

# Regional ICT Skills Championship 2023

## 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. You will have three hours to complete as many of the listed tasks as possible. You are free to perform the required tasks with all the skills you have. Along with the task description you will get a Styleguide, various resources to be used during the competition and a SQL file (MySQL or T-SQL) to set up your database with the corresponding tables and test data. Any further information about the tasks and the delivery of your work you will get at the championship.

### 2 Bring your own device

Competitors will use their own devices for the championship. This also has the effect that internet usage is no longer restricted. Please note that any communication about the championship tasks, or the exchange of the tasks or solutions, is strictly prohibited and will result in disqualification of all involved parties from the current and future championships.

#### 2.1 Rules

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, one 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.

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### 2.2 Tools

This year no virtual machine will be provided for the competition. However, you are free to work in a virtual machine if you would like to.

Following Tools are recommended, as they will be equal or very similar to the ones available at the national competition:

- Java
  - Open JDK 17.01
  - IntelliJ IDEA Community Edition 2021.1.2
  - SceneBuilder 17
- .NET
  - Visual Studio Community 2022 (16.10)
- Databases
  - Microsoft SQL Server 2019 Express
    - JDBC Driver
    - Management Studio 18.10
  - MySQL 8
    - JDBC / .NET Connector
    - Workbench
- Windows 10

You are free to use the tools of your choice, however it is highly recommended to stick to the technology (Java and C#) available and required at the national competition, as the competition task is designed to be completed with mentioned tools.

### 3 Evaluation

The delivered product will be tested on a basic Windows 10 virtual machine where all the listed tools are installed. Due to the freedom of technology, **the evaluation team treats the final product as black box and limits their attempts to debug the final product.** In other words, the competitor has to make sure, that the final product is executable on said environment. This also means, that the building-process for the application has to be set up correctly to include all required libraries. If your product needs some installation steps or other requirements, make sure to list them in the readme.

If you made a lot of effort in some work which is not visible in the black box, you may mention it in your readme. In such cases the evaluation team might consider the source code to grant some points, which otherwise would be missed. Example: "Prepared all window GUIs, but only two of them are accessible."

### 4 Delivery

More information on how and where to deliver the final product will follow on the competition day.