University of Hradec Králové
Faculty of Informatics and Management

SUPERVISOR´S REVIEW OF MASTER'S THESIS

Name of student: Sara Spahić

Thesis title: Blockchain in Energy Sector

Reviewer :   Tereza Otcenaskova

Thesis objective: The Master's thesis aims to explore the use cases of blockchain technology in the energy markets, more specifically in specialized software supporting the business processes related to operation of electidity grid.

Criteria required for evaluation	Evaluation scale (grade)					
	A	**B**	**C**	**D**	**E**	**F**
Content relevant to the field of study	☒	☐	☐	☐	☐	☐
Setting and meeting objectives	☒	☐	☐	☐	☐	☐
Treating theoretical aspects of the topic	☒	☐	☐	☐	☐	☐
Treating practical aspects of the topic	☒	☒	☐	☐	☐	☐
Adequacy of applied methods and their use	☒	☐	☐	☐	☐	☐
Depth and accuracy of implemented analysis	☒	☐	☐	☐	☐	☐
Dealing with literature sources	☒	☐	☐	☐	☐	☐
Logical structure and composition of the thesis	☒	☐	☐	☐	☐	☐
Language and terminology	☒	☐	☐	☐	☐	☐
Formal layout	☒	☐	☐	☐	☐	☐
Student´s contribution	☒	☐	☐	☐	☐	☐
Practical applicability of results	☐	☒	☐	☐	☐	☐

Comments to results of anti-plagiarism check:

The correspondence with other resources is 0%, which implies that the work is original. This fact is obvious when reading the thesis itself. The author worked diligently which is mirrored in the thesis.

Comments and recommendations:

The author used a lot of very topical resources. Moreover, these are well referenced in the text. The number of resources is significant and worthy to be mentioned as the author researched various aspects of the topic appropriately as well as comprehensively.

The basic terminology as well as all abbreviations are correspondingly explained. The thesis structure is clear and logical, all parts are interconnected and contextualised. The list of figures as well as tables is usefully provided. Furthermore, the author's language level is very good and therefore, the text flows smoothly and without mistakes.

Overall assessment and reasons for the final grade:

In cooperation with Unicorn company, the author selected very topical and relevant topic which is not explored and researched widely among the laic as well as professional public. The theoretical part introduces the blockchain technology including the application and the motivation to use it. Then, the use cases of blockchain in energy domain are discussed. Finally, the challenges in this field are discussed and the results are provided.

The mentioned theory is reviewed thoroughly and provides useful background. For the purposes of discussion about the practical aspects, the author analysed and introduced the use cases within which the specific and detailed issues are mentioned. The included and developed figures are offering the overview of the most important concepts (e.g. Figure 6 or 9) and therefore, these represent valuable outputs of the thesis. The up-to-date analysis of the overall market including current trends, challenges and other issues is delivered.

Generally speaking, the author was able to work independently analysing the topic and cooperating with the supervisor and the consultants from the real company as well. The consultations with Unicorn were organised efficiently and the author every time considered the consultants feedback. The value added of the thesis is obvious and the aim was fulfilled. Because of the abovementioned issues I would suggest the mark A.

Questions for oral defence:

Which other sector (except from the energy one) would you consider as potential application field for blockchain? Please, justify your answer.

I recommend the thesis for oral defence.

Suggested final grade: A

Hradec Králové, 21/05/2021

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