

# Bachelor Thesis Review

Faculty of Mathematics and Physics, Charles University in Prague

**Thesis author** Olga Andreeva  
**Thesis title** Cloud Database for Soil Information  
**Year submitted** 2016  
**Study program** Computer Science  
**Study branch** General Computer Science

**Review author** Petr Tůma Reviewer  
**Department** Department of Distributed and Dependable Systems

Overall	good	OK	poor	insufficient
Assignment difficulty		X		
Assignment fulfilled		X		
Total size <i>... text and code, overall workload</i>		X		
The thesis meets the usual expectations as far as size is concerned. It is a bit above average in the range of technologies adopted in the implementation.				

Thesis Text	good	OK	poor	insufficient
Form <i>... language, typography, references</i>		X		
Structure <i>... context, goals, analysis, design, evaluation, level of detail</i>			X	
Problem analysis			X	
Developer documentation		X		
User Documentation		X		
The thesis text is slightly below average in the level of detail. In particular, the exposition to the context of soil information collection could be more thorough, in the current form an average reader has very little idea of what the stored data looks like, what is the amount of information managed, and so on. Given the level of detail in the exposition, the analysis of the problem is also somewhat short (in fact mostly limited to the question of what database to use to store the parsed samples, in contrast for example the choice of S3 for the binary samples is not discussed).				

Thesis Code	good	OK	poor	insufficient
Design <i>... architecture, algorithms, data structures, used technologies</i>	X			
Implementation <i>... naming conventions, formatting, comments, testing</i>			X	
Stability		X		

The implementation is of reasonable size (partly thanks to the reuse of the Django Admin framework, which takes care of a large part of the UI), and above average in the degree to which it adopts diverse technologies (Django with extensions, MongoDB, Solr, S3 etc.). On the down side, it is not entirely polished (some sources are not commented at all, not even with documentation strings, module naming and location is sometimes also surprising, and the whole thesis package contains garbage such as temporary data).

As a plus, the implementation includes unit tests. A live demonstration did not show any stability problems.

<b>Overall grade</b>	Excellent
<b>Award level thesis</b>	No

Date

Signature