2026/27 Homework assignment 1: Requirements

Send the required deliverables to Jana.Kosticova@fmph.uniba.sk with the subject **PTS2 HW1**.

The deadline is **27.10.2026 23:59:59**.

Assume that the following document describes the original business requirements for AIS2: *Business Requirement Document: AIS2* (PTS2_HW1_BRD.pdf).
Analyze the AIS2 student interface to identify solution requirements that are implemented and can be traced to the original business requirements (BRs), as well as solution requirements that are not implemented but would contribute to fulfilling one or more BRs.

Deliverable (single file / PDF):

1. **Glossary**
   - Common explanation for the domain concepts used in the rest of your deliverable
   - **Format** — write a short definition (1-2 sentences) for each concept
2. **Requirements**
   - **Implemented requirements** — list **4 existing functional requirements (FRs)** and **3 existing non-functional requirements (NFRs)** that are implemented in the *student interface* of AIS2 and can be traced to one or more of given BRs.
     - Each **FR** must be a different FR type (examples: *display / add / choose / set / save / submit / send / etc.*). Do not reuse the same type twice.
     - Each **NFR** must be a different NFR type (usability, performance, security, availability, maintainability, etc.). Do not reuse the same type twice.
     - For each requirement provide evidence it is implemented in AIS2 (a screenshot always if possible, otherwise a short reproduction of the steps). Any personal data on screenshots should be redacted.
   - **Missing requirements** — list **2 solution requirements** (FR or NFR) that are *not* implemented in AIS2 but would help meet one or more BRs.
   - **Trace and reason** — for **every** solution requirement listed (implemented + missing) provide:
     - Full traceability chain **to each** BR that is supported by the solution requirement:
     - **FR/NFR → …. → higher-level requirements → …. → BR**
       - Use 2-5 intermediate steps. Avoid unclear steps!
     - Provide description of traceability chain. Explain exactly how the given solution requirement supports (partially or completely) the related BRs.
     - If relevant, state assumptions or dependencies
   - **Format** — write a separate entry for each FR/NFR.

Other conditions:

- Write all requirements in **shall** form (e.g., "*The system shall display …"*).
- The listed requirements must be at the solution level (e.g., describe in detail what is / shall be implemented),
- The requirements listed must meet the "Quality characteristics" of requirements mentioned in the lecture (except prioritization).
- Do not write any requirements related to the authentication.
- This is each student's own and independent work. Collaboration between students and the generation of content by AI tools are not allowed. Violation of this rule may result in zero points for this homework assignment and referral of the case to the disciplinary committee of FMFI UK.