Tomas Bata University in Zlín
Faculty of Applied Informatics

OPPONENT´S EVALUATION OF THE MASTER´S THESIS

Student: **Layth Alzamili** **Opponent:** **Nabhan Khatib**

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

Master's Thesis topic: **Web Development Using React.js**

Evaluation of the thesis:

The thesis titled 'Web Development Using React.js' offers an in-depth examination of the MERN stack for development, from both theoretical and practical standpoints. It aims at the creation of a user-friendly web application to aid travelers by providing interactive tools for smarter trip planning. However, there are several areas of concern:

- Many figures in the thesis, such as Figures 3 and 4, were of poor quality and seemed to be sourced from other materials, which detracts from the originality and clarity of the presentation.
- The theoretical section, despite detailing important concepts, was overly lengthy and could be perceived as tedious by readers. A more concise content was needed.
- While tables, like Table 1 on page 90, were used to illustrate the application's functionality, presenting this information in flowcharts or similar, easy-to-understand diagrams would have been more effective.
- The absence of figures or flowcharts illustrating the interaction between the frontend and backend systems was a missed opportunity. Including an architecture diagram would have significantly enhanced understanding of the system's structure and interconnectivity.
- The thesis did not provide a GitHub link for code access and execution instructions. Sharing such a link would have been more practical than distributing the code in a zip file.

However, the thesis presents as interesting application with numerous beneficial features for users.

Questions:

- Why did you choose the MERN stack over other technology stacks for your project? Please mention other technologies and list the key differences that influenced your decision, especially regarding scalability, performance, and development speed.
- What is the most significant drawback of your application, and how can it be addressed in the next release?
- Can you mention some ideas on how your application could be integrated with machine learning technologies?"

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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:

B - Very Good

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

Date: 19.05.2024

Thesis Opponent's Signature: