Regional ICT Skills Championship 2025

IT Software Solutions for Business

1 Introduction

This document describes the ICT Regional Championships in the category IT Software Solutions for Business.

You are tasked to develop a desktop application consisting of various windows. The application can be implemented using any technology. However, the endproduct must be executable in the competition VM. You will get a time budget of around 3 hours to complete as many tasks as possible. To provide all participants the same possibility to test their endproduct, a Windows VM will be distributed some time before the competition.

If you find yourself in the situation where there is not enough time to complete all remaining tasks, skip the implementation of certain tasks in favor of others. However, it is expected that you deliver a smoothly running application at the end of the competition to facilitate the assessment of your work. The major number of points will be awarded among correctly working functionalities.

2 Bring your own device

Competitors will use their own devices for the championship.

Please download and test the virtual machine on your device before the competition day. The VM will be available for download few days before the competition.

By downloading this VM, you are agreeing to following rules:

- The VM is to be used exclusively for the competition.
- Any distribution of the VM is strictly forbidden.
- Within 7 days, starting from the competition day, the VM including the compressed archive and any resulting files must be deleted.

On your host device, one of the following software products is required to run the virtual machine:

- VMware Workstation Player Version 17 or higher (free for non-commercial use)
- VMware Fusion Player Version 13 or higher (free for non-commercial use)

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3   Rules

Being a BYOD contest, the competition is subject to an Open-Book ruling. Allowing Open-Book however gives the competition management less control over the rules set. Therefore, your supervisor has been instructed to pay attention actively that the rules are strictly obeyed.

Please comply with the following rules throughout the competition:

- The only devices for the competition allowed are your **computer/laptop** including **power supply**, **mouse**, **keyboard**, <u>one</u> **screen (for computer users)** and **docking station**. Other devices like smartphones must be put away. Your supervisor may allow exceptions to this rule. Headphones are allowed.
- Any form of **communication** or any **cooperation** with other people except your supervisor is strictly prohibited.
- Any form of **disturbance** to the competition or to other competitors is prohibited.
- Any form of **providing/leaking info** about the competition *during* the competition is prohibited.
- The usage usage of generative AI is explicitly **allowed**.

Failing to comply with above rules may result in the disqualification from the competition.

3.1   Rules examples

Following table shows a non-conclusive list of rule interpretations:

Allowed	Prohibited
Working outside the provided VM on your own device.	Allow someone to connect to your computer to help you. (e. g. TeamViewer, Visual Studio Live Share, etc.)
Use existing resources on the internet including stackoverflow, github	Requesting help from other people (for example, do not create a new question on stackoverflow, and don't use chat apps to communicate during the competition.
Use Google to find a solution to your problem	Transmitting the project to someone else
Using ChatGPT or GitHub CoPilot or something similar to generate code snippets.	Phone or other voice chat calls
Usage of downloaded libraries / code (for example maven or Nuget). Please adhere to the licenses.	Live streaming of your screen or camera recording
Use a book or notes you brought with you	
Using headphones	

3.2   Fairness

Details for Fairness etc. see in the General-Informations for the ICT Championships.

4   Tools

Please check the readme-file on the VM's desktop. You may customize the VM and install other software. But keep in mind that the expert team will use the original VM for evaluation. If you see any crucial software package missing from the VM, please request it to be included in the VM by contacting bryan.tabinas+regio.skill09@gmail.com. Such requests may be brought to attention no later than 16. February 2025.

The VM will come with the following software pre-installed in a recent version:

- Microsoft Windows 11 Pro
- git command line client
- maven
- intelliJ Community Edition
- Visual Studio Community Edition
- MySQL Community Edition
- OpenJDK
- JavaFX SDK
- Gluon Scene Builder
- Microsoft SQL Server Express
- SQL Server Management Studio

5   Evaluation

The evaluation will be done using the compiled application only. Please make sure the end product runs on the **original** virtual machine provided. The application should be executable easily (e.g. through double click on a ***.exe**, ***.bat**, ***.ps1** etc.). If this is not the case, please add a comment that describes how to start the application.

NOTE: No extra effort, apart from following your documentation, will be made to get the application running on the expert's VM. Ideally the application is "portable" (i.e. extract, double click, run).

6   Delivery

The delivery consists of several parts:

- Source code
- Executable program
- Database scheme and data
- Formalities:
    - o   Competitor information
    - o   Readme file

The file and folder structure will be predefined by the project task. More information on how and where to deliver the final product will follow on the competition day.