

## Review of Master's Thesis

**Student:** Bečka Petr, Bc.  
**Title:** Application for Bank Payment Approval in SAP S/4HANA (id 21075)  
**Reviewer:** Rychlý Marek, RNDr., Ph.D., UIFS FIT VUT

- 1. Assignment complexity** **average assignment**  
The Master's thesis deals with the design and implementation of support for approval of payments in the SAP environment. This is an average difficult assignment.
- 2. Completeness of assignment requirements** **assignment fulfilled**  
The assignment was met without reservation.
- 3. Length of technical report** **in usual extent**  
The technical report contains 52 printed pages from the introductory to the conclusion chapters and it is therefore within the usual range. The range of the individual chapters is adequate and their content is rich in information.
- 4. Presentation level of technical report** **80 p. (B)**  
The technical report is generally well structured, but the description of general assumptions (mostly in Chapters 1-4) could be shortened and better distinguished from the description of the actual development of the resulting software solution (mostly in Chapter 5). After the exhaustive introduction, which presents the topic, common issues and approaches, and utilised technologies, the following chapters with an explanation and a description of a solution proposed by the author are clear and understandable. I appreciate frequent and appropriate diagrams, except for the use case diagram in Figure 5.2, page 30, with an inappropriate usage of the "extend" relationship (just one basic use case with too many extension points). Chapter 5.6 "Testing" could be more focused on (details of) the specific applications of the proposed tests, rather than on a general introduction into the test methods.
- 5. Formal aspects of technical report** **95 p. (A)**  
From a formal point of view, the technical report is very good - it contains only minor typographical errors (such as the use of a wrong hyphen or missing dots at the end of sentences), and also too small font in some of the figures (especially Figure 5.12, p. 47). The report is written in English without any significant language mistakes.
- 6. Literature usage** **85 p. (B)**  
The literature list contains 33 items, most of which are online resources for utilised technologies, or publications on accounting and payment issues. All sources are relevant to the topic, they are correctly referenced from the text of the technical report and duly cited, so that the way and the extent of their use are clear.
- 7. Implementation results** **90 p. (A)**  
The implementation output is a working application with a web user interface developed on the SAP S/4HANA platform. The application is well designed (especially the user interface and its controllers), the resulting source code is good with a reasonable amount of comments (especially in the public interface of classes). I appreciate the choice of modern technologies and the development process (including testing).
- 8. Utilizability of results**  
The result is practically usable - it went or will be going soon into the production.
- 9. Questions for defence**
  - The technical report focuses in particular on the description of the user interface and its operation. Briefly describe the overall architecture of the application (putting your work into the context of the entire system) and explain which parts you have implemented and which were implemented by others (if any).
- 10. Total assessment** **85 p. very good (B)**  
The result of the Master's thesis is a working and practically usable software and a very good technical report in English. I propose to evaluate the thesis as **"very good" (B)**.

In Brno 28. May 2018

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signature