

Review Document – Low-Level-Design Group 19

Paul Fink Jens Henninger Florian Jennewein
Daniel Maier

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1 Introduction

This is our review of the Low-Level-Design document of Group 19.

2 Positive points

2.1 Structure

The reviewed Low-Level-Design-Document has a very good structure and organization, which make it easy to get a clear view over the whole concept.

2.2 Concept

The whole concept of the application is recognizable and has a clear structure. The technical environment is clearly mentioned.

2.3 Description in general

The "Verwaltung" and the "rechnende Komponente" are described in a detailed way and their description is understandable.

2.4 Class-description

The separately and organized descriptions of the classes is a main positive point regarding the overview of the document!

3 Negative points

3.1 Concept regarding points

3.1.1 Lack of Modularity

The whole application isn't very modular, which was an important requirement. That means especially the "Verwaltung[en]", which bunches lots of methods for

most differently tasks. That could be a problem regarding later changes of the application. An alternative way could be to split the tasks to specific classes, which implements the same basic interface.

3.1.2 Databases

Maybe we don't get it, but it seems that the application uses two different databases for user and data. We think that this makes the application more difficult as it could be if there's only one database. By the way this is there's higher maintenance.

3.2 Mistakes

3.2.1 Proxy

The use of the Proxy-pattern is wrong/redundant, because in your diagram is shown, that although a Proxy class exists, the original class communicates with the database instead of the proxy class.

3.3 Missing

3.3.1 Output formats

There are no different/choosable/extensible output formats for downloading the results, although it is required.

3.3.2 WEKA

There's no connection to the WEKA library (through WEKA, the Algorithm classes are redundant).

3.3.3 Sequence diagrams

There's no description for your sequence diagrams.

3.3.4 Patterns

The descriptions, explanation and benefits of the patterns used by the application are missing or insufficient.

3.3.5 Client

The Client isn't mentioned in the whole document. Although we don't have to implement it, a sentence how and through which components the server is connected to the client could be useful.

3.4 Other matters

3.4.1 Sequence diagrams

There are only two sequence diagrams, what's too sparesly in our opinion.

In addition to this, the diagrams are not neat(especially the annotations and crooked arrows).

3.4.2 Unused Patterns

Not really a negative point, but the unused patterns were not required.

The explanation, that the Command Processor Pattern isn't used because there would be no benefit, when undoing something because there's no step goes directly back, is not a good argument.