



Delivery of a new information system for the management of examination questions (IS SPOT) for the client CNB – the central bank of the Czech Republic

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Project implementation date: 2.Q 2023



The delivery of a new information system for the management of examination questions (IS SPOT) for the client Czech National Bank is an application used by internal users of the Czech National Bank (CNB), as well as by representatives of the Ministry of Finance and representatives of accredited persons who are authorised to organise professional examinations in accordance with the relevant legal regulation. It is also available to the general public on the CNB website.

Definition of the core part of the delivered IS SPOT solution:



The aim of the project was to create an information system for the management of examination questions (IS SPOT), which is designed to support the management of examination sets intended for professional examinations according to individual legal regulations, in particular:

- Act No. 257/2016 Coll., on Consumer Credit, as amended,
- Act No 256/2004 Coll., on capital market business, as amended,
- and Act No. 170/2018 Coll., on the distribution of insurance and reinsurance, as amended.

Key functionalities of the IS SPOT solution:



THE ENTIRE IS SPOT SOLUTION PROVIDES SUPPORT, SOLUTIONS AND AUTOMATION ESPECIALLY FOR THE FOLLOWING PROCESSES OF EXAM QUESTION MANAGEMENT AND CIRCULATION:

- ✓ Administration of users, dials
- ✓ Login of internal and external users
- ✓ Create a new question
- ✓ Workflow of question processing and approval
- ✓ Import of question data, answers and statistics
- ✓ Language correction of questions and answers
- ✓ Processing of public comments
- ✓ Publication of questions
- ✓ Test generation
- ✓ Statistics on pass rates for exams, tests, questions

The main benefits of the delivered IS SPOT solution:

A MAJOR BENEFIT OF IS SPOT IS THE MANAGEMENT OF ALL EXAM SETS INCLUDING QUESTIONS AND CASE STUDIES IN ONE PLACE.



- ✓ In the IS SPOT solution, all questions and case studies for individual exam sets managed by the Administrator and the CNB Expert are imported for preview by the Ministry of Finance Expert, Language Proofreader and Accredited Person Representative.
- ✓ Within the application, it is possible to submit a change/modification to a question or case study, request that it be removed, or submit a suggestion for a completely new question. These suggestions can be made by a CNB Expert, MF Expert or Accredited Person Representative.

ANOTHER GREAT BENEFIT OF IS SPOT IS ITS ACCESSIBILITY TO THE GENERAL PUBLIC.



IS SPOT is a web-based application that is available not only for internal CNB users via the intranet, but also for external users via the internet on this page:
<https://apl.cnb.cz/spt/r/spot/spot/home>

THE FOLLOWING MENUS ARE AVAILABLE TO THE GENERAL PUBLIC WITHOUT LOGGING IN:

- Home, where the exam sets are published in PDF and XML.
- Display of regular statistics, when it is an evaluation of statistical data on the success rate of individual professional exams.
- Run test - interested members of the public can generate a sample or full-length test for any professional exam, try to complete the test and then have it evaluated. He/she will get feedback on the questions/case studies answered correctly, how many points he/she scored out of the maximum possible, what was the success rate of the test.



THE MOST COMMONLY USED TECHNOLOGIES AND SOLUTIONS:

- Within the implementation of the subject of performance, the full functionality of the new IS SPOT system was created in the Oracle environment.
- The user interface of IS SPOT is implemented using the Oracle APEX application platform.
- The delivery also included integration to the internal systems of the CNB).



HANDOVER OF THE SOLUTION INTO PRODUCTION AND COMMENCEMENT OF LIVE OPERATION:

- The entire IS SPOT solution was launched on 1 June 2023.
- The delivery included delivery of a feasibility study (analysis), implementation, creation of test scenarios, training of internal CNB staff, subject matter administrators and IS SPOT users, testing, resolution of errors found in the tests, assistance with penetration testing, piloting, documentation and import of historical data.