#### **Developer Documentation**

Decision Records / Use Citation Key for Grouping Chat Messages

# Use Citation Key for Grouping Chat Messages

#### Context and Problem Statement

As we store chat messages not inside a BibTeX entry in bib file, the chats file is represented as a map to BibTeX entry and a list of messages. We need to specify the key of this map. Turns out, it is not that easy.

#### **Decision Drivers**

- The key should exist for every BibTeX entry
- The key should be unique along other BibTeX entries in one library file
- It is assumed that the key does not change at run-time, between launches of JabRef, and should be cross-platform (most important)

# **Considered Options**

- BibEntry Java object
- BibEntry's id
- BibEntry's citation key
- BibEntry's ShareId

### **Decision Outcome**

Chosen option: "BibEntry's citation key", because this is the only choice that complies to the third point in Decision Drivers.

## Positive Consequences

- Easy to implement
- Cross-platform

## **Negative Consequences**

- If the citation key is changed externally, then the chats file becomes out-of-sync
- Additional user interaction in order to make the citation key complain the first and second points of Decision Drivers

## Pros and Cons of the Options

#### BibEntry Java object

Very bad, because it works only at run-time and is not stable.

#### BibEntry'S id

JabRef stores a unique identifier for each BibEntry. This identifier is created on each load of a library (and not stored permanently).

Very bad, for the same reasons as BibEntry Java object.

## BibEntry's citation key

- Good, because it is cross-platform, stable (meaning stays the same across launches of JabRef)
- Bad, because it is not guaranteed that citation key exists on BibEntry, and that it is unique across other BibTeX entries in the library

#### BibEntry'S ShareId

<u>ADR-0027</u> describes the procedure of synchronization of a Bib(La)TeX library with a server. Thereby, also local and remote entries need to be kept consistent. The solution chosen there is that the **server** creates a UUID for each entry.

This approach cannot be used here, because there is no server running which we can ask for an UUID of an entry.

## More Information

Refer to issue #160 in JabRef main repository

ADR-038 takes another option, because it re-generates the index at each start of JabRef.