ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Modular Dashboard**
Author's name:	**Patrik Dvořáček**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis supervisor:	Ing. Michal Vaněk
Supervisor's department:	Department of Economics, Management and Humanities FEE

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **challenging**

Evaluation of thesis difficulty of assignment.

The assignment deals with design and implementation of a software project. The biggest challenge lies in the implemented modular system which is prepared for modules created by third-party developers.

Satisfaction of assignment **fulfilled**

Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.

The work fulfilled all of the requirements.

Activity and independence when creating final thesis **B - very good.**

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

The author worked independently and regularly consulted the progress and remaining work on the project.
The author was too optimistic about agreed deadlines and the most of them were missed by week or two.
The author was able to explain any encountered difficulties and was able to overcome them on his own.

Technical level **A - excellent.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

The technical level of the thesis is on a high level and sometimes surpassed the knowledge level gained by study.
The student was able to utilize modern software development practices and frameworks to provide a usable and maintainable software project.

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

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

Both the typographical and language aspects of the work are very good.

Selection of sources, citation correctness **A - excellent.**

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

All of the sources are relevant to the project and are in accordance with citation conventions.

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

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The author demonstrated the ability to implement a fully functioning web application. Both the server and web interface are implemented according to requirements. The whole project is covered by tests, thus allowing for easy integration with continuous integration/continuous deployment workflows.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.
The author has demonstrated knowledge and ability of a software engineer by designing and implementing a full-stack web application. Small stain on the whole work is the formal non-compliance with the agreed deadlines despite in the end the result is excellent.

Q1: Fullstack solutions like NextJS allow for the implementation of REST APIs with the option of server-side or client-side rendered frontend. Why was the server-client model with Express and React used instead?

Q2: What would you recommend as the next steps for further development and application enhancement?

I evaluate handed thesis with classification grade **B - very good.**

Date: **1.6.2022** Signature: