

Java - jeep-sales/src/test/java/com/Promineotech/Jeep/controller/FetchJeepTest.java - Spring Tool Suite 4

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit X
OPtion.java Jeep.java OrderRequest.java JeepSales.java FetchJeepTest.java BaseTest.java fetchJeepTestSupp... JeepModel.java
Finished after 4.268 seconds
Runs: 1/1 Errors: 0 Failures: 0
FetchJeepTest [Runner: JUnit 5] (0.4s)
Console X
<terminated> FetchJeepTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.jdt.core\openjdk\hotspot\jre\full\win32\x86_64\17.0.4.v20220903-1038\jre\bin\java.exe (Sep 23, 2022: 21:19:34.648 [main] INFO org.springframework.boot.test.context.SpringBootTest - Loaded default TestExecutionListener class names from ^ 21:19:34.660 [main] DEBUG org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Skipping candidate TestExecutionListener [org.springframework.boot.test.context.SpringBootTestContextBootstrapper] - Skipping candidate TestExecutionListener [org.springframework.boot.test.context.SpringBootTestRestTemplate] 21:19:34.660 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Using TestExecutionListeners: [org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener [org.springframework.test.context.support.DependencyInjectionTestExecutionListener - Before test class: context [DefaultTestContext@4013]] 21:19:34.665 [main] DEBUG org.springframework.test.context.support.DependencyInjectionTestExecutionListener - Performing dependency injection for test co
Failure Trace
:: Spring Boot ::
( v2.7.3 )
2022-09-23 21:19:35.088 INFO 12856 --- [ main] c.P.Jeep.controller.FetchJeepTest : Starting FetchJeepTest using Java 17.0.4.1 on DESKTO
2022-09-23 21:19:35.099 INFO 12856 --- [ main] c.P.Jeep.controller.FetchJeepTest : The following 1 profile is active: "test"
2022-09-23 21:19:36.299 INFO 12856 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 0 (http)
2022-09-23 21:19:36.275 INFO 12856 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-09-23 21:19:36.275 INFO 12856 --- [ main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-09-23 21:19:36.455 INFO 12856 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[] : Initializing Spring embedded WebApplicationContext
2022-09-23 21:19:36.455 INFO 12856 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed
2022-09-23 21:19:37.923 INFO 12856 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 61649 (http) with context
2022-09-23 21:19:37.936 INFO 12856 --- [ main] c.P.Jeep.controller.FetchJeepTest : Started FetchJeepTest in 3.203 seconds (JVM running
Type here to search
9:21 PM 9/23/2022

```

Java - jeep-sales/src/test/java/com/Promineotech/Jeep/controller/FetchJeepTest.java - Spring Tool Suite 4

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File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit X
OPtion.java Jeep.java JeepSales.java FetchJeepTe... BaseTest.java fetchJeepTe... JeepSalesCon... jeep-sales...
Finished after 5.274 seconds
Runs: 1/1 Errors: 0 Failures: 0
FetchJeepTest [Runner: JUnit 5] (0.517 s)
testThatJeepsAreReturnedWhenAvailMode
Console X
<terminated> FetchJeepTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.jdt.core\openjdk\hotspot\jre\full\win32\x86_64\17.0.4.v20220903-1038\jre\bin\java.exe (Sep 24, 2022: 12:04:29.992 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener - Before test class: context [DefaultTestContext@4013] 12:04:30.014 [main] DEBUG org.springframework.test.context.support.DependencyInjectionTestExecutionListener - Performing dependency injection for t
Failure Trace
:: Spring Boot ::
( v2.7.3 )
2022-09-24 12:04:30.452 INFO 11920 --- [ main] c.P.Jeep.controller.FetchJeepTest : Starting FetchJeepTest using Java 17.0.4.1 on DESKTO
2022-09-24 12:04:30.453 INFO 11920 --- [ main] c.P.Jeep.controller.FetchJeepTest : The following 1 profile is active: "test"
2022-09-24 12:04:31.837 INFO 11920 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 0 (http)
2022-09-24 12:04:31.849 INFO 11920 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-09-24 12:04:31.854 INFO 11920 --- [ main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-09-24 12:04:31.983 INFO 11920 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[] : Initializing Spring embedded WebApplicationContext
2022-09-24 12:04:31.983 INFO 11920 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed
2022-09-24 12:04:33.994 INFO 11920 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 56313 (http) with context
2022-09-24 12:04:34.014 INFO 11920 --- [ main] c.P.Jeep.controller.FetchJeepTest : Started FetchJeepTest in 3.957 seconds (JVM running
Type here to search
12:05 PM 9/24/2022

```

Java - jeep-sales/src/test/java/com/Promineotech/jeep/controller/FetchJeepTest.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit X Option.java OrderReques... JeepSales.java FetchJeepT... X BaseTestJava fetchJeepTe... JeepModel.java JeepSalesCon... X

Finished after 4.423 seconds

Runs: 1/1 Errors: 0 Failures: 0

FetchJeepTest [Runner: JUnit 5] (0.473 s)

Console X

```
<terminated> FetchJeepTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.jdt.core\openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (Sep 24, 2022, 13:17:45.654 [main] DEBUG org.springframework.boot.test.context.SpringBootTestTestContextBootstrapper - Skipping candidate TestExecutionListeners [org.springframework.boot.test.context.SpringBootTestTestExecutionListener@1344144])
```

13:17:45.654 [main] DEBUG org.springframework.boot.test.context.SpringBootTestTestContextBootstrapper - Skipping candidate TestExecutionListeners [org.springframework.boot.test.context.SpringBootTestTestExecutionListener@1344144]

13:17:45.655 [main] INFO org.springframework.boot.test.context.SpringBootTestTestContextBootstrapper - Using TestExecutionListeners: [org.springframework.boot.test.context.SpringBootTestTestExecutionListener@1344144]

13:17:45.661 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener - Before test class: context [DefaultTestContext@1344144]

13:17:45.681 [main] DEBUG org.springframework.test.context.support.DependencyInjectionTestExecutionListener - Performing dependency injection for test context [DefaultTestContext@1344144]

⋮

:: Spring Boot ::

(v2.7.3)

Failure Trace

2022-09-24 13:17:46.138 INFO 9872 --- [main] c.P.Jeep.controller.FetchJeepTest : Starting FetchJeepTest using Java 17.0.4.1 on DESKTOP-1V1PQHJ

2022-09-24 13:17:46.139 INFO 9872 --- [main] c.P.Jeep.controller.FetchJeepTest : The following 1 profile is active: "test"

2022-09-24 13:17:47.328 INFO 9872 --- [main] o.s.w.b.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 0 (http)

2022-09-24 13:17:47.328 INFO 9872 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]

2022-09-24 13:17:47.329 INFO 9872 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]

2022-09-24 13:17:47.330 INFO 9872 --- [main] o.a.c.c.C[Tomcat]@localhost:49854 : Initializing Spring Embedded WebApplicationContext

2022-09-24 13:17:47.476 INFO 9872 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationConfiguration initialization completed

2022-09-24 13:17:49.037 INFO 9872 --- [main] o.s.w.b.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 49854 (http) with context root [jeeps]

2022-09-24 13:17:49.050 INFO 9872 --- [main] c.P.Jeep.controller.FetchJeepTest : Started FetchJeepTest in 3.324 seconds (JVM running 1.8.0_312-b07)

http://localhost:49854/jeeps

http://localhost:49854/jeeps?model= WRANGLER&trim = Sports

The screenshot shows a Java IDE interface with the following details:

- Title Bar:** Java - jeep-sales/src/test/java/com/Promineotech/JEEP/controller/FetchJeepTest.java - Spring Tool Suite 4
- Toolbar:** File Edit Source Refactor Navigate Search Project Run Window Help
- Package Explorer:** Shows FetchJeepTest [Runner: JUnit 5] (0.549 s) and testThatJeepsAreReturnedWhenAvail.
- Code Editor:** Displays Java code for FetchJeepTest, specifically the testThatJeepsAreReturnedWhenAvail method. It includes annotations like @Test and @WithMockRestServiceConfiguration, and imports like Option.java, OrderReques...
- Console:** Shows the output of the test execution, including Spring Boot startup logs and the test results:

```
<terminated> FetchJeepTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.jdt.core\openjdk-hotspot\jre\fullwin32x86_64-17.0.4-202003-1038-releasenav.exe [Sep 24, 2022, 13:24:07.215 [main] DEBUG org.springframework.boot.test.context.SpringBootTestBootstrapper - Skipping candidate TestExecutionListener: [org.springframework.test.context.junit.jupiter.execution.JupiterTestExecutionListener@1c15b91]
```

Failure Trace:

```
java.lang.NullPointerException: Cannot invoke "com.Promineotech.JEEP.controller.FetchJeepTest.fetchJeepList(List)" because "this" is null
at java.base/java.util.ArrayList.forEach(ArrayList.java:125)
at java.base/java.util.ArrayList.forEach(ArrayList.java:138)
```

The screenshot shows the Java code for `JeepSalesController.java` in the Spring Tool Suite 4 interface. The code defines a controller with methods for fetching Jeeps and saving them. A test class, `FetchJeepTest`, is shown running with 1 pass and 1 error. The error is related to the `BasicJeepSalesController` not implementing the `fetchJeeps` method. The console output shows the application starting up with Tomcat and Spring Boot, and then failing to initialize due to the missing method implementation.

```
Java - jeep-sales/src/main/java/com/promineotech/jeep/controller/JeepSalesController.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
OrderRequests... FetchJeepTe... BaseTest.java fetchJeepTe... JeepSalesCon... jeep-sales... BasicJeepSal... ResponseStat...
16
17     @OpenAPIDefinition(info = @Info(title = " Jeep Sales Service"), servers = {
18         @Server(url = "http://localhost:8080", description = "local server.")})
19
20     @RequestMapping("/jeeps")
<
terminated> FetchJeepTest [JUnit] C:\Program Files\Development\sts-4.16.0.RELEASE\plugins\org.eclipse.jdt.core\org.eclipse.jdt.core_4.16.0.20220903-1038\jre\bin\javaw.exe (Sep 24, 2022, 9:29:44 PM)
:: Spring Boot :: (v2.7.3)

2022-09-24 21:29:50.331 INFO 17428 --- [           main] c.P.Jeep.controller.FetchJeepTest      : Starting FetchJeepTest using Java 17.0.4.1 on DESKTOP-E5G9
2022-09-24 21:29:50.332 INFO 17428 --- [           main] c.P.Jeep.controller.FetchJeepTest      : The following 1 profile is active: "test"
2022-09-24 21:29:51.533 INFO 17428 --- [           main] o.s.d.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 0 (http)
2022-09-24 21:29:51.552 INFO 17428 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-09-24 21:29:51.552 INFO 17428 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-09-24 21:29:51.691 INFO 17428 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2022-09-24 21:29:51.691 INFO 17428 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 13:202
2022-09-24 21:29:51.819 WARN 17428 --- [           main] ConfigServletWebServerApplicationContext : Exception encountered during context initialization - cancelling refresh attempt

The type BasicJeepSalesController must implement the inherited abstract method JeepSalesController.fetchJeeps(JavaModel, String)
Syntax error on token "", { expected after this token
String cannot be resolved to a variable

2022-09-24 21:29:51.822 INFO 17428 --- [           main] o.apache.catalina.core.StandardService : Stopping service [Tomcat]
2022-09-24 21:29:51.840 INFO 17428 --- [           main] ConditionEvaluationReportLoggingListener : Error starting ApplicationContext. To display the conditions report re-run your application with 'debug' enabled.
2022-09-24 21:29:51.875 ERROR 17428 --- [           main] o.s.boot.SpringApplication               : Application run failed

org.springframework.beans.factory.BeanCreationException: Error creating bean with name 'basicJeepSalesController' defined in file [C:\Program Files\Java\jeep-sa
The type BasicJeepSalesController must implement the inherited abstract method JeepSalesController.fetchJeeps(JavaModel, String)
Syntax error on token "", { expected after this token
String cannot be resolved to a variable

```

The screenshot shows the Eclipse IDE interface with the following details:

- Java - jeep-sales/src/main/java/com/promineotech/jeep/JeepSales.java - Spring Tool Suite 4**
- File Edit Source Refactor Navigate Search Project Run Window Help**
- OrderRequests...**, **JeepSales.java**, **FetchJeepTe...**, **BaseTest.java**, **fetchJeepTe...**, **JeepSalesCon...**, **jeep-sales...**, **BasicJeepSal...**
- Console X**: Displays the output of the failed JUnit test. The error message indicates that the test class [com.Promineotech.Jeep.control.FetchJeepTest] could not find a suitable configuration provider. It also mentions that the @TestExecutionListener annotation is not present for the class.
- Failure Trace**: Shows the stack trace of the failure.
- Java Platform**: Shows the Java version and build information: Java 17.0.4.1 on DESKTOP-E5G9S.
- Type here to search**: A search bar at the bottom of the interface.

The screenshot shows the Eclipse IDE interface with the following details:

- Java - jeep-sales/src/main/java/com/promineotech/jeep/JeepSales.java - Spring Tool Suite 4**
- File Edit Source Refactor Navigate Search Project Run Window Help**
- Package Explorer X**: Shows the project structure with **jeep-sales [boot] [devtools]**.
- jeep-sales.java**, **FetchJeepTe...**, **BaseTest.java**, **fetchJeepTe...**, **JeepSalesCon...**, **jeep-sales...**, **BasicJeepSal...**
- Console X**: Displays the output of the failed devtools test. The error message indicates that the application failed to start due to a port conflict (port 8000 was already in use).
- Java Platform**: Shows the Java version and build information: Java 17.0.4.1 on DESKTOP-E5G9S.
- Type here to search**: A search bar at the bottom of the interface.

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Zewdie Abera Bekele

Week 13 Spring coding assignment