Tomas Bata University in Zlín
Faculty of Applied Informatics

OPPONENT´S EVALUATION OF THE BACHELOR´S THESIS

Student: Mohammed Fataka **Opponent: Ing. et Ing. Erik Král, Ph.D.**

Study program: **Software Engineering**
Study course/Specialization:
Academic year: **2022/2023**

Bachelor's Thesis topic: **gRPC framework and its applications**

The thesis offers insights into the benefits and implementation of gRPC as an alternative to other protocols. Throughout the thesis, the author demonstrates an understanding of the subject matter through a thorough literature review. The benchmarks conducted in the thesis showed that gRPC outperforms REST in terms of response time and throughput.

Only a few things could be improved in the bachelor thesis. In Table 1, Supported programming languages in gRPC, the author lists node.js as a programming language even though it is a runtime environment. Furthermore, the author could describe in the thesis how developers can use gPRC on the client side in a web browser and if there are any limitations in this case.

Overall, this thesis is a valuable resource for developers interested in exploring the benefits and implementation of gRPC in modern client-server communication architectures.

Questions:

How can gPRC be used in a web browser?

Overall evaluation of the thesis:
The Opponent shall grant a mark according to the ECTS classification scale:
A – Excellent, B – Very Good, C – Good, D – Satisfactory, E – Sufficient, F – Insufficient
An "F" grade also means "I do not recommend the thesis for defence."

I recommend this thesis to be defended and suggest the following evaluation:

A - Excellent

In the case of an evaluation grade of "F – Insufficient", please supply the main shortages and reasons for this assessment.

Date: 30. 5. 2023 Thesis Opponent's Signature: