

List of used Apache Camel modules

Customer Care Center

written as part of the lecture

Workflow Modeling and Proces Management – 188.924

advised by

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1 Used Apache Camel Modules

aggregator

We implemented a custom aggregation strategy where two exchanges are combined. Due to the expression constanst(true), the custom FileAggregationStrategy is called for each message. The custom strategy concatenates the old with the new body, separated by two new lines.

Appears in classes: BackupLogsRoute, FileAggregationStrategy

bean

Instead of processors we used beans for the computation of the business logic $Appears\ in\ classes:\ MailRoute,\ FacebookRoute,\ TwitterRoute,\ EmployeeSimulationRoute,\ BackupLogsRoute$

camel-core (direct-queue)

Direct queues are used to split the routes in smaller parts and exchange different messages between these parts

 $Appears\ in\ classes:\ Employee Simulation Route,\ Facebook Route,\ Mail Route,\ Twitter Route$

camel-core (file)

File is used to write logs/backups of requests to files

Appears in classes: MailRoute, TwitterRoute, FacebookRoute, CustomRouteBuilder, Back-LogsRoute,

camel-core (seda-queue)

This kind of queue allows asynchronous invocation and is mainly used in context with the xml conversion and the dropbox upload as well as file output of log files. Multiple concurrent consumers speed the process up (multiple parallel threads)

 $Appears\ in\ classes:\ BackupLogsRoute,\ FacebookRoute,\ MailRoute,\ TwitterRoute$

camel-dropbox

Is used to save logs and messages in xml format to dropbox

 $Appears\ in\ classes:\ MailRoute,\ BackupLogsRoute,\ FacebookRoute,\ TwitterRoute$

camel-facebook

New Facebook requests are polled and existing ones answered $Appears\ in\ classes:\ FacebookRoute,\ EmployeeSimulationRoute$

camel-google-calendar

For every new business case an event in google calendar is created Appears in classes: MailRoute, FacebookRoute, TwitterRoute

camel-mail

Customer requests which were sent per mail are polled and answered

 $Appears\ in\ classes:\ MailRoute,\ Employee Simulation Route$

camel-mongodb

Besides the backup in dropbox business cases are also saved to mongodb

 $Appears\ in\ classes:\ MailRoute,\ FacebookRoute,\ TwitterRoute,\ EmployeeSimulationRoute$

camel-quartz2

Time-planner used to regularly answer and close facebook, mail and twitter requests as well as upload log files

 $Appears\ in\ classes:\ BackupLogsRoute,\ EmployeeSimulationRoute$

camel-twitter

Customer tweets are polled and answered

 $Appears\ in\ classes:\ TwitterRoute,\ EmployeeSimulationRoute$

camel-velocity

Is used to create the template for the mail auto-reply function

 $Appears\ in\ classes:\ MailRoute$

content enricher

Behaviour is implemented by a custom bean EmployeeFacebookSimulationProcessor, which enriches the header of the message by the FacebookPostID, $Post\ message$ and the corresponding FacebookBusinessCase. The same behaviour is implemented for the TwitterBusinesCase $Appears\ in\ classes$: EmployeeSimulationRoute

filter

The filter is used to screen incoming mails if they contain "spam" in the message body Appears in classes: MailRoute

log component

Used to log incoming messages to the console

Appears in classes: MailRoute, FacebookRoute, TwitterRoute

log eip

Used to log different things (e.g. successful upload to dropbox)

 $Appears\ in\ classes:\ MailRoute,\ TwitterRoute,\ FacebookRoute,\ EmployeeSimulationRoute$

message translator

Incoming messages are marshalled into xml files

 $Appears\ in\ classes:\ MailRoute,\ FacebookRoute,\ TwitterRoute$

parallelprocessing

Was used to address multiple receivers (parallel sending)

Appears in classes: MailRoute, FacebookRoute, TwitterRoute

multicast

See parallelprocessing

 $Appears\ in\ classes:\ MailRoute,\ FacebookRoute,\ TwitterRoute$

polling

Polling is used to continuously fetch new messages in regular intervals

Appears in classes: FacebookRoute, TwitterRoute

recipientlist

In combination with "simple" recipientLists are used to dynamically determine the target file name for the files which are uploaded to dropbox

Appears in classes: MailRoute, BackupLogsRoute, FacebookRoute, TwitterRoute

splitter

The splitter component is used for splitting a *collection of FacebookBusinessCases* retrieved from the MongoDB, which get processed sequentially by the *MongoDbBusinessCaseProcessor* bean.

Appears in classes: FacebookRoute

transformer

The transform component is used at the global exception routes, transforming (aka setting the body of the out message) to a String representation of the corresponding handled *exception message*, which gets logged in the corresponding folder structure later on.

Appears in classes: CustomRouteBuilder

wiretap

Wiretap is used to forward a message to two destinations (often to write to a queue to write content in a file and upload it to e.g. dropbox in the other path)

Appears in classes: MailRoute, BackupLogsRoute, EmployeeSimulationRoute, TwitterRoute