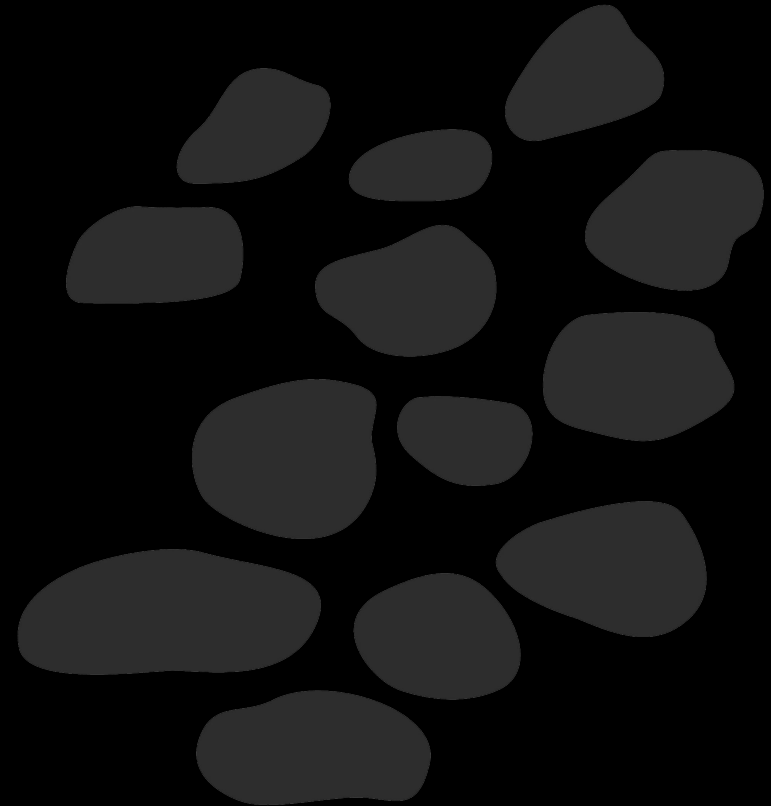


Camel - REST



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 REST

// Implement REST

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

Example

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

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

Exercise best_11_1_rest_server