

Review report of a final thesis

Czech Technical University in Prague

Faculty of Information Technology

Student: Ondřej Altman
Reviewer: Mgr. Martin Podloucký
Thesis title: Study of Utilising ClojureScript Technology in a Developer Company
Branch of the study: Information Systems and Management (Bachelor, in Czech))

Date: 27. 5. 2015

<p><i>Evaluation criterion:</i></p> <p>1. Difficulty and other comments on the assignment</p>	<p><i>The evaluation scale: 1 to 5.</i></p> <p>1 = extremely challenging assignment, 2 = rather difficult assignment, 3 = assignment of average difficulty, 4 = easier, but still sufficient assignment, 5 = insufficient assignment</p>
<p><i>Criteria description:</i> Characterize this final thesis in detail and its relationships to previous or current projects. Comment what is difficult about this thesis (in case of a more difficult thesis, you may overlook some shortcomings that you would not in case of an easy assignment, and on the contrary, with an easy assignment those shortcomings should be evaluated more strictly.)</p>	
<p><i>Comments:</i></p> <p>--</p>	
<p><i>Evaluation criterion:</i></p> <p>2. Fulfilment of the assignment</p>	<p><i>The evaluation scale: 1 to 4.</i></p> <p>1 = assignment fulfilled, 2 = assignment fulfilled with minor objections, 3 = assignment fulfilled with major objections, 4 = assignment not fulfilled</p>
<p><i>Criteria description:</i> Assess whether the thesis meets the assignment statement. In Comments indicate parts of the assignment that have not been fulfilled, completely or partially, or extensions of the thesis beyond the original assignment. If the assignment was not completely fulfilled, try to assess the importance, impact, and possibly also the reason of the insufficiencies.</p>	
<p><i>Comments:</i></p> <p>--</p>	
<p><i>Evaluation criterion:</i></p> <p>3. Size of the main written part</p>	<p><i>The evaluation scale: 1 to 4.</i></p> <p>1 = meets the criteria, 2 = meets the criteria with minor objections, 3 = meets the criteria with major objections, 4 = does not meet the criteria</p>
<p><i>Criteria description:</i> Compare the size of the written part with the expected size (without appendices), see the Dean's Directive No. 9/2011, Article 3. To evaluate the thesis it is also important that all parts of the written part are rich on information and necessary for a final thesis. The text should not contain unnecessary parts.</p>	
<p><i>Comments:</i></p> <p>--</p>	
<p><i>Evaluation criterion:</i></p> <p>4. Factual and logical level of the thesis</p>	<p><i>The evaluation scale: 0 to 100 points (grade A to F).</i></p> <p>75 (C)</p>
<p><i>Criteria description:</i> Assess whether the thesis is correct as to the facts or if there are factual errors and inaccuracies. Evaluate further the logical structure of the thesis, links among the chapters, and the comprehensibility of the text for a reader.</p>	
<p><i>Comments:</i></p> <p>The logical structure of the thesis is clear, the text is easily understandable and does not contain major mistakes. Several chapters are a bit short, though, and I would suggest to merge them together.</p>	
<p><i>Evaluation criterion:</i></p> <p>5. Formal level of the thesis</p>	<p><i>The evaluation scale: 0 to 100 points (grade A to F).</i></p> <p>85 (B)</p>
<p><i>Criteria description:</i> Assess the correctness of formalisms used in the thesis, the typographical and linguistic aspects, see Dean's Directive No. 9/2011, Article 3.</p>	
<p><i>Comments:</i></p> <p>The formal level of the thesis is high. The quality of the English language is very good (from my experience as a non-native speaker). However, a native speaking reader might be confused by a picture of the UI in Czech language (page 34).</p>	
<p><i>Evaluation criterion:</i></p> <p>6. Bibliography</p>	<p><i>The evaluation scale: 0 to 100 points (grade A to F).</i></p> <p>75 (C)</p>
<p><i>Criteria description:</i> Evaluate the student's activity in acquisition and use of studying materials in his thesis. Characterize the choice of the sources. Discuss whether the student used all relevant sources, or whether he tried to solve problems that were already solved. Verify that all elements taken from other sources are properly differentiated from his own results and contributions. Comment if there was a possible violation of the citation ethics and if the bibliographical references are complete and in compliance with citation standards.</p>	
<p><i>Comments:</i></p> <p>The bibliography contains mostly web-based references which is probably tolerable in this kind of thesis.</p>	

<i>Evaluation criterion:</i>	<i>The evaluation scale: 0 to 100 points (grade A to F).</i>
7. Evaluation of results, publication outputs and awards	70 (C)
<i>Criteria description:</i> Comment on the achieved level of major results of the thesis and indicate whether the main results of the thesis extend published state-of-the-art results and/or bring completely new findings. Assess the quality and functionality of hardware or software solutions. Alternatively, evaluate whether the software or source code that was not created by the student himself was used in accordance with the license terms and copyright. Comment on possible publication output or awards related to the thesis.	
<i>Comments:</i> The thesis does not present any scientific outputs but it clearly informs the reader about the most important aspects of the ClojureScript language.	
<i>Evaluation criterion:</i>	<i>No evaluation scale.</i>
8. Applicability of the results	
<i>Criteria description:</i> Indicate the potential of using the results of the thesis in practice.	
<i>Comments:</i> The thesis is an informative overview of ClojureScript valuable to those who are willing to consider more productive environments than JavaScript for developing web applications.	
<i>Evaluation criterion:</i>	<i>No evaluation scale.</i>
9. Questions for the defence	
<i>Criteria description:</i> Formulate any question(s) that the student should answer to the committee during the defence (use a bullet list).	
<i>Questions:</i> 1. In your opinion, how difficult is a transition from JavaScript to ClojureScript in terms of the paradigm shift needed to change one's thinking from imperative to pure functional view of a program? 2. Are the developers of Socialbakers ready and willing to make this paradigm shift?	
<i>Evaluation criterion:</i>	<i>The evaluation scale: 0 to 100 points (grade A to F).</i>
10. The overall evaluation	75 (C)
<i>Criteria description:</i> Summarize the parts of the thesis that had major impact on your evaluation. The overall evaluation does not have to be the arithmetic mean or any other formula with the values from the previous evaluation criteria 1 to 9.	
<i>Comments:</i> The thesis is a standard and very informative overview of a modern and still evolving programming language.	

Signature of the reviewer: