Code Smells

Bellow are the 3 code smells I identified as was delegated to during the team meetings.

The first Code Smell Identified was of type: "Duplicate Code".

```
if ((i + 1) < layoutEntries.size()) {
    if (layoutEntries.get(i + 1).doLayout(bibtex, database).trim().isEmpty()) {
        i++;
        previousSkipped = true;
        continue;
}</pre>
```

This code smell is located in the following path: jabref -> src -> main -> java -> org. jabref -> logic -> layout -> format -> LayoutEntry.java (lines 299 through 304).

In this case the collapsible *if* statements in line 299 and 300 could be merged to increase readability.

Refactoring suggestion:

```
if (fieldText == null) {
    if ( ((i + 1) < layoutEntries.size()) && (layoutEntries.get(i + 1).doLayout(bibtex, database).trim().isEmpty()) ){
        i++;
        previousSkipped = true;
        continue;
}</pre>
```

Code Smells

The second Code Smell Identified was of type: "Dead Code".

```
private final BibDatabaseContext currentDatabase;
private final AbstractGroup editedGroup;
private final GroupDialogHeader groupDialogHeader;
```

This code smell is located in the following path: jabref -> src -> main -> java -> org. jabref -> gui -> groups -> GroupDialogViewModel.java (lines 110 through 112).

If a private field is declared but not used in the program, it can be considered dead code and should therefore be removed. This will improve maintainability because developers will not wonder what the variable is used for.

Refactoring suggestion:

```
private final BibDatabaseContext currentDatabase;

private final AbstractGroup editedGroup;

112
```

Code Smells

The third Code Smell Identified was of type: "Dispensable Comments".

```
* This is an immutable class representing information of either <CODE>author</CODE> or <CODE>editor</CODE> field in

* 
* Constructor performs parsing of raw field text and stores preformatted data. Various accessor methods return author

* 
* Parsing algorithm is designed to satisfy two requirements: (a) when author's name is typed correctly, the result s

* 
* Arasing algorithm is designed to satisfy two requirements: (a) when author's name is typed correctly, the result s

* 
* * Arasing algorithm is designed to satisfy two requirements: (a) when author's name is typed correctly, the result s

* 
* * Lis 'author field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * Lis 'suthor field' is a sequence of tokens;

* 
* * 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
* 
*
```

This code smell is located in the following path: jabref -> src -> main -> java -> org. jabref -> model -> entry -> types -> AuthorList.java (lines 13 through 114).

A dispensable is something pointless and unneeded whose absence would make the code cleaner, more efficient and easier to understand, in this case there's a huge block of comments that could be completely removed.

Refactoring suggestion: Delete the comment block.