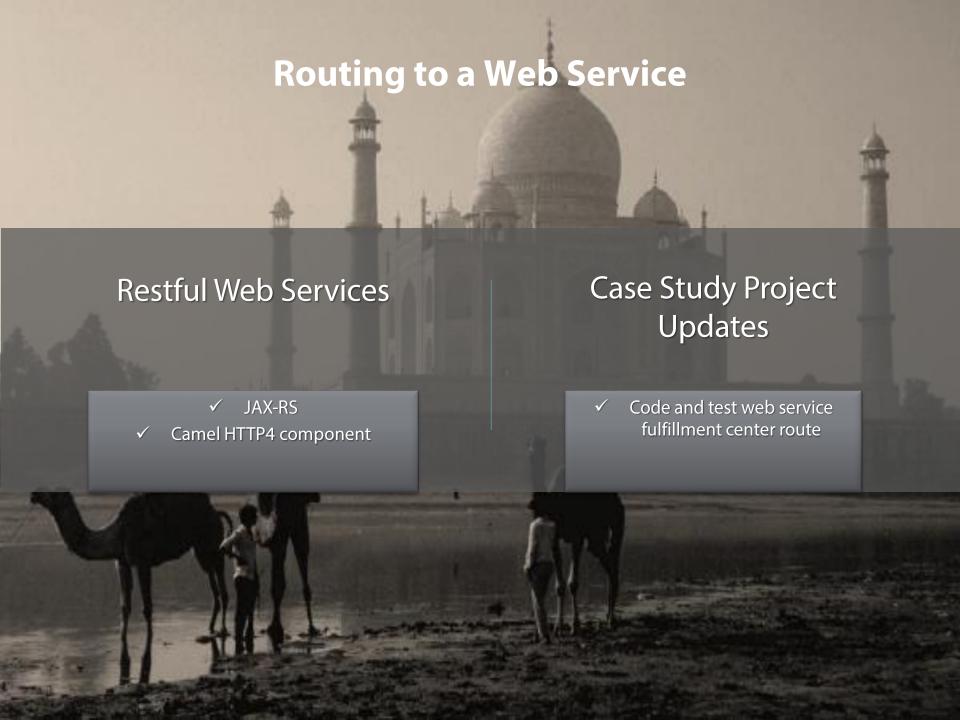
Routing to a Web Service

Michael Hoffman @mhi_inc







- Java specification for REST
- CRUD transactions
 - POST, GET, PUT and DELETE

JAX-RS Specification

- URI to define the service path
 - http://www.server.com/service/orders/1
- **Specification** POJOs for request and response
 - □ JSON format

```
{"orders":[{"firstName":"Tester","lastName":"Test",
"email":"test@test.com","orderNumber":"1234","time0
rderPlaced":"Dec 23, 2014 5:38:03
PM","orderItems":[{"itemNumber":"1234","price":12.3
3,"quantity":5}]}]
```

Camel REST-ful Web Service Routing

- HTTP and HTTP4 component
- CXF component
- REST component and REST DSL

Camel HTTP4 Component

HTTP4 library

camel-http4

UR

http4:[hostname][:port][/resourceUri][?options]

HTTP request and response

- HTTP method
- Message headers
- Response in the out message of the exchange
- Response code

Camel test libraries

- camel-test
- camel-test-spring

Camel Route Testing

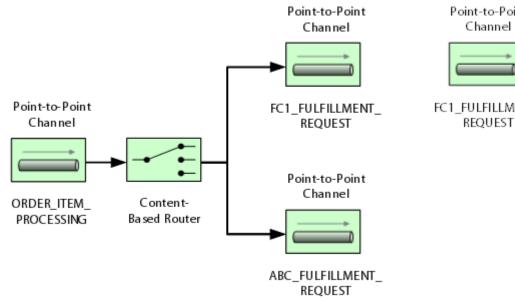
Camel test support classes

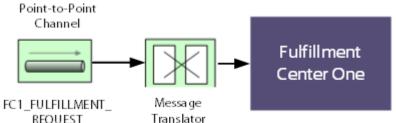
- CamelTestSupport
- CamelSpringJUnit4ClassRunner /
 CamelSpringDelegatingTestContextLoader

Mock component

- mock:[mockEndpointName]
- Annotation support

Case Study Project – RESTful Web Service





Fulfillment Center One Service

- Fulfillment Center One web service project
 - http://bit.ly/145KAAY
- Service URL
 - http://localhost:8090/services/orderFulfillment/pr ocessOrders
- Poster

Fulfillment Center One Route

- Pom.xml
- Service request and response
- Message translator
 - □ Convert XML to JSON
- Test class
- Integration config

