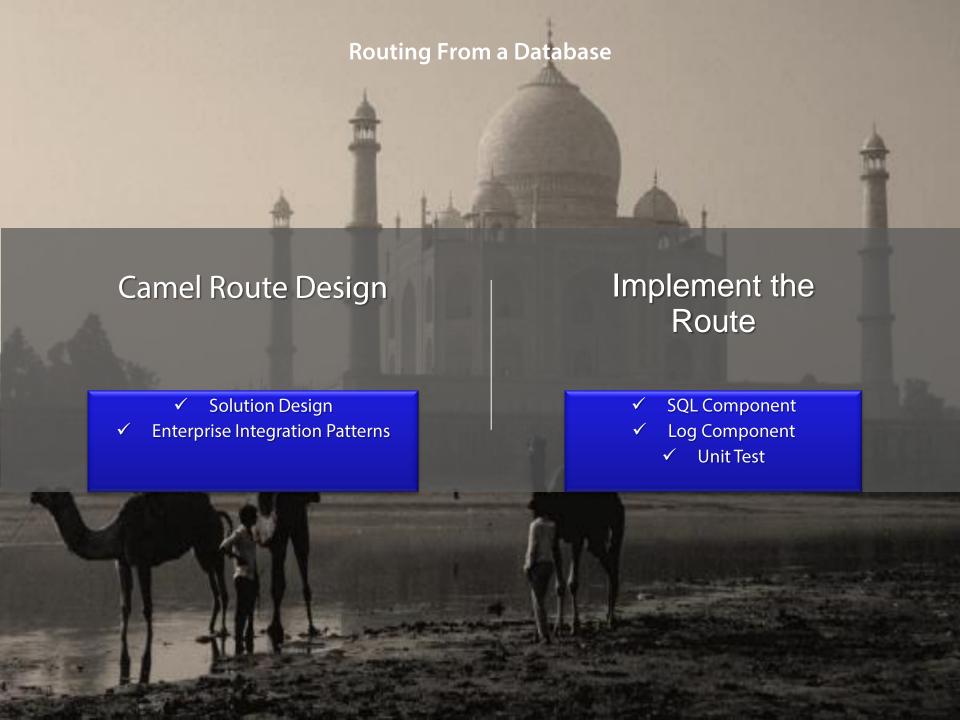
Routing From a Database

Michael Hoffman @mhi_inc







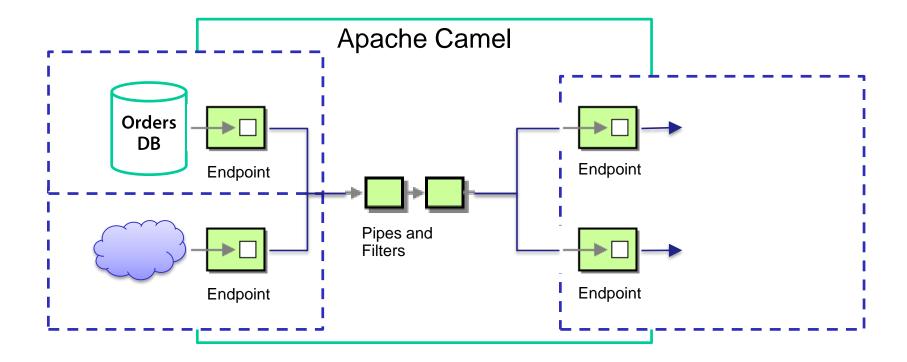
Requirements

Case Study Project

Website for order fulfillment

- Fulfillment processor
 - Retrieves orders from a database
 - Sends orders to fulfillment center in a file
- New Requirements
 - New fulfillment center
 - New source for orders
 - Faster order processing

Case Study – Order Fulfillment

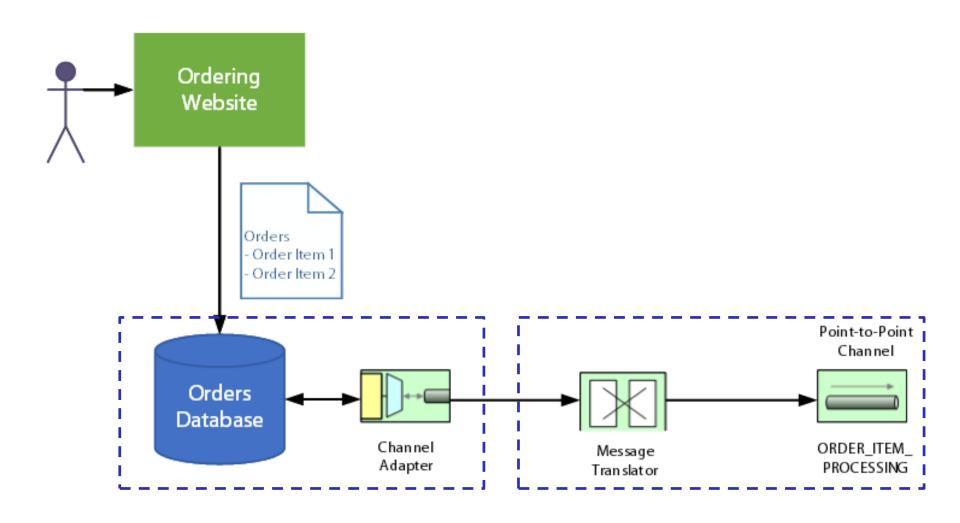


Integration Design

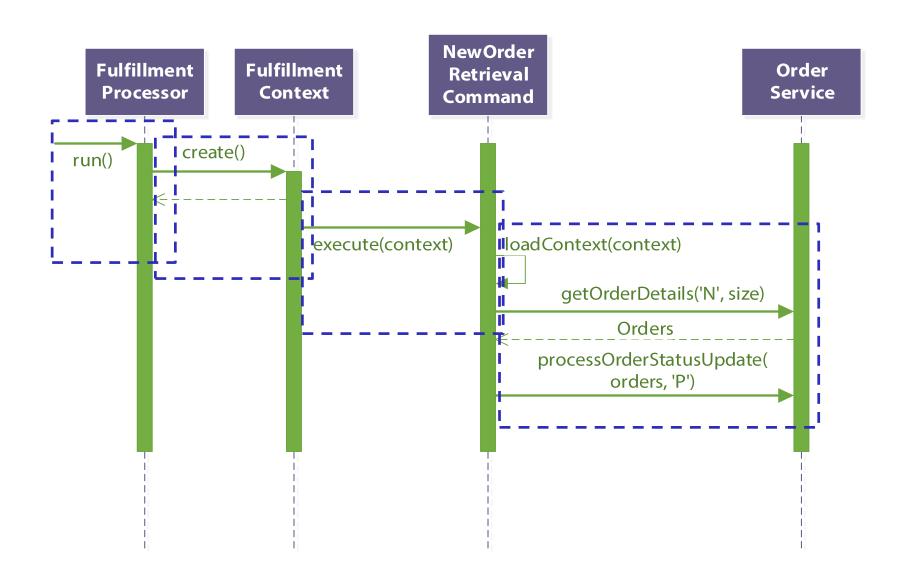
Case Study Project Routes

- Message channel
- Message format and transformation

Case Study – Order Item Processing Route



Current Case Study Processing



Database Components

Camel Components

- SQL
 - Execute SQL queries
 - Uses Spring JDBC
- JDBC
 - Execute SQL queries
 - Uses standard JDBC API
- List of Camel components
 - http://camel.apache.org/components.html

SQL Component

Camel Components

- camel-sql library
- Initialize with DataSource
- URI syntax
 - sql:[sql-statement][?options]
- Option: consumer.onConsume
- Polls the database
 - Highly configurable

Log Component

Camel Components

- camel-core library
- URI syntax
 - log:[logging category][?options]
- Option: level

Routing Rule Implementation

```
from(
   "sql:"
          + "select id from orders.\"order\" where status =
   + OrderStatus.NEW.getCode()
   + "?"
   + "consumer.onConsume=update orders.\"order\" set status =
   + OrderStatus.PROCESSING.getCode()
   + "' where id = :#id")
.to("log:com.pluralsight.orderfulfillment.order?level=INFO");
```

Camel Route Testing

Camel camel-test library Components jUnit

Hawt.io

