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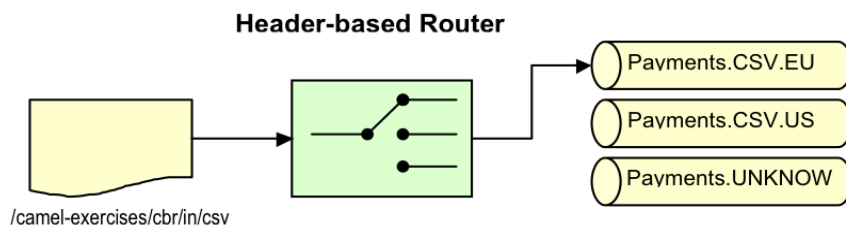
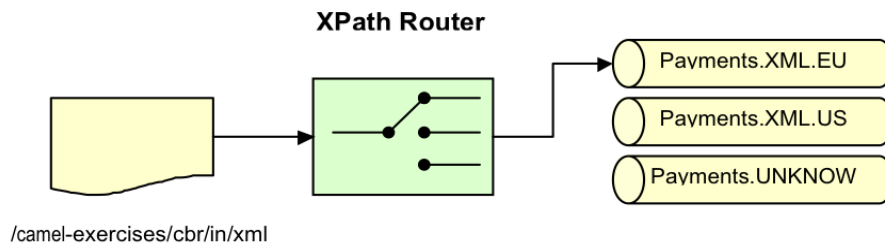
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3. Content Based Router

3.1 Review of Solution

3. Content Based Router

In this exercise, we will build and deploy some content-based routers. The first router uses an XPath query to perform routing decisions on XML payload. The second router uses a header  containing the name of the file that initiates the route  to perform routing.



3.1 Review of Solution

The files for this exercise are located in the directory camel-exercises-cbr/. Before beginning the exercise, locate and open each of the files in the table below and preview the file as instructed.

File	Note	Check
pom.xml	Look at each of the dependencies in the <dependencies> section. Do you understand why each is required?	?
	Examine the configuration instructions for the maven-bundle-plugin. Do you understand how the OSGi bundle is being created?	?
RouteByCurrencyRouter.java	Examine the router; do you understand the flow of control?	?
	Why are the InitializingBean and DisposableBean interfaces implemented?	?
RouteByFileNameRouter.java	Examine the router; do you understand the flow of control?	?
bundle-context.xml	Do you understand how each route is being initialized?	?
camelContext.xml	Note how this file simply includes the bundle-context.xml file. This is to allow the camel:run plugin to re-use Spring configuration while running outside of an OSGi container.	?

3.2 Building and Running the Solution

To build the solution use 'mvn install'; to run the solution from the command-line, use 'mvn camel:run'.

3.3 Optional: Deploying the Solution in Servicemix 4

To deploy the solution into Servicemix 4, install the 'camel-exercises-cbr' feature from the ServiceMix shell if you installed the entire exercise feature beforehand. Otherwise follow the readme.txt file.

```
karaf@root> features:install camel-exercises-cbr
```

3.4 Validating the Solution

The validation here is for the deployment inside Servicemix 4 but it works the same way when started with but then you don't need to copy any files and the output directory would be inside `./target/test-classes/camel/out` directory. The XPath router listens on the directory `/camel-exercises/cbr/xml/in` for XML files. Copy a sample file from the `./target/test-classes/camel/in/xml` directory into `/camel-exercises/cbr/xml/in`. It should disappear after a short interval, and be processed by the route and new files should appear in `/camel-exercises/cbr/xml/out` after a few seconds.

The header-based router listens on the directory `/camel-exercises/cbr/csv/in`. Copy a sample file from the `./target/test-classes/camel/in/csv` directory. Again, it should 'disappear' after a short interval, and be processed by the route and new files should appear in `/camel-exercises/cbr/csv/out` after a few seconds.