**Camel Object As Exchange Body**

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

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| --- |
| <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

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| --- |
| <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. Employee.java

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| --- |
| **package** com.camel.object.as.body;  **public** **class** Employee {  **private** String name;  **private** String designation;  **private** String location;  **public** Employee() {  }  **public** Employee(String name, String designation, String location) {  **super**();  **this**.name = name;  **this**.designation = designation;  **this**.location = location;  }  **public** String getName() {  **return** name;  }  **public** **void** setName(String name) {  **this**.name = name;  }  **public** String getDesignation() {  **return** designation;  }  **public** **void** setDesignation(String designation) {  **this**.designation = designation;  }  **public** String getLocation() {  **return** location;  }  **public** **void** setLocation(String location) {  **this**.location = location;  }  } |

6. ObjectAsBean.java

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| --- |
| **package** com.camel.object.as.body;  **import** org.apache.camel.Exchange;  **public** **class** ObjectAsBodyBean {  **public** String testBean(Exchange exchange) {  System.***out***.println("ObjectAsBean.testBean");  Employee employee = exchange.getIn().getBody(Employee.**class**);  System.***out***.println("Emp Name: " + employee.getName() + ", Emp Desig: " +  employee.getDesignation()+ ", Emp Loc: " + employee.getLocation());  **return** "success";  }  } |

7. ObjectAsBodyRouteBuilder.java

|  |
| --- |
| **package** com.camel.object.as.body;  **import** org.apache.camel.builder.RouteBuilder;  **public** **class** ObjectAsBodyRouteBuilder **extends** RouteBuilder {  @Override  **public** **void** configure() **throws** Exception {  System.***out***.println("ObjectAsBodyRouteBuilder.configure()");  from("direct:start").bean(**new** ObjectAsBodyBean()).end();  }  } |

8. App.java

|  |
| --- |
| **package** com.camel.object.as.body;  **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 {  // create an Employee object  Employee employee = **new** Employee("john", "architect", "US");  // create camel message and add employee object as body to message  Message defaultMessage = **new** DefaultMessage();  defaultMessage.setBody(employee);  // create camel context, add route(s) to it and start camel context  CamelContext context = **new** DefaultCamelContext();  context.addRoutes(**new** ObjectAsBodyRouteBuilder());  context.start();  // create Exchange and add camel message to it  Exchange exchange = **new** DefaultExchange(context);  exchange.setIn(defaultMessage);  ProducerTemplate template = context.createProducerTemplate();  template.send("direct:start", exchange);  Thread.*sleep*(1000 \* 60 \* 2);  // stop camel context  context.stop();  }  } |

9. Output:

