

Goal of the POC: Enable two users to communicate via websockets and ActiveMQ. Ensure message persistence.

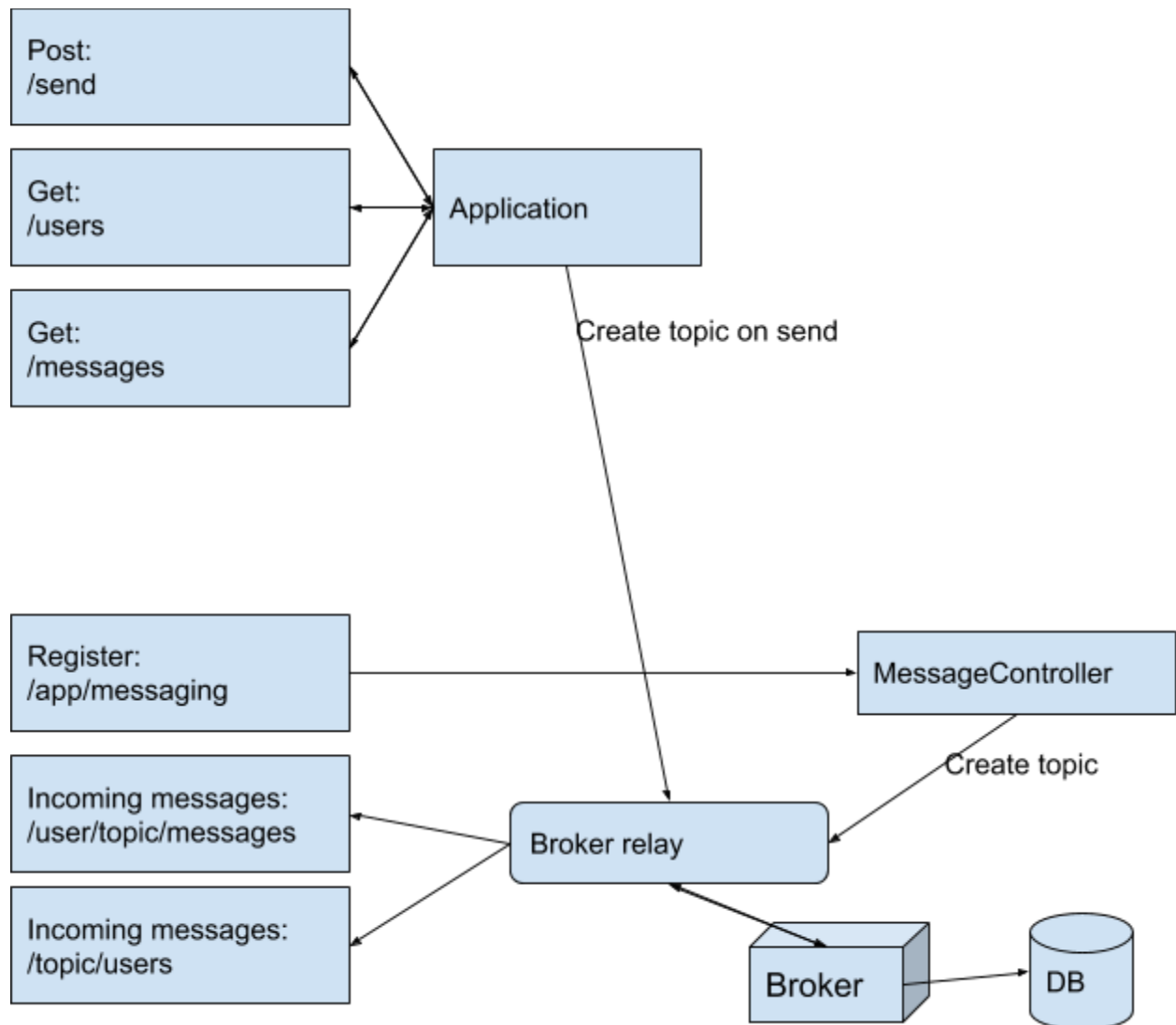
Flow of the application:

1. User logs in and /app/messaging is triggered to indicate that a user has joined
2. Other users get notified that a new user has joined via /topic/users
3. User chooses another user from a list and send a message. POST /send is done and a topic is created on backend side
4. Receiver gets the message via /user/topic/messages

All of the messages are persisted to a database in case the broker should fall down.

To validate the state:

1. GET /messages returns all of the messages sent



Testing strategy

In general I found it very hard to test this application. I could not get integration tests working with ActiveMQ, Apache Camel and MySQL.

Only tests created are integrations tests with Spring Test Context framework. For integration tests I spin up a MySQL docker instance in order to test against true database endpoint.