Dokumentation:

The Spring Boot app receives the customer ID entered in JavaFX via an HTTP request (GET). The program then sends the data read from the Rabbit MQ stream ECHO\_IN\_QUEUE\_ID.

The data read into the ECHO\_IN\_QUEUE\_ID is then taken by the Data Collection dispatcher. This dispatcher is connected to a database, which contains the URL as well as the longitude and latitude values of each current location. The System is concepted like this, so that if needed other stations can be easily added and the current system can be expanded. A Entity is created to extract the values for each station, which are then stored in a list. The Collection dispatcher goes through each element of the list to extract the url so that the other components can also access the necessary data. For each row in the list a new queue is defined which contains the db-url aswell as the current customer id,. This is then sent to the ECHO\_IN\_URL\_ID. Another queue is sent to the Data collection receiver, so that the program doesn’t have to define the customer id in each step.

The Station data collector is