

## **OPPONENT'S EVALUATION OF THE MASTER'S THESIS**

**Student:** Ahmmed Adesanya

**Opponent:** Ing. Roman Došek

Study program: Information Technologies  
Study course/Specialization: Software Engineering  
Academic year: 2023/2024

Master's Thesis topic: **Efficiency Evaluation of Deploying Application**

### **Evaluation of the thesis:**

The core of this thesis revolves around the subject of measuring the performance of web services deployed either on-premise or in one of the cloud environments. As such, the work only measures throughput and latency, completely disregarding other benefits such as scalability. The difficulty seems to be below the level expected from a Master's thesis.

The thesis contains a great deal of citations, however, some of them offer questionable benefits (eg. number [11]).

For implementation, the author picked SQLite for the database, which is quite an unusual choice for such a service - in effect, the results are more skewed by the performance of individual storage.

The work does not collate individual outputs, making them harder to comprehend and compare. The author does not offer any insight into performance differences - it is not identified whether they are caused by slower I/O, processor performance or network throughput.

- 1) Why did you pick SQLite for database storage instead of any common database tailed for concurrent access (Postgres, MySQL,...)?
- 2) When comparing individual deployments, did you try to identify the root cause for performance differences? Eg. by logging & measuring the time of receiving request, the time to access data from the database, time to reply?
- 3) Did you repeat any measurements to rule out external influences?

Due to low difficulty of selected topic and questionable results, I feel that appropriate mark is D – Satisfactory.

**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:**

D - Satisfactory

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

Date: 23. 05. 2024

Thesis Opponent's Signature: