# Developer Guide For MessageQueue

## Common

* 1. **Enums**

Exception codes and actionTypes are implemented as enum. Moving these objects to DB will be considered

* 1. **Exception**

Business and runtime exceptions implemented. For now all exceptions are logged when created. It will be parametrized

* 1. **Serializer**

Dto serializer implemented for Kafka.

* 1. **Util**

Static util methods implemented in this package

* 1. **Validator**

Message and property validators.

## Dto

* 1. **MessageDTO**

MessageDTO implemented as described in sds.

## Manager

* 1. **Consumer**

ConsumerManager implemented with init and helper methods.

3configurable threadpool works for sms, email and push

* 1. **Producer**

Two producer manager implemented for inMemoryQueue and Kafka. Managing from properties

* 1. **messageSender**

Managers implemented for sms, email and push. Managing by a factory with respect to actionType of event.

## Service

* 1. **Consumer**

Service for start consumers.

* 1. **Producer**

Service for send event to producer.

## Properties

Kafka consumer producer conf, logging conf, threadpools conf are handled by property files. They can moved to DB.

## Tests

Unit tests are implemented in Test packages. Integration and automation test will be implemented.

## Dependencies

Project is started as maven. Jdk 1.8 is needed for kafka client 2.6

Apache.common, kafka, slf4j, jackson are needed.

For working with kafka on local machines, zookeeper and kafka servers are needed.

## Repository

## Open issues

* 1. **DB**

Properties and enums can be moved to db.

Audit data needed for sent/not sent messages

* 1. **Logging**

Logging will be refactored.

* 1. **Versioning**

Versioning is not considered for now.