
target
docker-compose.yml
pom.xml
ShoppingCart
SpringBootDemo
SpringWebApp
CreateOrderTest.java
FetchJeepTest.java
CreateOrderTestSupport.java
Console
Type here to search
ENG
8:08 PM
10/14/2022

```
package com.promineotech.jeep.controller;

public class CreateOrderTestSupport  extends BaseTest {
    //@formatter:off

  /**
   *
   * @return
```

```
<terminated> jeep-sales - JeepSales [Spring Boot App] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (
20:05:20.626 [Thread-0] DEBUG org.springframework.boot.devtools.restart.classloader.RestartClassLoader - Created RestartCl

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( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.4)

2022-10-14 20:05:21.075  INFO 7600 --- [  restartedMain] com.promineotech.jeep.JeepSales          : Starting JeepSales usi
2022-10-14 20:05:21.077  INFO 7600 --- [  restartedMain] com.promineotech.jeep.JeepSales          : No active profile set,
2022-10-14 20:05:21.124  INFO 7600 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defa
2022-10-14 20:05:21.125  INFO 7600 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web rel
2022-10-14 20:05:21.868  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Multiple Spring Data m
2022-10-14 20:05:21.870  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring D
2022-10-14 20:05:21.885  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data r
2022-10-14 20:05:21.907  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Multiple Spring Data m
2022-10-14 20:05:21.907  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring D
2022-10-14 20:05:21.910  INFO 7600 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data r
```
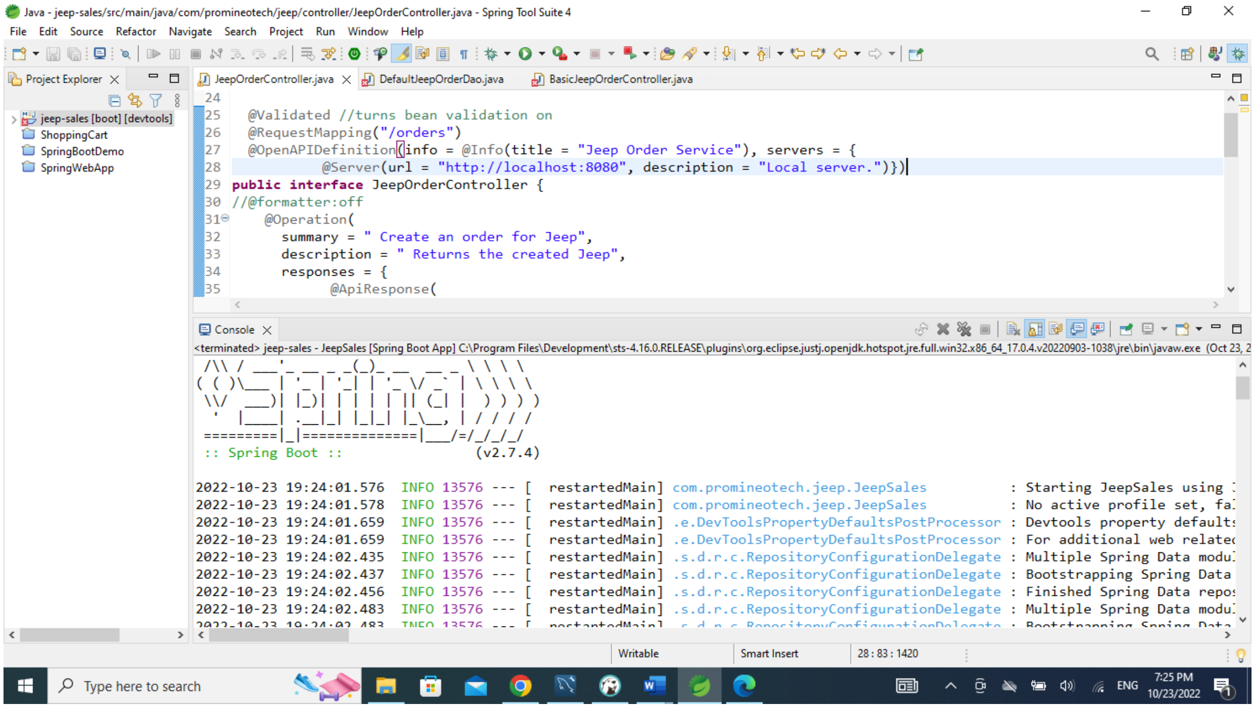
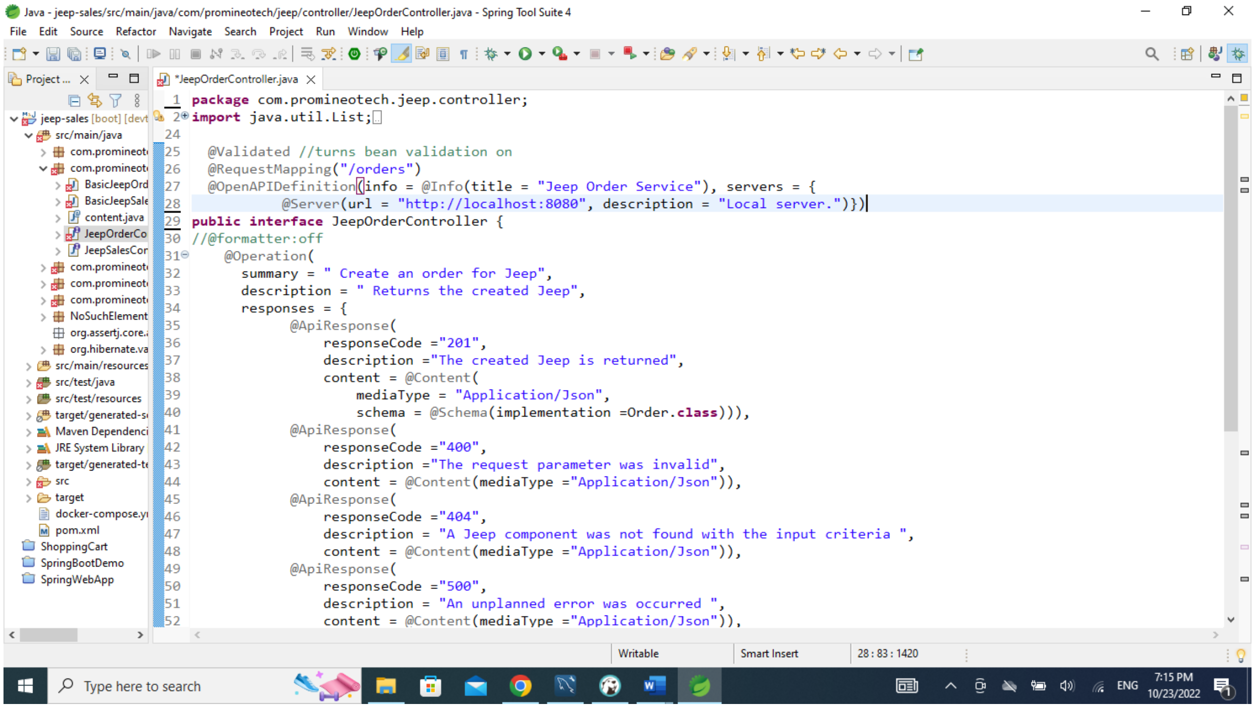
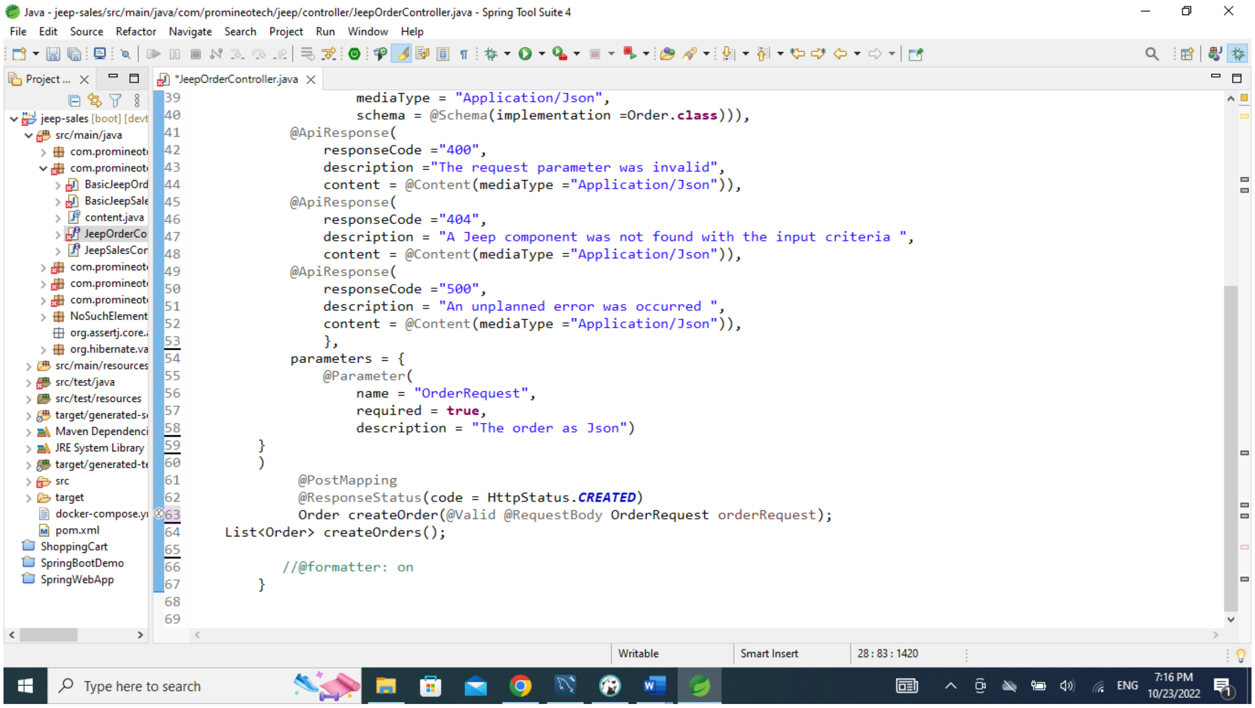


Java - jeep-sales/src/main/java/com/promineotech/jeep/controller/JeepOrderController.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
jeep-sales [boot] [devtools]
ShoppingCart
SpringBootDemo
SpringWebApp
JeepOrderController.java
DefaultJeepOrderDao.java
BasicJeepOrderController.java
Console
Writable
Smart Insert
28 : 83 : 1420
Type here to search
ENG
7:25 PM
10/23/2022

```

  @Validated //turns bean validation on
  @RequestMapping("/orders")
  @OpenAPIDefinition(info = @Info(title = "Jeep Order Service"), servers = {
           @Server(url = "http://localhost:8080", description = "Local server.")})
public interface JeepOrderController {
//@formatter:off
    @Operation(
      summary = " Create an order for Jeep",
      description = " Returns the created Jeep",
      responses = {
            @ApiResponse(
```

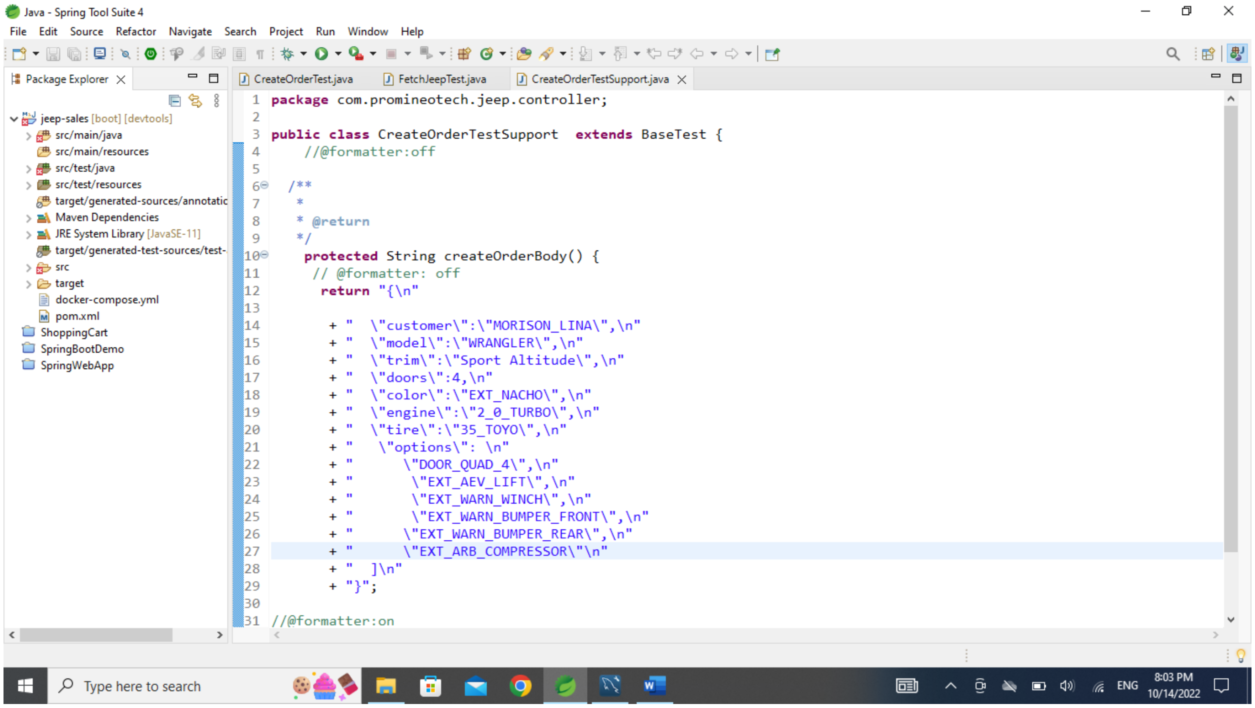
```
<terminated> jeep-sales - JeepSales [Spring Boot App] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (Oct 23, 2
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.4)

2022-10-23 19:24:01.576  INFO 13576 --- [  restartedMain] com.promineotech.jeep.JeepSales          : Starting JeepSales using 
2022-10-23 19:24:01.578  INFO 13576 --- [  restartedMain] com.promineotech.jeep.JeepSales          : No active profile set, fa
2022-10-23 19:24:01.659  INFO 13576 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property default
2022-10-23 19:24:01.659  INFO 13576 --- [  restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web relate
2022-10-23 19:24:02.435  INFO 13576 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Multiple Spring Data modu
2022-10-23 19:24:02.437  INFO 13576 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data
2022-10-23 19:24:02.456  INFO 13576 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repo
2022-10-23 19:24:02.483  INFO 13576 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Multiple Spring Data modu
2022-10-23 19:24:02.483  INFO 13576 --- [  restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data
```


Java - jeep-sales/src/main/java/com/promineotech/jeep/controller/JeepOrderController.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
*JeepOrderController.java
Writable
Smart Insert
28 : 83 : 1420
Type here to search
7:15 PM
10/23/2022

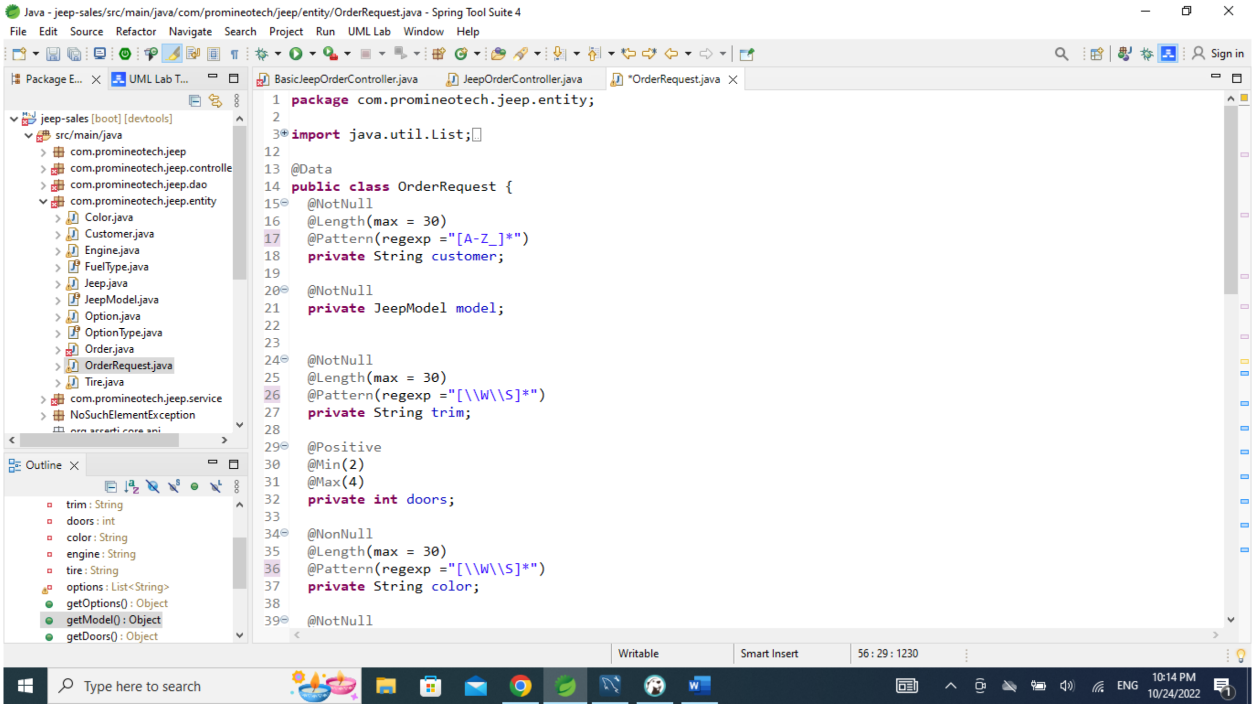
```java
package com.promineotech.jeep.controller;
import java.util.List;

  @Validated //turns bean validation on
  @RequestMapping("/orders")
  @OpenAPIDefinition(info = @Info(title = "Jeep Order Service"), servers = {
           @Server(url = "http://localhost:8080", description = "Local server.")})
public interface JeepOrderController {
//@formatter:off
    @Operation(
      summary = " Create an order for Jeep",
      description = " Returns the created Jeep",
      responses = {
            @ApiResponse(
                responseCode ="201",
                description ="The created Jeep is returned",
                content = @Content(
                    mediaType = "Application/Json",
                    schema = @Schema(implementation =Order.class))),
            @ApiResponse(
                responseCode ="400",
                description ="The request parameter was invalid",
                content = @Content(mediaType ="Application/Json")),
            @ApiResponse(
                responseCode ="404",
                description = "A Jeep component was not found with the input criteria ",
                content = @Content(mediaType ="Application/Json")),
            @ApiResponse(
                responseCode ="500",
                description = "An unplanned error was occurred ",
                content = @Content(mediaType ="Application/Json")),
```


Java - jeep-sales/src/main/java/com/promineotech/jeep/controller/JeepOrderController.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
*JeepOrderController.java
Writable
Smart Insert
28 : 83 : 1420
Type here to search
7:16 PM
10/23/2022

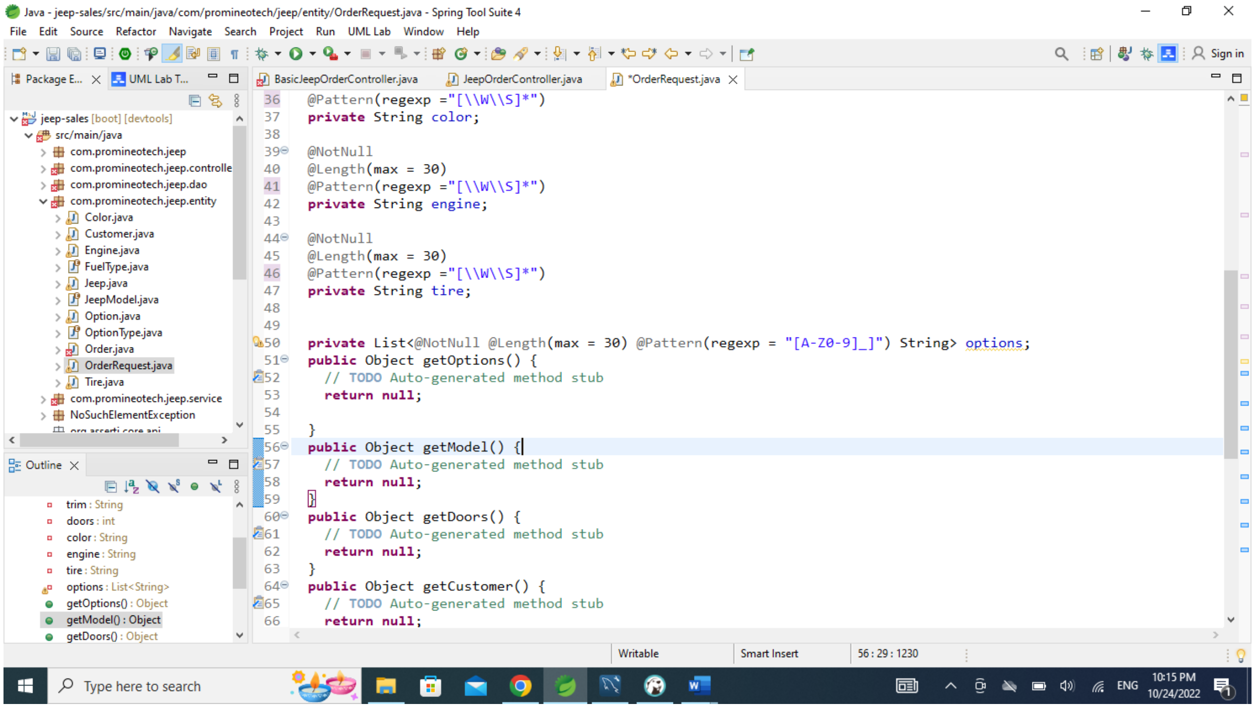
```java
                    mediaType = "Application/Json",
                    schema = @Schema(implementation =Order.class))),
            @ApiResponse(
                responseCode ="400",
                description ="The request parameter was invalid",
                content = @Content(mediaType ="Application/Json")),
            @ApiResponse(
                responseCode ="404",
                description = "A Jeep component was not found with the input criteria ",
                content = @Content(mediaType ="Application/Json")),
            @ApiResponse(
                responseCode ="500",
                description = "An unplanned error was occurred ",
                content = @Content(mediaType ="Application/Json")),
                },
            parameters = {
                @Parameter(
                    name = "OrderRequest",
                    required = true,
                    description = "The order as Json")
        }
        )
             @PostMapping
             @ResponseStatus(code = HttpStatus.CREATED)
             Order createOrder(@Valid @RequestBody OrderRequest orderRequest);
    List<Order> createOrders();

           //@formatter: on
        }
```


Java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
jeep-sales [boot] [devtools]
src/main/java
src/main/resources
src/test/java
src/test/resources
target/generated-sources/annotatic
Maven Dependencies
JRE System Library [JavaSE-11]
target/generated-test-sources/test-
src
target
docker-compose.yml
pom.xml
ShoppingCart
SpringBootDemo
SpringWebApp
CreateOrderTest.java
FetchJeepTest.java
CreateOrderTestSupport.java
Type here to search
ENG
8:03 PM
10/14/2022

```java
package com.promineotech.jeep.controller;

public class CreateOrderTestSupport  extends BaseTest {
    //@formatter:off

  /**
   *
   * @return
   */
    protected String createOrderBody() {
     // @formatter: off
      return "{\n"

        + "  \"customer\":\"MORISON_LINA\",\n"
        + "  \"model\":\"WRANGLER\",\n"
        + "  \"trim\":\"Sport Altitude\",\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
```

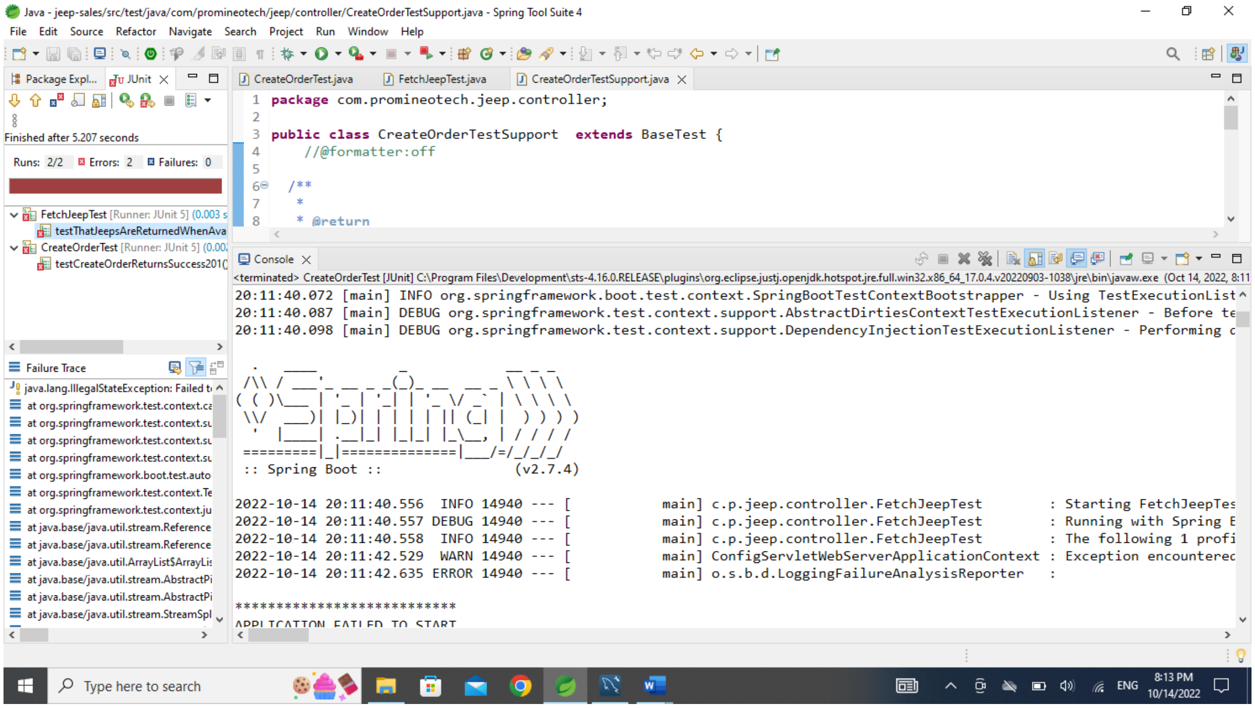


```java
package com.promineotech.jeep.entity;

import java.util.List;

@Data
public class OrderRequest {
  @NotNull
  @Length(max = 30)
  @Pattern(regexp ="[A-Z_]*")
  private String customer;

  @NotNull
  private JeepModel model;


  @NotNull
  @Length(max = 30)
  @Pattern(regexp ="[\\W\\S]*")
  private String trim;

  @Positive
  @Min(2)
  @Max(4)
  private int doors;

  @NonNull
  @Length(max = 30)
  @Pattern(regexp ="[\\W\\S]*")
  private String color;

  @NotNull
```



```java
@Pattern(regexp ="[\\W\\S]*")
private String color;

@NotNull
@Length(max = 30)
@Pattern(regexp ="[\\W\\S]*")
private String engine;

@NotNull
@Length(max = 30)
@Pattern(regexp ="[\\W\\S]*")
private String tire;


private List<@NotNull @Length(max = 30) @Pattern(regexp = "[A-Z0-9]_]") String> options;
public Object getOptions() {
  // TODO Auto-generated method stub
  return null;

}
public Object getModel() {
  // TODO Auto-generated method stub
  return null;
}
public Object getDoors() {
  // TODO Auto-generated method stub
  return null;
}
public Object getCustomer() {
  // TODO Auto-generated method stub
  return null;
```

Screenshots of Running Application:


Java - jeep-sales/src/test/java/com/promineotech/jeep/controller/CreateOrderTestSupport.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Expl... JUnit
Finished after 5.207 seconds
Runs: 2/2 Errors: 2 Failures: 0
FetchJeepTest [Runner: JUnit 5] (0.003 s
testThatJeepsAreReturnedWhenAva
CreateOrderTest [Runner: JUnit 5] (0.00
testCreateOrderReturnsSuccess201(
Failure Trace
CreateOrderTest.java
FetchJeepTest.java
CreateOrderTestSupport.java
Console
Type here to search
ENG
8:13 PM
10/14/2022

```
java.lang.IllegalStateException: Failed t
at org.springframework.test.context.ca
at org.springframework.test.context.su
at org.springframework.test.context.su
at org.springframework.test.context.su
at org.springframework.boot.test.auto
at org.springframework.test.context.Te
at org.springframework.test.context.ju
at java.base/java.util.stream.Reference
at java.base/java.util.stream.Reference
at java.base/java.util.ArrayList$ArrayLis
at java.base/java.util.stream.AbstractPi
at java.base/java.util.stream.AbstractPi
at java.base/java.util.stream.StreamSpl
```

```java
package com.promineotech.jeep.controller;

public class CreateOrderTestSupport  extends BaseTest {
    //@formatter:off

  /**
   *
   * @return
```

```
<terminated> CreateOrderTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe  (Oct 14, 2022, 8:11
20:11:40.072 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Using TestExecutionList
20:11:40.087 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener - Before te
20:11:40.098 [main] DEBUG org.springframework.test.context.support.DependencyInjectionTestExecutionListener - Performing c

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 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
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 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.4)

2022-10-14 20:11:40.556  INFO 14940 --- [           main] c.p.jeep.controller.FetchJeepTest        : Starting FetchJeepTes
2022-10-14 20:11:40.557 DEBUG 14940 --- [           main] c.p.jeep.controller.FetchJeepTest        : Running with Spring E
2022-10-14 20:11:40.558  INFO 14940 --- [           main] c.p.jeep.controller.FetchJeepTest        : The following 1 profi
2022-10-14 20:11:42.529  WARN 14940 --- [           main] ConfigServletWebServerApplicationContext : Exception encounterec
2022-10-14 20:11:42.635 ERROR 14940 --- [           main] o.s.b.d.LoggingFailureAnalysisReporter   :

***************************
APPLICATION FAILED TO START
```
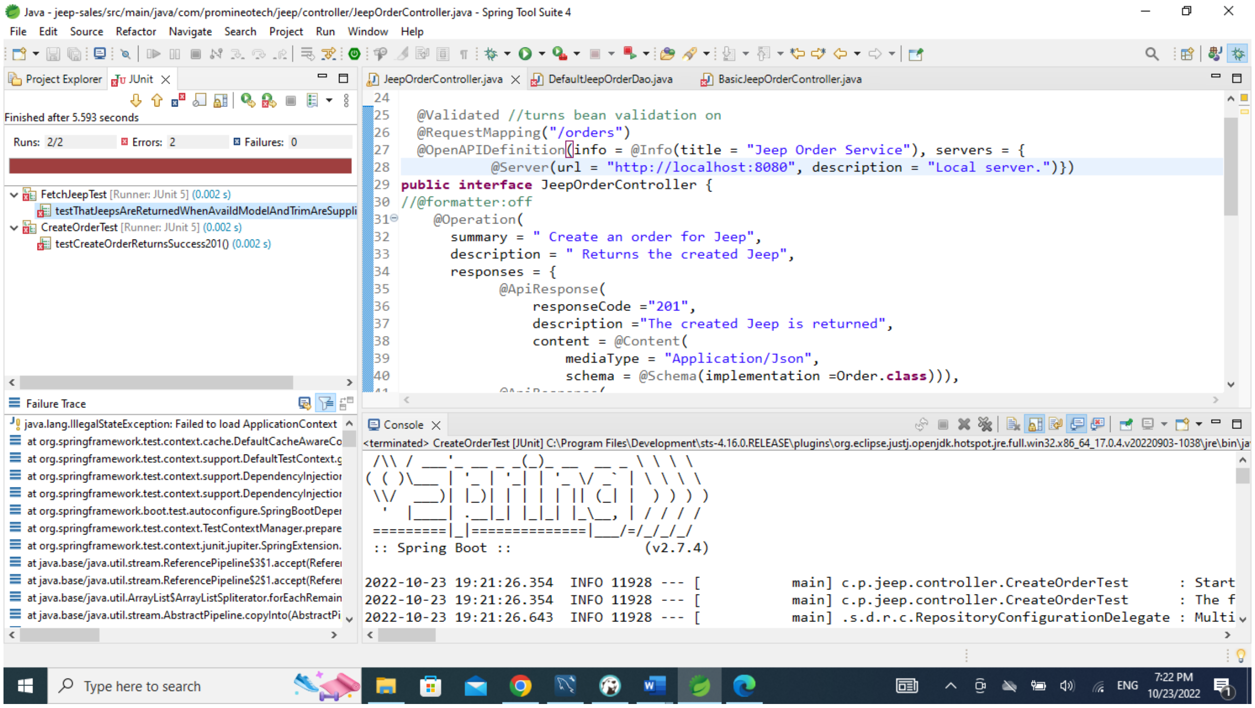


Java - jeep-sales/src/main/java/com/promineotech/jeep/controller/JeepOrderController.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
JUnit
JeepOrderController.java
DefaultJeepOrderDao.java
BasicJeepOrderController.java
Failure Trace
Console
Type here to search
ENG
7:22 PM
10/23/2022

Finished after 5.593 seconds

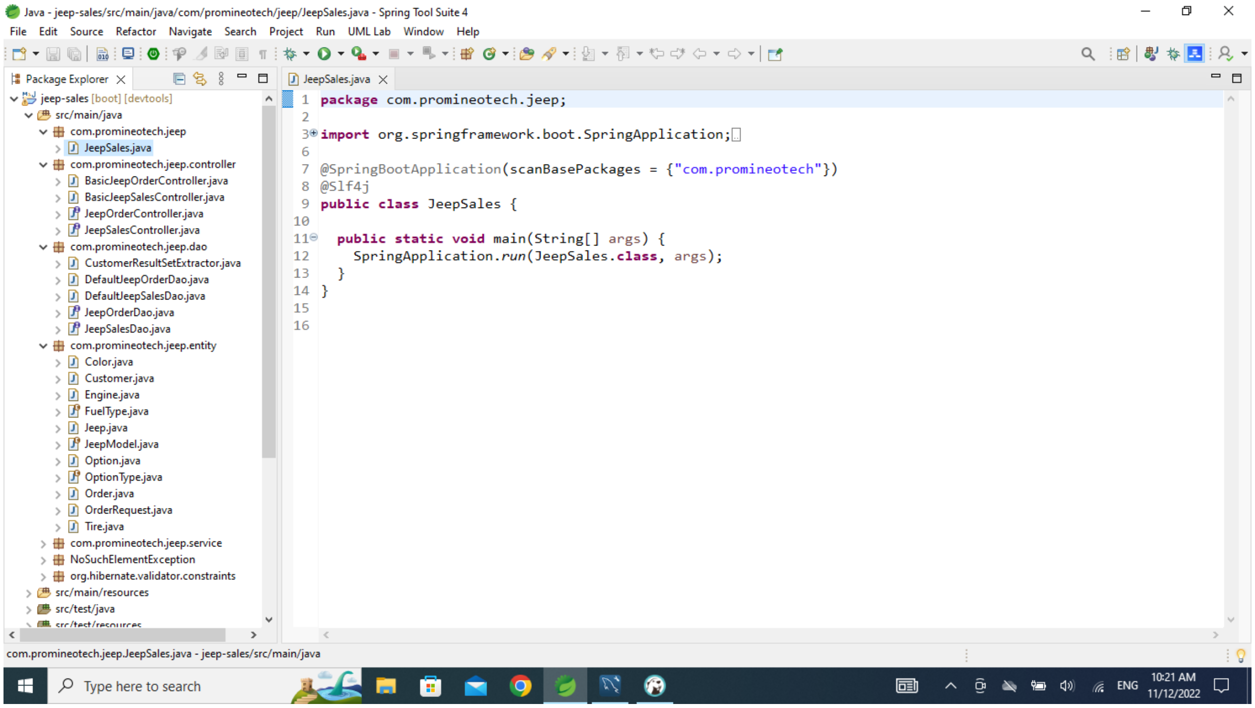
Runs: 2/2 Errors: 2 Failures: 0

- FetchJeepTest [Runner: JUnit 5] (0.002 s)
  - testThatJeepsAreReturnedWhenAvaildModelAndTrimAreSuppli
- CreateOrderTest [Runner: JUnit 5] (0.002 s)
  - testCreateOrderReturnsSuccess201() (0.002 s)

```java

@Validated //turns bean validation on
@RequestMapping("/orders")
@OpenAPIDefinition(info = @Info(title = "Jeep Order Service"), servers = {
        @Server(url = "http://localhost:8080", description = "Local server.")})
public interface JeepOrderController {
//@formatter:off
  @Operation(
    summary = " Create an order for Jeep",
    description = " Returns the created Jeep",
    responses = {
          @ApiResponse(
              responseCode ="201",
              description ="The created Jeep is returned",
              content = @Content(
                  mediaType = "Application/Json",
                  schema = @Schema(implementation =Order.class))),
```

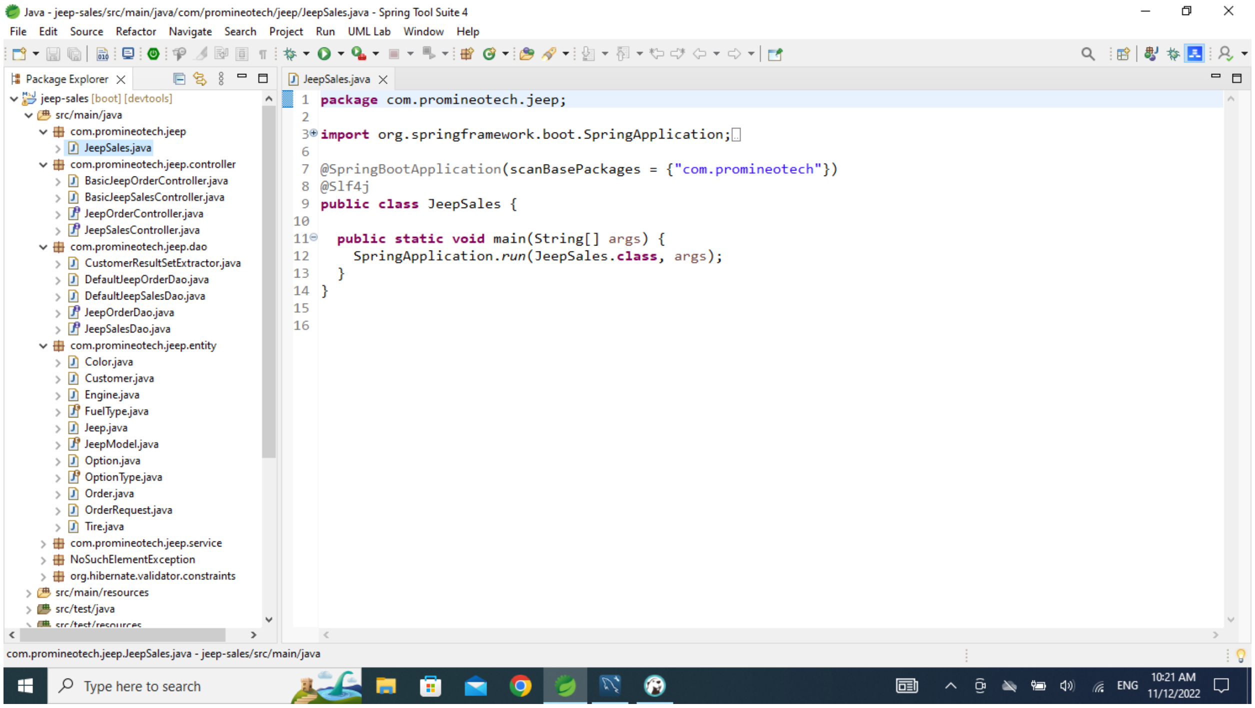
```
java.lang.IllegalStateException: Failed to load ApplicationContext
at org.springframework.test.context.cache.DefaultCacheAwareCo
at org.springframework.test.context.support.DefaultTestContext.g
at org.springframework.test.context.support.DependencyInjectior
at org.springframework.test.context.support.DependencyInjectior
at org.springframework.boot.test.autoconfigure.SpringBootDeper
at org.springframework.test.context.TestContextManager.prepare
at org.springframework.test.context.junit.jupiter.SpringExtension.
at java.base/java.util.stream.ReferencePipeline$3$1.accept(Referei
at java.base/java.util.stream.ReferencePipeline$2$1.accept(Referei
at java.base/java.util.ArrayList$ArrayListSpliterator.forEachRemain
at java.base/java.util.stream.AbstractPipeline.copyInto(AbstractPi
```

```
<terminated> CreateOrderTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\ja
  /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
 ( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
  \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
   '  |____| .__|_| |_|_| |_\__, | / / / /
  =========|_|==============|___/=/_/_/_/
  :: Spring Boot ::                (v2.7.4)

2022-10-23 19:21:26.354  INFO 11928 --- [           main] c.p.jeep.controller.CreateOrderTest      : Start
2022-10-23 19:21:26.354  INFO 11928 --- [           main] c.p.jeep.controller.CreateOrderTest      : The f
2022-10-23 19:21:26.643  INFO 11928 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Multi
```



```java
package com.promineotech.jeep;

import org.springframework.boot.SpringApplication;

@SpringBootApplication(scanBasePackages = {"com.promineotech"})
@Slf4j
public class JeepSales {

  public static void main(String[] args) {
    SpringApplication.run(JeepSales.class, args);
  }
}
```

com.promineotech.jeep.JeepSales.java - jeep-sales/src/main/java



```java
package com.promineotech.jeep;

import org.springframework.boot.SpringApplication;

@SpringBootApplication(scanBasePackages = {"com.promineotech"})
@Slf4j
public class JeepSales {

  public static void main(String[] args) {
    SpringApplication.run(JeepSales.class, args);
  }
}
```

com.promineotech.jeep.JeepSales.java - jeep-sales/src/main/java

URL to GitHub Repository:

Zbekele2022/Week-16-Coding-Assignment (github.com)