I. IDENTIFICATION DATA

Thesis title:	Upgrade of Server Solution
Author's name:	Azad Afandizada
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Electrical Power Engineering
Thesis reviewer:	Daniel Novák
Reviewer's department:	Cybernetics

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **challenging**

How demanding was the assigned project?

The work was challenging, involving programming work on a complex back-end platform and optimizing instances via Docker technology.

Fulfilment of assignment **fulfilled with minor objections**

How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.

All the assignment tasks have been fulfilled; however, I would appreciate a greater scope of load/stress testing.

Activity and independence when creating final thesis **C - good.**

Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.

The student is not a team player, frequent consultations were necessary for further progress in the work, I would have appreciated more independence.

Technical level **C - good.**

Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?

The student's programming and documenting skills are at an average level.

Formal level and language level, scope of thesis **D - satisfactory.**

Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?

The scope of the work is of average length, the graphics are poor, and the code listings are sometimes unreadable against a black background. Some passages are closer to a manual than to a technical expert report.

Selection of sources, citation correctness **C - good.**

Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?

The selection of references is basic, consisting only of links to websites; the literature does not include any scholarly articles or conference papers.

Additional commentary and evaluation (optional)

Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.

The aim of the thesis was to update the application to a new solution whose main goal is to improve the user experience but also to reduce the running time of computational tasks in the background. Although written in English, the thesis is difficult to navigate and is more of a manual than a professional technical text. The graphical layout is not sufficient, the code listings are hard to read. The student has not done any more detailed stress/load testing, so the effectiveness of the new deployment cannot be assessed.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

The thesis makes some contribution by providing a comprehensive description of the process involved in deploying a new version of the complex back-end solution, which includes various optimization strategies. It is acknowledged that the student had to acquire knowledge of several new technologies, which consumed a considerable amount of time. However, due to constraints, there was limited opportunity to evaluate the new application through stress and load testing. Taking these factors into consideration, the submitted thesis is evaluated as satisfactory (grade D).

The grade that I award for the thesis is **D - satisfactory.**

Date: **13.6.2023**   Signature: