Camel - REST

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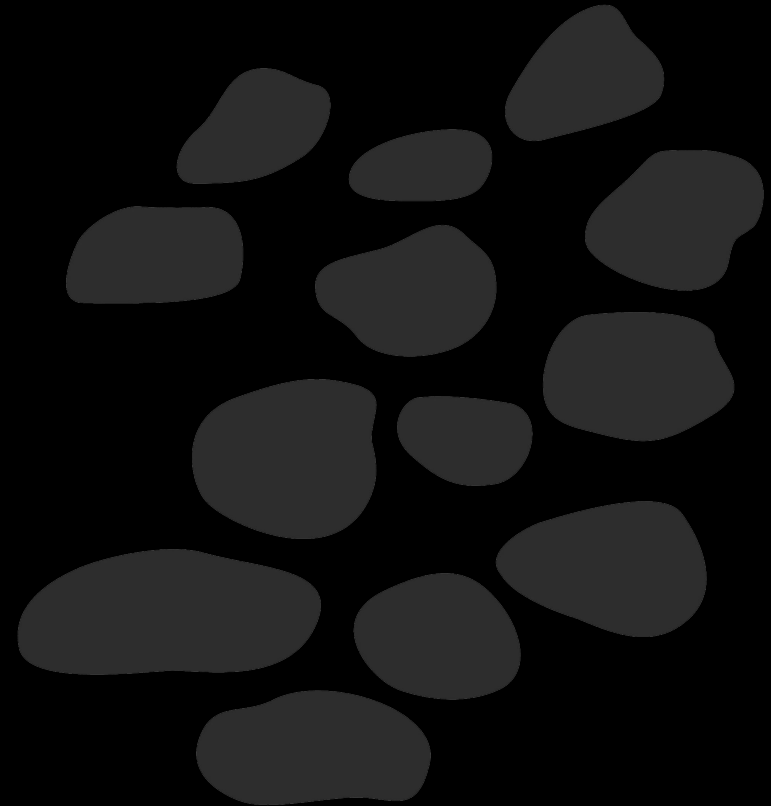
Why?

// Define REST interfaces.

// Allow end users to create REST services using a REST style with verbs such as get, post, delete etc.

How?

// Include maven dependencies

// Configure Quarkus

// Implement REST Endpoint

```xml
<dependency>
        <groupId>org.apache.camel.quarkus</groupId>
        <artifactId>camel-quarkus-rest</artifactId>
</dependency>
<dependency>
        <groupId>jakarta.ws.rs</groupId>
        <artifactId>jakarta.ws.rs-api</artifactId>
</dependency>
```

Code/Syntax

// Configure Quarkus

```
restConfiguration().bindingMode(RestBindingMode.json)
        .dataFormatProperty("prettyPrint", "true");
```

// Write your REST service

```
rest("/best/")
        .post()
        .consumes(MediaType.APPLICATION_JSON)
        .type(Order.class)
        .id("best_rest")
        .to("direct:rest_order_input");
```

```
from("direct:rest_order_input")
    .setHeader(Exchange.HTTP_RESPONSE_CODE, constant(Response.Status.ACCEPTED.getStatusCode()))
    .setBody(constant("OK")
```

// Configure client side

```
ENTRY_REST_ENDOINT_URI = "rest://post:/best/?host=localhost:8081"
```

Example

```java
public final class EntryRouteBuilder extends RouteBuilder {
  public static final String ORDER_FILE_ENDOINT_URI = "file:target/messages/order";
  public static final String ENTRY_DIRECT_ENDOINT_URI = "direct://order_entry";
  public static final String ENTRY_REST_ENDOINT_ROUTE_ID = "rest://order_entry";
  @Override
  public void configure() {
    restConfiguration().bindingMode(RestBindingMode.json);
    rest("/best/")
      .post().routeId(ENTRY_REST_ENDOINT_ROUTE_ID)
      .type(Order.class)
      .to(ENTRY_DIRECT_ENDOINT_URI);

    from(ENTRY_DIRECT_ENDOINT_URI).routeId(ENTRY_DIRECT_ENDOINT_URI)
      .to("log:ENTRY_DIRECT_ENDOINT_URI?level=INFO")
      .marshal().json(true)
      .to(ORDER_FILE_ENDOINT_URI)
      .setHeader(Exchange.HTTP_RESPONSE_CODE, constant(Response.Status.ACCEPTED.getStatusCode()))
      .setBody(constant("OK"));
  }
}
```

Exercise best_11_1_rest_server