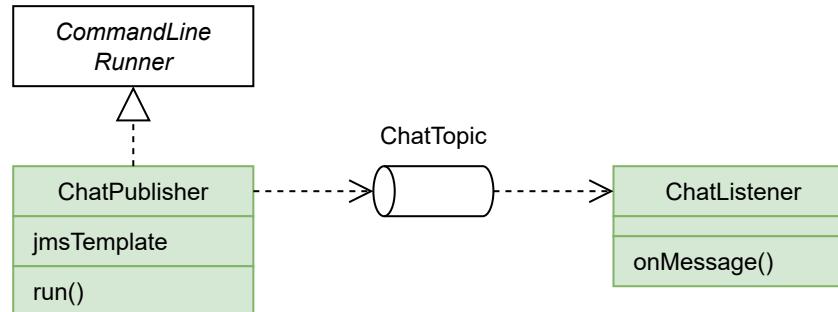


Spring Core

Exercise: Chat Application (Basic Messaging)



1. Run the ActiveMQ Classic (<https://activemq.apache.org/>) message broker:

```
docker run --name activemq -p 8161:8161 -p 61616:61616 -d apache/activemq
```

2. Create a Spring application with the starters `spring-boot-starter-activemq` and `spring-boot-starter-json` as dependencies.

3. Define application properties that provide the URL of the ActiveMQ Classic message broker and enable the publish-subscribe domain:

```
spring.activemq.broker-url=tcp://localhost:61616
spring.jms.pub-sub-domain=true
```

4. Implement a publisher and a listener component that allow a user to send text messages to and receive text messages from the topic `ChatTopic`.

5. Add a property `user` to the messages that identifies the sender of the message and display it.
6. Define a message selector such that the sender's own messages are not received.

Solution (<https://gitlab.ti.bfh.ch/cas-sad-hs25/spring-core/chat/-/commits/main>)

© Stephan Fischli, <https://distsys.bfh.ch/fischli> (<https://distsys.bfh.ch/fischli>)