THESIS SUPERVISOR'S REPORT

I. IDENTIFICATION DATA

Thesis title:	**Front-end part of the process testing data management system**
Author's name:	**Maximilián Herczeg**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computers
Thesis reviewer:	Ing. Matěj Klíma, Ph.D.
Reviewer's department:	Department of Computers

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **challenging**

How demanding was the assigned project?

The aim of the project was to create a frontend part of the process testing data management testing with the help of researching algorithms for the development of process testing algorithms and for the system engineers to have a tool for the system model creation, storage, and sharing. Since the front-end part of the application shall offer a relatively wide variety of functions and the system shall be made public and well-usable, I evaluate the thesis assignment as challenging.

Fulfilment of assignment **fulfilled**

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 assigned tasks were fulfilled successfully.

Activity and independence when creating final thesis **A - excellent.**

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.

Cooperation with Mr. Herczeg was excellent. We had regular meetings, and the student always completed everything we agreed on.

Technical level **A - excellent.**

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?

During the implementation of the system, the student had to prove his skills in multiple domains. The front-end development using JavaScript framework and multiple external libraries, managing the communication with the back-end part of the system, testing the implementation using E2E automated tools, versioning using Git platform, etc. Moreover, the student had to research and transform ten existing system models into the system he created.
In the textual part of the thesis, the student had to familiarize himself with the process (or path-based) testing domain and properly describe it. Moreover, in the textual part, he had to prove he knew how to perform system analysis and document the created system's design, implementation, and testing.

Formal level and language level, scope of thesis **A - excellent.**

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?

Even though the text of the thesis is not written in the maternal language of the author, it is on a very good level. The thesis is organized into logical chapters and sections, and all the figures and tables are properly described and referenced. The scope of the thesis is extensive and much over the limit. This might be the only comment I have on this thesis, which is that, in some parts, the scope is too extensive (e.g., in Chapter 4 Implementation). On the other hand, it will be of good use when anyone else would like to extend or edit the implementation.

Selection of sources, citation correctness	**B - very 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 thesis contains 24 references to websites that document used technologies, scientific papers, and other websites. The objection I have is that online sources are missing the date of access. Also, the last source is missing the kind of media that published it. Otherwise, the bibliography style is consistent and in the correct format. The student's original work is well distinguished from the earlier work in the field, with one exception in Section 2.2 Test case, which is missing the source.	

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.
I would like to point out that the whole system is already in its production stage and available at https://cpt.fel.cvut.cz/manager/. Also, it was already used for propagation purposes of the Open Informatics study branch. Moreover, the system will be used further to gather data to validate the algorithms for system process testing.

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

In the implementation part of the thesis, the author proved the skills to design, build, and test the front-end part of a web application using modern technologies based on predefined requirements. In the text of the thesis, he showed he knows how to document the developed system using correct language and architectural diagrams.

As part of the defense, I would like to ask the student to explain how he transformed the "Login process based on the developed system" in Figure 2.1 to the oriented graph in Figure 2.2. Did he use for this purpose any methodology, e.g., TMAP Next?

The grade that I award for the thesis is **A - excellent.**

Date: **27.5.2024** Signature: