

LAB 13: QUARKUS REACTIVE REVIEW

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Github Repo: https://github.com/joedayz/quarkus-bcp-2025.ait

- 1. Abre el proyecto reactive-review-start.
 - 1. Open the application located in the \sim /D0378/reactive-review directory with an editor, such as VSCodium or vim.
 - 1.1. Navigate to the ~/D0378/reactive-review directory.



1.2. Open the project with an editor, such as VSCodium or vim.

[student@workstation reactive-review]\$ codium .

- 2. Add the required dependencies to create a reactive endpoint that stores data in a PostgreSQL database, and sends events to Apache Kafka.
- 3. Configure the application to use four channels.
 - An incoming channel that consumes SpeakerWasCreated events from the new-speakers-in channel. Use the speaker-was-created Kafka topic to consume events. Set the offset.reset property of the incoming channel to earliest, and deserialize the incoming messages with the com.redhat.training.serde.SpeakerWasCreatedDeserializer class.



- An outgoing channel that publishes SpeakerWasCreated events to the new-speakersout channel. Use the speaker-was-created Kafka topic to publish events.
- An outgoing channel that publishes EmployeeSignedUp events to the employees-out channel. Use the employees-signed-up Kafka topic to publish events.
- An outgoing channel that publishes UpstreamMemberSignedUp events to the upstream-members-out channel. Use the upstream-members-signed-up Kafka topic to publish events.
- 4. Create a reactive POST endpoint with the following requisites:
 - · Receives a Speaker object as payload.
 - · Stores the payload in the database by using a transaction.
 - · Sends a SpeakerWasCreated event to the new-speakers-out channel.
 - Returns a 201 HTTP response that includes in the location response header the URI of the inserted element. The URI must follow the /speakers/{id} pattern.
- 5. Create an event processor that consumes and filters SpeakerWasCreated events.
 - If the affiliation is RED_HAT, then send a EmployeeSignedUp event to the employeesout channel.
 - If the affiliation is GNOME_FOUNDATION, then send a UpstreamMemberSignedUp event to the upstream-members-out channel.
 - Always acknowledge the message.
- Execute the tests to validate the code changes. Optionally, you can use the Swagger UI to manually validate the changes before executing the tests.

Evaluation

As the student user on the workstation machine, use the lab command to grade your work. Correct any reported failures and rerun the command until successful.

[student@workstation reactive-review]\$ lab grade reactive-review

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enjoy!

Jose