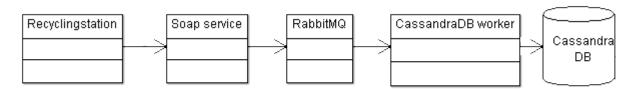
Bachelor Project

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1 Goal

The goal of this project is to design and build a system that collects transactions from recycling stations and puts them in a database. Also to build a website which can display data that would be relevant for a user of the system.

2 Design



This design is built in such way that it can be scaled and later be replaced or work in conjunction with something written a completely different programming language. This is why there is a queue in between the soapservice and the database worker.

3 Interfaces

3.1 soap

Because of this interfaces or kept generic or text based (encoded in UTF-8). To deliver something to the soap interface you can either deliver the whole string at once via the addTransactiontext operation of course there is a specific format that should be followed. The format is: "<userID:UUID>, <locationID:UUID>, <timestamp:long> , <paper:int>, <plastic:int>, <glas:int>, <metal:int>". It can also be send in separate parts. The setup is similar but all the parts are separate in the soap message.

3.2 RabbitMQ

The RabbitMQ listener expects that all incoming data is a single string encoded in UTF-8. It's expects the data in the format as the string interface of soap.