

Annex II - Business Case - Proof of Concept

The business case described below represents the context of the second stage of the Revalida exam, in which the *Virtual Objective Structured Clinical Examination* (vOSCE) methodology intends to evaluate the functionalities and potential of the solution to meet the needs of INEP, from its first pilot to approximately 10,000 professionals who needed to revalidate their medical degree. Thus, this PoC has specific usage needs. They are:

1. Scope of the demo

The demonstration should simulate **a complete examination with at least 2 stations (see files Station 1.docx and Station 2.docx)**, according to the vOSCE standard, totaling approximately 30 minutes **in duration** (15 minutes per station).

Each **station** must include the following **stages and components**:

a) Presentation and home screen

- Initial orientations to the participant, including **evaluative objectives, expected tasks and brief description of the clinical case** (level of care, patient profile, clinical status and available resources).
- Opening conducted by a **"narrator" or virtual instructor** (avatar or voiceover), responsible for introducing the case and guiding the flow of interaction.

b) Script/Station Script

- Development of the **simulation's base text**, with the speeches of the simulated patient and/or companion.
- **Recording or rendering of videos** with the characters and clinical scenario, in small excerpts that correspond to the evaluative interactions.
- Insertion of these videos on the digital platform, with synchronization of speeches, pause triggers and space for the participant's response (by video, audio, text or selection).

c) Information inputs and support materials ("digitized")

- Set of complementary resources available to the participant during the execution of the station:
 - Tables and results of laboratory tests;
 - Medical reports (image, sound or video, such as radiography, auscultation or physical maneuvers);
 - Infographics, additional video or audio clips;
 - Consultation documents or simulated clinical protocols.
- These materials should be presented as a **"file folder" accessible on the station**, without interfering with the main runtime.

d) Participant interactions and responses

The platform should allow multiple response and interaction formats:

- **Video and/or audio recording**, with configurable timer, for oral responses, diagnoses, guidance or referrals;
- **Selection of correct actions or alternatives** among options presented on screen;
- **Writing medical documents or clinical records** in specific fields (e.g., prescriptions, conducts, or evolutions). Each part of the simulation video must correspond to one of these interactions, composing the complete evaluation cycle within the station.

e) Evaluation and Expected Standard of Procedure (PEP), when applicable:

- The **PEP** represents the expected response pattern and should be configured for the evaluator's exclusive use.
- It should contain the **enumeration of evaluation criteria**, weights and partial scores, allowing automated or semi-automated analysis of the answers.
- The platform must generate **performance reports**, indicating response time, sequence of actions, errors and successes, and indicators of clinical proficiency.

Also note if all items are covered by item 7 (3rd step) of the Term of Reference (main instrument).

2. Inputs for the preparation of the PoC:

- a) Station 1.docx
- b) Station 2.docx and respective Videos (1 to 7).