

CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Economics and Management

Evaluation of the Diploma Thesis by Opponent

Thesis Title **Improvement of green computing using software architecture-centric development with an adaptive tutoring system**

Name of the student **Al Kawsar Majumder**

Thesis supervisor **Ing. Martin Pelikán, Ph.D.**

Department **Department of Information Engineering**

Opponent **Mgr. Ondřej Gryc**

Institution **Ministry of Foreign Affairs**

Position **CIO – Department of Information Technologies Development**

Evidence of a logical process being used	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
The structure of paragraphs and chapters	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Formal presentation of the work, the overall impression	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Formulation of objectives	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Choice of appropriate methods and methodology used	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Professional contribution of the work and its practical usage	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Work with data and information	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Work with scientific literature (quotations, norms)	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Clarity and professionalism of expression in the thesis	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Summary and key-words comply with the content of thesis	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Fulfillment of objectives	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Thesis topic and thesis significance (relevance)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Theoretical background of an author	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Comprehensibility of the text and level of language	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Formulation of conclusions	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Evaluation of the work by grade (1, 2, 3, 4)				3

Evaluation: 1 = the best

Date 18/01/2024

el. signed by Mgr. Ondřej Gryc on 18/01/2024 21:05

Signature of Opponent

Other comments or suggestions:

The author presents thesis focused on software development with special point to the user interface and adaptive tutoring system. The document is on the very edge of the length requested for the thesis. Although it contains 66 pages in total there are only 52 pages of the thesis as such and the pages are very often filled with pictures without any further description. Regarding the content there are two major chapters, theoretical and chapter with description of the survey and some processes which can be used with the software development. In total the information of the work is weak and does not quite reflect the name of the thesis. There are a lot of mistakes in Czech introduction. Also the survey is perhaps copied from some external survey without precise detail about the responders sample sizing, age structure, education etc.

I suppose that the scope of the thesis should be supplemented with precise information about the survey and pictures should be better described and not just simply copied into the text. Also the information given in the conclusion is very general and does not give good idea about the future usage of the technique. Also some better detail is missing about the meaning "green computing" which can should be better explained especially in the connection with the programming techniques.

I would recommend the the final grade good (3), but additional questions should be answered very precisely.

Questions for thesis defence:

1. What is the meaning "green computing" which is used in the name of the thesis, but not very precisely used within the document?
2. how was the survey designed and conducted. Especially describe the size of the sample and its composition?
3. is there any practical example of the adaptive tutoring system?

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