**Camel Exception Handling**

1. Create a maven project:

mvn archetype:generate -DgroupId=com.camel -DartifactId=ApacheCamel -Dversion=1.0-SNAPSHOT -Dpackage=com.camel.hello.world -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

2. Make it to be importable into eclipse

mvn eclipse:eclipse -Dwtpversion=2.0

3. Add camel spring dependencies

|  |
| --- |
| <dependency>  <groupId>org.apache.camel</groupId>  <artifactId>camel-core</artifactId>  <version>2.17.1</version>  </dependency>  <!-- camel spring dependencies -->  <dependency>  <groupId>org.apache.camel</groupId>  <artifactId>camel-spring</artifactId>  <version>2.17.1</version>  </dependency>  <dependency>  <groupId>org.springframework</groupId>  <artifactId>spring-context</artifactId>  <version>4.2.6.RELEASE</version>  </dependency>  <!-- camel spring dependencies --> |

4. Complete pom.xml

|  |
| --- |
| <project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*  xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd"*>  <modelVersion>4.0.0</modelVersion>  <groupId>com.camel</groupId>  <artifactId>ApacheCamel</artifactId>  <packaging>jar</packaging>  <version>1.0-SNAPSHOT</version>  <name>ApacheCamel</name>  <url>http://maven.apache.org</url>  <dependencies>  <dependency>  <groupId>junit</groupId>  <artifactId>junit</artifactId>  <version>3.8.1</version>  <scope>test</scope>  </dependency>  <!-- http://mvnrepository.com/artifact/org.apache.camel/camel-core -->  <dependency>  <groupId>org.apache.camel</groupId>  <artifactId>camel-core</artifactId>  <version>2.17.1</version>  </dependency>  <!-- camel spring dependencies -->  <dependency>  <groupId>org.apache.camel</groupId>  <artifactId>camel-spring</artifactId>  <version>2.17.1</version>  </dependency>  <dependency>  <groupId>org.springframework</groupId>  <artifactId>spring-context</artifactId>  <version>4.2.6.RELEASE</version>  </dependency>  <!-- camel spring dependencies -->  </dependencies>  <build>  <pluginManagement>  <plugins>  <plugin>  <groupId>org.apache.maven.plugins</groupId>  <artifactId>maven-compiler-plugin</artifactId>  <version>3.5.1</version>  <configuration>  <source>1.8</source>  <target>1.8</target>  </configuration>  </plugin>    <plugin>  <groupId>org.apache.camel</groupId>  <artifactId>camel-maven-plugin</artifactId>  <version>2.17.1</version>  <!-- the file must be in the classpath -->  <configuration>  <applicationContextUri>camel-spring.xml</applicationContextUri>  </configuration>  </plugin>    </plugins>  </pluginManagement>  </build>  </project> |

5. ExceptionThrowingBean.java

|  |
| --- |
| **package** com.camel.exception.handling;  **import** org.apache.camel.Exchange;  **public** **class** ExceptionThrowingBean {  **public** String testBean(Exchange exchange) {  System.***out***.println("ExceptionThrowingBean.testBean()");  **return** "failed";  }  } |

6. ExceptionBean2.java

|  |
| --- |
| **package** com.camel.exception.handling;  **import** org.apache.camel.Exchange;  **public** **class** ExceptionBean2 {  **public** String testBean(Exchange exchange) {  System.***out***.println("ExceptionBean2.testBean()");  **return** "success";  }  } |

7. ExceptionRouteBuilder.java

|  |
| --- |
| **package** com.camel.exception.handling;  **import** org.apache.camel.builder.RouteBuilder;  **public** **class** ExceptionRouteBuilder **extends** RouteBuilder {  @Override  **public** **void** configure() **throws** Exception {  from("direct:bean1").bean(**new** ExceptionThrowingBean()).end();  from("direct:bean2").bean(**new** ExceptionBean2()).end();  }  } |

8. App.java

|  |
| --- |
| **package** com.camel.exception.handling;  **import** org.apache.camel.CamelContext;  **import** org.apache.camel.Exchange;  **import** org.apache.camel.Message;  **import** org.apache.camel.ProducerTemplate;  **import** org.apache.camel.impl.DefaultCamelContext;  **import** org.apache.camel.impl.DefaultExchange;  **import** org.apache.camel.impl.DefaultMessage;  **public** **class** App {  **public** **static** **void** main(String[] args) **throws** Exception {  Message defaultMessage = **new** DefaultMessage();  CamelContext context = **new** DefaultCamelContext();  context.addRoutes(**new** ExceptionRouteBuilder());  context.start();  Exchange exchange = **new** DefaultExchange(context);  exchange.setIn(defaultMessage);  ProducerTemplate template = context.createProducerTemplate();  template.send("direct:bean1", exchange);  String routeResult1 = exchange.getIn().getBody(String.**class**);  System.***out***.println("Bean 1 Result: " + routeResult1);  **if** (!"failed".equalsIgnoreCase(routeResult1))  template.send("direct:bean2", exchange);  Thread.*sleep*(1000 \* 60 \* 2);  context.stop();  }  } |

9. Output:

