

Reference: N.º 24/IAVE/2022

TENDER SPECIFICATIONS

Acquisition of services for the development of a platform that allows the construction and realization of assessments in digital format

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Part I
Legal Clauses

Article 1
(Object)

1. The main object of this specification is the acquisition of services for the development of a platform that allows the construction and realization of assessments in digital format within the scope of the Recovery and Resilience Plan - Project C20-i01.01.
2. This procedure is included in the CPV 72000000-5. IT services: consulting, software development, Internet and support;

Article 2
(Contract)

1. The contract consists of the respective contractual clauses and its annexes.
2. The contract to be signed also includes the following elements:
 - a. Correction of errors and omissions in the Specifications identified by the invited entities, provided that these errors and omissions have been expressly accepted by the competent body for the decision to contract;
 - b. Clarifications and corrections relating to the Tender Specifications;
 - c. These Tender Specifications;
 - d. The awarded tender;
 - e. The awarded tender.
3. In case of discrepancy between the documents referred to in the previous number, the respective prevalence is determined by the order provided therein.
4. In case of divergence between the documents referred to in number 2 and the articles of the contract and its annexes, the former prevail, except for the proposed adjustments, in accordance with Article 99 of the Public Contracts Code (hereinafter referred to as PCC) and accepted by the contractor, pursuant to Article 101 of the same law.

Article 3
(Duration of the contract)

1. The service provider undertakes to start providing the services referred to in article 1 within 3 (three) days after the communication of the award.
2. The provision of services object of this Tender Specification has phased deliveries identified in Annex I of the Tender Specifications.
3. The provision of services object of this Tender Specification has a maximum duration until December 31, 2025.

**Article 4
(Base price)**

The base price set under the terms and for the purposes set out in paragraph 1 of article 47 of the CCP, is the maximum price that the Contracting Authority is willing to pay for the services, which constitutes the object of this procedure, being defined €745,000 (seven hundred and forty-five thousand euros), plus VAT at the legal rate in force, if legally due.

**Article 5
(Contract price and payment conditions)**

1. The contracting authority undertakes to pay the successful tenderer the value of the services contained in the awarded proposal, plus VAT at the legal rate in force.
2. The price of the services to be provided to the contracting authority is that which results from the provisions of these terms and conditions and from the proposal submitted, and cannot, under any circumstances, be higher than the maximum established reference price, under penalty of exclusion from the proposal.
3. Payment of the invoice(s) will be made within a maximum period of 30 (thirty) days from the date of receipt of the invoice by the contracting authority, provided that the services have actually been provided and confirmed by the contracting authority.
4. In case of disagreement on the part of the contracting authority, as to the values indicated in the invoices, it must communicate to the successful tenderer, in writing, the respective reasons, being the successful tenderer obliged to provide the necessary clarifications and/or issue a new corrected invoice.
5. In the event of delay in fulfilling pecuniary obligations by the contracting authority, the provisions of articles 299, 299-A and 326 of the CCP apply;
6. There is no review or update of the contractual price.
7. Invoices must indicate, under penalty of nullity, the commitment number that will be indicated by the contracting authority.

**Article 6
(Contractual penalties)**

1. For non-compliance with obligations arising from the contract, the contracting authority may require the service provider to pay a pecuniary penalty, an amount to be set depending on the seriousness of the non-compliance, of up to 20% of the contractual price.
2. In the event of termination of the contract due to non-compliance by the service provider, the contracting authority may demand a pecuniary penalty of up to 20% of the contractual price.

3. The sums paid by the service provider under paragraph 1 are deducted from the amount of the pecuniary penalty provided for in the previous number, in relation to the services whose delay in execution has determined the respective resolution.
4. In determining the seriousness of the non-compliance, the contracting authority takes into account, namely, the duration of the infringement, its possible repetition, the degree of fault of the service provider and the consequences of the non-compliance.
5. The contracting authority may offset the payments due under the contract against the pecuniary penalties due under the terms of this clause..
6. The pecuniary penalties provided for in this clause do not prevent the contracting authority from demanding compensation for damages resulting from delay in performance, defective performance and definitive non-compliance.

Article 7 (Confidentiality)

1. The service provider must keep confidential all information and documentation, technical and non-technical, relating to the contracting authority that it may have knowledge under or in connection with the performance of the contract.
2. The information and documentation covered by the duty of secrecy cannot be transmitted to third parties, nor can it be used in any way other than directly and exclusively for the performance of the contract..
3. It is excluded from the duty of confidentiality referred to in the previous number, the information and documentation that are proven to be in the public domain on the date of the respective acquisition by the provider of goods, or that the latter is obliged to reveal, by force of law, in a judicial proceeding or at the request of regulatory authorities or other competent administrative entities.
4. The service provider must maintain secrecy regarding the information that it may obtain within the scope of the execution of this contract, for whatever reason, of the contract, without prejudice to being subject to any legal duties relating, namely, to the protection of credibility, prestige or trust due to legal persons.

Article 8 (Data Protection Regulation)

1. The contractor is obliged to comply with all applicable legal provisions regarding the processing of personal data, in the sense given by Regulation (EU) 2016/679 of the European Parliament and of the Council, of April 27th, 2016, on the protection of the natural persons with regard to the processing of personal data and the free circulation of such data (“General Regulation on Data Protection”) and other applicable community and national legislation, in relation to all personal data accessed within or for the purpose of providing the goods, namely, personal data of customers, employees, collaborators and suppliers of goods of IAVE, I.P.
2. The parties acknowledge and accept that, with regard to all personal data to which the contractor has access or is transmitted by IAVE, I.P. for the purposes of providing the goods:
 - a. IAVE, I.P. will act as data controller (as defined in the General Regulation on Data Protection),

- determining the purposes and forms of data processing by the contractor;
- b. The contractor will act as a subcontracting entity (as defined in the General Regulation on Data Protection), processing personal data in strict compliance with the instructions of the data controller;
 - c. For this purpose, the processing of personal data is understood to be the operations, with or without recourse to automated means, carried out on the personal data of IAVE, I.P. employees, including the collection, registration, organization, storage, adaptation or modification, retrieval, consultation, use, disclosure, transfer and/or making available to third parties, aligning, combining, blocking, erasing and destroying the aforementioned data.
3. The contractor is obliged not to copy, reproduce, adapt, modify, change, delete, destroy, disseminate, transmit, disclose or, by any other person, make available to third parties the personal data to which they have access or have been transmitted by the data controller under this Agreement, without having been expressly instructed, in writing, by the data controller or by the data subjects in the exercise of their respective rights.
4. Without prejudice to the other obligations provided for in this Contract, the contractor is obliged to strictly comply with the provisions of the applicable legislation regarding the processing of personal data, and in particular to:
- a. Treat it only in accordance with the instructions of IAVE, I.P., solely and exclusively, for the purposes of this provision of goods, complying with the statutory obligations on data protection;
 - b. Provide all the collaboration needed to clarify any issue related to the processing of personal data carried out under this Agreement and keep IAVE, I.P. informed concerning the processing of personal data;
 - c. Provide assistance to IAVE, I.P. , taking into account the nature of the treatment and the information at its disposal, in order to ensure the obligations regarding the notification of violations of personal data, namely through communication, whenever possible up to 72 hours after the knowledge (of the occurrence) of any violation of personal data that occurs, also collaborating with IAVE, I.P. in the adoption of measures to respond to the incident, in the investigation and in the elaboration of the notifications that are necessary under the terms of the law;
 - d. Collaborate with IAVE, I.P. taking into account the nature of the treatment, and, as far as possible, adopting the technical and organizational measures referred to in this Article, which include encryption or pseudonymization of personal data, in order to reduce the risks for the data holders in question, not excluding other possible data protection measures, so as to fulfil the obligation to respond to requests from data subjects, with the purpose of allowing them to exercise their rights under the terms of the law;
 - e. Not to communicate personal data to third parties and providers of goods not authorized or indicated by IAVE, I.P.;
 - f. Depending on the choice of IAVE, I.P. or of the data subjects to delete or return the personal data at the time of cession of the contract, deleting any existing copies, except if the conservation or transmission of the data is required by law;
 - g. Keep records of data processing activities carried out on behalf of IAVE, I.P. under this agreement, in accordance with the requirements provided for by law;
 - h. Comply with all other legal provisions regarding the registration, transmission or any other processing operation of personal data provided for by law;
 - i. Not to transfer personal data outside the European Economic Area, without the prior written consent of the data controller;

- j. Provide the data controller with all the information necessary to show compliance with the obligations provided for by law in the respective scope and facilitate and contribute to audits, including inspections conducted by the data controller or by another auditor mandated by the controller;
 - k. Ensure that the personnel authorized to process personal data assume a commitment to confidentiality and that they are aware of and commit themselves to fulfil all obligations set forth herein.
5. The contractor is obliged to implement the technical and organizational measures necessary for the protection of personal data processed on behalf of IAVE, I.P. against their accidental or unlawful destruction, accidental loss, alteration, unauthorized dissemination or access, as well as against any other illicit form of processing of that personal data.
6. The measures referred to in the previous number must ensure an adequate level of security in relation to the risks that the processing of data presents, the nature of the data to be protected and the risks, of varying probability and severity, for the rights and freedoms of the natural persons.
7. The contractor agrees that access to personal data processed under this Contract will be strictly limited to personnel who need to have access to it for the purposes of fulfilling the obligations assumed herein by the contractor.
8. The contractor is obliged to notify the data controller of any situation that may affect the processing of personal data or in any way give rise to non-compliance with the legal provisions on data protection, and must also take all necessary measures in its power to stop it immediately.
9. The contractor will be responsible for any damage IAVE, I.P. may incur as a result of the processing of personal data or in violation of applicable legal rules and the provisions of this Contract, when such violation is attributable to the contractor, together with its staff, within the scope of the service provided, when the violation is attributable to the action of the latter.
10. The contractor is authorized to resort to subcontracting a third party to collaborate in the provision of the goods, ensuring, however, that it will comply with the provisions of the applicable legislation. Such obligation must be included in a written contract that the contractor celebrates with the third party, thus ensuring compliance with the obligations arising from Regulation (EU) 2016/679 and other applicable legislation regarding personal data, binding the actions to the essence, nature and purposes of this contract, in strict compliance with the duty of confidentiality.
11. Whenever IAVE, I.P. receives a request for access or rectification of personal data or an opposition to its processing by its data holders, the contractor must assist the data controller through appropriate technical and organizational measures, to allow it to fulfil its obligation to respond to requests from holders, while allowing them to exercise their legal rights.

Article 9 **(Amendments to the contract)**

1. Any amendment to the contract must be in a written document signed by both parties and it will take effect from the date of the respective signature.
2. The party interested in the amendment must communicate this intention in writing to the other party, at least 10 (ten) days in advance of the date on which it intends to see the amendment introduced.
3. The contract can be amended by:
 - a. Agreement between the parties, which cannot be less solemn than that of the contract;

- b. Judicial or arbitral decision;
 - c. Reasons of public interest.
4. Amendments to the contract cannot lead to the modification of essential aspects of the same, nor a way to prevent, restrict or distort competition.

Article 10
(Cession of contractual position)

1. The contractor may not cede the contractual position or any of the rights and obligations arising from the contract, without prior authorization from IAVE, I.P.
2. The assignment of the contractual position complies with the provisions of the Public Contracts Code.

Article 11
(Subcontracting)

1. The contract is *intuitu personae*, so the successful tenderer cannot subcontract, in whole or in part, the execution of his project.
2. The prohibition of the previous number excludes subcontracting that is subject to prior authorization in writing by the contracting authority.
3. In the event of subcontracting, the successful tenderer remains fully responsible for providing the services covered by the contract.

Article 12
(Good faith)

The parties oblige themselves to act in good faith in the performance of the contract and not to exercise the rights provided therein, or by law, in an abusive manner.

Article 13
(Contractor's obligations)

1. Without prejudice to other obligations provided for in the applicable legislation, in these Tender Specifications or in the contractual clauses of the conclusion of the contract, the main obligation for the successful tenderer is to execute the contractual object in accordance with the technical specifications contained in clause 19 of this document.
2. The Contractor's obligations are also:
 - a. Submit the qualification documents to which they are required, pursuant to article 81 of the CCP.
 - b. Execute the object of the contract in a professional and competent manner, using technical knowledge, know-how, diligence, zeal and punctuality typical of best practices.
 - c. Resort to all human, material and computer resources that are necessary and appropriate for the provision of the service, as well as the establishment of the organization system necessary for the perfect and complete execution of the tasks in their charge.

- d. Communicate in advance, as soon as it becomes aware, to the contracting authority, the fact that makes it totally or partially impossible to provide the services subject to the procedure, or the fulfillment of any other of its obligations under the terms of the contract signed with the contracting authority.
- e. Do not change the conditions for the provision of services outside the cases provided for in the terms of reference and with the specifications of these terms of reference.
- f. Not to subcontract, in whole or in part, the execution of the object of the contract, without prior authorization from the contracting authority.
- g. Communicate any fact that occurs during the performance of the contract and that changes, namely, its corporate name, its legal representatives, its legal situation and its commercial situation.
- h. Maintain secrecy and guarantee confidentiality, not disclosing any information obtained within the scope of the formation and execution of the contract, nor using the same for purposes unrelated to that execution, this obligation covering all its agents, employees, collaborators or third parties who are in them involved.
- i. Possess all the authorizations, consents, approvals, registrations and licenses necessary for the timely fulfillment of the obligations assumed in the contract.

Article 14

(Obligations of the contracting authority)

Obligations of the contracting authority:

- a) Pay, within the agreed period, the invoices issued by the contracting authority;
- b) Monitor the provision of services with regard to compliance with its specifications and delivery times and apply the appropriate sanctions in case of non-compliance;
- c) Appoint a contract manager, in accordance with the provisions of article 96 and article 290-A, both of the CCP, and communicate any changes to that appointment.

Article 15

(Acts of God or “Force Majeure”)

1. For the purposes of this contract, only cases of force majeure are considered circumstances that make it impossible to fulfill the obligations arising from the contract, beyond the will of the affected party, which he could not have known or foreseen at the date of conclusion of the contract and whose effects are not known to him. It was reasonably required to circumvent or avoid.
2. Acts of God or force majeure are understood to be any situation or event that is unpredictable and exceptional, regardless of the will of the parties, and that does not derive from the fault or negligence of any of them.
3. They may constitute force majeure, if the assumptions of paragraph 1 are verified, namely, earthquakes, floods, fires, epidemics, sabotage, strikes, embargoes or international blockades, acts of war or terrorism, riots and injunctive governmental or administrative determinations.
4. They do not constitute force majeure, namely:
 - a. Circumstances that do not constitute force majeure for the subcontractors of the contracting authority, insofar as they intervene;
 - b. Strikes or labor conflicts limited to the contracting entity or to groups of companies in which it forms

- part, as well as to companies or groups of companies of its subcontractors;
- c. Governmental, administrative or judicial determinations of a sanctioning nature or otherwise resulting from the non-compliance by the adjudicating entity with duties or burdens that fall upon it;
 - d. Fires or floods originating in the premises of the contracting authority whose cause, propagation or proportions are due to its fault or negligence or to non-compliance with safety standards;
 - e. Malfunctions in the contracting authority's computer or mechanical systems;
 - f. Events that are or should be covered by insurance.
5. The occurrence of circumstances that may constitute force majeure must be immediately communicated to the other party.
 6. When one of the parties does not accept in writing that a certain occurrence invoked by the other constitutes force majeure, it is up to the latter to prove the respective assumptions.
 7. The verification of a situation of force majeure determines the extension of the deadlines for compliance with the affected contractual obligations, for the period of time demonstrably corresponding to the impediment resulting from force majeure.

Article 16
(Communications and Notifications)

1. Without prejudice to the possibility of agreeing on other rules regarding notifications and communications between the parties to the contract, these must be sent, via email, under the terms of the Public Procurement Code, to the respective email addresses, identified in the contract.
2. Any change to the contact information contained in the contract must be communicated to the other party.

Article 17
(Applicable legislation)

In everything that is omitted from this Tender Specification, the provisions of the CCP and other legislation in force will be observed.

Article 18
(Arbitration clause and competent jurisdiction)

For the knowledge of any disputes arising from the contract, namely those relating to its interpretation, execution, non-compliance, validity, resolution or reduction, the district court of Lisbon is competent..

Article 19
(Counting of deadlines)

1. The deadlines provided for in the contract are continuous, running on Saturdays, Sundays and public holidays,

and are not suspended or interrupted on holidays, unless otherwise provided.

2. Deadlines that end on Saturdays, Sundays or public holidays are transferred to the following business day, which does not apply in the case of municipal holidays.
3. Exceptions to paragraph 1 are cases in which the terms provided for in the contract run explicitly and only on business days.

Article 20 **(Technical specifications)**

This contract includes the acquisition of services for the development of a platform that allows the construction and realization of assessments in digital format, in the following terms:

The test construction and assessment platform will be the digital platform used for the construction of tests by authors and for students to perform, automatic classification of selection items and transfer of construction responses to the online classification system of IAVE.

When building the platform, Council of Ministers Resolution No. 129/2021, of September 10, must be followed, whenever applicable, ensuring that new developments must meet the principles of digital government contained in the common design model and development of digital services.

The following digital government principles must be complied with:

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- g) Adoption of clear language according to good practice guides;
- h) Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the “silver seal of digital usability and accessibility”;
- i) Availability of functionality for evaluating satisfaction with services according to the AP cross-sectional evaluation benchmark;
- p) Compliance with AP Data Privacy Cross-Cross Policies;
- q) Compliance with the National Framework of Reference for Cybersecurity;
- r) Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
- s) Compliance with the self-assessment of safety, pursuant to paragraph g) of paragraph 4 of article 18 of Regulation (EU) 2021/241, of the European Parliament and of the Council, of February 12, 2021, which creates the MRR.

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All accesses performed for construction or administration must use double authentication factor. Whenever possible, the authentication.gov system will be used, maintaining the nature of the process and the absolute need

for secrecy and anonymity of users who build items and tests for national exams and students who take national exams.

Students can take assessments online or in two possible offline formats (local network server and standalone computer) in the case of offline processes, total data security must be guaranteed, that is, all process has to be encrypted and decryption can only be performed on the central server.

When building the platform, it must be considered that it will have to support at least approximately 1000000 tests annually and that it will have to support the minimum of 150000 tests online simultaneously.

The production process, both online and offline, is carried out using an internet browser and must be compatible with the main browsers (Chrome, Firefox, Edge, Safari, Opera) and must be guaranteed to be carried out on desktop and laptop computers (Windows, Linux, MacOS), tablets (Android and IpadOS)

In the process of creating items in different formats, there will be a direct follow-up by an internal consultant of IAVE, who will define the way to design, present and mark.

During the entire platform development contract, there will be ordinary biweekly follow-up meetings (in person or online) about the development process. Exceptionally, whenever a milestone approaches within less than a month's time, meetings will take place weekly.

Each time features are made available on the platform, a user manual or update of the existing manual must be provided, describing the platform (installation, administration and use) and which must be divided into a graphical use part and a command line use part.

List of requirements:

- With each delivery the source code (not encrypted) will have to be delivered to IAVE, I.P.;
- Possibility of administering online approximately 1,000,000 tests in each test/exam period;
- Possibility of administering online tests simultaneously to a minimum of 150,000 students;
- Possibility of administering online and offline tests through a local server and on a standalone computer;
- Generating, in batches, individual credentials per student (anonymous);
- Allocation of individual credentials per student;
- Allocation of test(s) to different students;
- Possibility of blocking the computer window during a test;
- Test taking through a browser on computers (desktop or laptop) and tablets with screen size equal to or bigger than 11”;
- Test taking using the main operating systems - Windows, Linux, MacOS, Android, IpadOS, etc...;
- Items
 - Creating/editing/deleting items;
 - Exporting/importing items;
 - Creating/editing/deleting folders/tags (organisation system);
 - Moving/copying items between folder/tag;
 - Duplicating items within each folder/tag;
 - Setting user permissions for items and folders/tags;

- Importing and exporting items in QTI and PCI formats (specifications at *imglobal.org*);
- Direct import from the IAVE item design and monitoring platform;
- Designing and writing close-ended and open-ended items in different formats (for every case the options can be text, mathematical writing, image, video or audio) in all formats it must be possible to define one or several correct answers and classifications in total or partial values or codes):
 - text/media block – allowing the insertion of text, images, videos and audio for the designing/writing of the item. Possibility of formatting (location, size and number of possible listenings to audio files or video viewings) of images, videos and audios associated with the text;
 - drawing pad – allowing the student to freely draw and write the answer or part of it;
 - multiple choice with one or several correct options:
 - in text format;
 - in table format with one or several correct options per row and column;
 - in inline testing;
 - having a background image and the answer options can be defined in areas of the image;
 - association:
 - of two option columns where each column has a different set of options;
 - in table format; the answer in each cell can be given through drag-and-drop, dropbox, text, etc...;
 - having a background image;
 - ordering:
 - from a set of options;
 - from a set of options with a background image;
 - text and/or mathematical writing can be used in a close-ended answer;
 - text and/or mathematical writing can be used, with word count, in an open-ended answer;
 - image subtitling (number of options different from the number of subtitles, i.e., there are several options for each subtitle);
 - blank filling (drag-and-drop, dropbox selection, manual filling-in);
 - file upload
 - segmented connections of points;
- Tests
 - designing/writing of linear and non-linear tests;
 - designing/writing of tests with the possibility of several sections with no feedback;
 - sections with insertion of pin or password key;
 - possibility of timing the sections;
 - possibility of timing the test;
 - using items located in different folders/tags;
 - definition of auxiliary tools to be displayed per item;
 - auxiliary tools:
 - enlargement and reduction of the screen;
 - magnifying glass – enlarging and reducing parts of the screen;
 - reading line by line or by area, hiding the rest of the screen;
 - normal calculator;

- scientific calculator;
 - pointing out/underlining the text;
 - possibility of shuffling and fixing items;
 - possibility of shuffling the answer options for each item;
 - possibility of displaying an informative final screen with a summary of what was answered and not answered, with direct access to the items;
 - possibility of displaying warnings regarding the end of test, section and existence of unanswered items;
 - delivery of the test with crystallization of the items used, i.e., even if the items undergo changes, these will not affect the test in progress;
 - possibility of defining test availability (start and end date and time);
 - possibility of defining the students or groups of students who will take the test;
 - possibility of defining guest access, i.e., the test allows free access to all;
 - the possibility of ensuring the supervision during the test (proctoring).
- Supervision of the test (proctoring)
 - possibility of allocating extra time to one or several students;
 - the possibility of authorising the beginning of a test to one or more students;
 - possibility of restarting a test.
- Results
 - each attempt must be saved for per student with:
 - identification of the test;
 - identification of the student;
 - starting date and time;
 - ending date and time.
 - the following must be saved for each attempt, per student and per item:
 - final answer;
 - marking (coding or numerical) of the answer;
 - number of attempts;
 - time in seconds spent on the item.
 - visualization of results per test and per student.
 - exporting results per test and per student in csv format with the possibility of selecting the data to export.
- Assessment performance statistics
 - Number of enrolled students;
 - Number of students who performed;
 - Average completion time;
 - Average time per item.
- Global Settings
 - Event log
 - registration of all events that occur while using the platform, events being classified as error, warning, authentication, activity, other;

- query by the platform administrators regarding saved events;
- exporting in csv format per user or per type of saved events;
- Users
 - creating/editing/deleting user. User data are:
 - ID;
 - username;
 - password;
 - type of user;
 - active.
 - Creating batches of users;
 - Assignment of passwords by importing users in a block with the return of a csv file with user and password data;
 - Creating/editing/deleting permissions/user types;
 - Assigning users with different permissions (administration, item designing and writing, test taking, proctoring, auditing, consulting, assessment, etc.);

Annex I

Technical characteristics (minimum technical requirements) - To be concluded by 17/03/2023

- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the “silver seal of digital usability and accessibility”;
- Compliance with AP Data Privacy Cross-Cross Policies;
- Compliance with the National Framework of Reference for Cybersecurity;
- Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
- The production process, both online and offline, is carried out using an internet browser and must be compatible with the main browsers (Chrome, Firefox, Edge, Safari, Opera) and must be guaranteed to be carried out on desktop and laptop computers (Windows , Linux, MacOS), tablets (Android and IpadOS)
- Possibility of administering online approximately 1,000,000 tests in each test/exam period;
- Possibility of administering online tests simultaneously to a minimum of 150,000 students;
- Possibility of administering online and offline tests through a local server and on a standalone computer;
- Generating, in batches, individual credentials per student (anonymous);
- Allocation of individual credentials per student;
- Allocation of test(s) to different students;
- Possibility of blocking the computer window during a test;
- Test taking through a browser on computers (desktop or laptop) and tablets with screen size equal to or bigger than 11”;
- Test taking using the main operating systems - Windows, Linux, MacOS, Android, IpadOS, etc...;
- Items
 - Creating/editing/deleting items;
 - Creating/editing/deleting folders/tags (organisation system);

- Moving/copying items between folder/tag;
- Duplicating items within each folder/tag;
- Setting user permissions for items and folders/tags;
- Designing and writing close-ended and open-ended items in different formats (for every case the options can be text, mathematical writing, image, video or audio) in all formats it must be possible to define one or several correct answers and classifications in total or partial values or codes):
 - text/media block – allowing the insertion of text, images, videos and audio for the designing/writing of the item. Possibility of formatting (location, size and number of possible listenings to audio files or video viewings) of images, videos and audios associated with the text;
 - multiple choice with one or several correct options:
 - in text format;
 - in table format with one or several correct options per row and column;
 - in inline testing;
 - association:
 - of two option columns where each column has a different set of options;
 - in table format; the answer in each cell can be given through drag-and-drop, dropbox, text, etc...;
 - having a background image;
 - ordering:
 - from a set of options;
 - text and/or mathematical writing can be used in a close-ended answer;
 - text and/or mathematical writing can be used, with word count, in an open-ended answer;
 - image subtitling (number of options different from the number of subtitles, i.e., there are several options for each subtitle);
 - blank filling (drag-and-drop, dropbox selection, manual filling-in);
 - segmented connections of points;
- Tests
 - designing/writing of linear and non-linear tests;
 - possibility of timing the test;
 - using items located in different folders/tags;
 - definition of auxiliary tools to be displayed per item;
 - auxiliary tools:
 - enlargement and reduction of the screen;
 - magnifying glass – enlarging and reducing parts of the screen;
 - reading line by line or by area, hiding the rest of the screen;
 - normal calculator;
 - pointing out/underlining the text;
 - possibility of displaying an informative final screen with a summary of what was answered and not answered, with direct access to the items;
 - possibility of displaying warnings regarding the end of test, section and existence of unanswered items;
 - delivery of the test with crystallization of the items used, i.e., even if the items undergo changes, these will not affect the test in progress;

- possibility of defining test availability (start and end date and time);
- possibility of defining the students or groups of students who will take the test;
- possibility of defining guest access, i.e., the test allows free access to all;
- Results
 - each attempt must be saved for per student with:
 - identification of the test;
 - identification of the student;
 - starting date and time;
 - ending date and time.
 - the following must be saved for each attempt, per student and per item:
 - final answer;
 - marking (coding or numerical) of the answer;
 - number of attempts;
 - time in seconds spent on the item.
 - visualization of results per test and per student.
 - exporting results per test and per student in csv format with the possibility of selecting the data to export.
- Global Settings
 - Event log
 - registration of all events that occur while using the platform, events being classified as error, warning, authentication, activity, other;
 - query by the platform administrators regarding saved events;
 - Users
 - creating/editing/deleting user. User data are:
 - ID;
 - username;
 - password;
 - type of user;
 - active.
 - Creating batches of users;
 - Assignment of passwords by importing users in a block with the return of a csv file with user and password data;
 - Creating/editing/deleting permissions/user types;
 - Assigning users with different permissions (administration, item designing and writing, test taking, proctoring, auditing, consulting, assessment, etc.);

Technical characteristics (minimum technical requirements) - To be concluded by 30/11/2023

- Fixes and improvements from the previous version;
- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than

- that required by the “silver seal of digital usability and accessibility”;
- Compliance with AP Data Privacy Cross-Cross Policies;
 - Compliance with the National Framework of Reference for Cybersecurity;
 - Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
 - All accesses performed for construction or administration must use double authentication factor. Whenever possible, the authentication.gov system will be used, maintaining the nature of the process and the absolute need for secrecy and anonymity of users who build items and tests for national exams and students who take national exams.
 - Each time features are made available on the platform, a user manual or update of the existing manual must be provided, describing the platform (installation, administration and use) and which must be divided into a graphical use part and a command line use part.
 - Items
 - Designing and writing close-ended and open-ended items in different formats (for every case the options can be text, mathematical writing, image, video or audio) in all formats it must be possible to define one or several correct answers and classifications in total or partial values or codes):
 - multiple choice with one or several correct options:
 - having a background image and the answer options can be defined in areas of the image;
 - file upload;
 - Assessment performance statistics
 - Number of enrolled students;
 - Number of students who performed;
 - Average completion time;
 - Average time per item.
 - Global Settings
 - Event log
 - exporting in csv format per user or per type of saved events;

Technical characteristics (minimum technical requirements) - To be concluded by 30/04/2024

- Fixes and improvements from the previous version;
- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the “silver seal of digital usability and accessibility”;
- Compliance with AP Data Privacy Cross-Cross Policies;
- Compliance with the National Framework of Reference for Cybersecurity;
- Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);

- Items
 - Exporting/importing items;
 - Importing and exporting items in QTI and PCI formats (specifications at *imglobal.org*);
 - Direct import from the IAVE item design and monitoring platform;
 - Designing and writing close-ended and open-ended items in different formats (for every case the options can be text, mathematical writing, image, video or audio) in all formats it must be possible to define one or several correct answers and classifications in total or partial values or codes):
 - drawing pad – allowing the student to freely draw and write the answer or part of it;
 - ordering:
 - from a set of options with a background image;
- Tests
 - auxiliary tools:
 - scientific calculator;

Technical characteristics (minimum technical requirements) - To be concluded by 29/11/2024

- Fixes and improvements from the previous version;
- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the “silver seal of digital usability and accessibility”;
- Compliance with AP Data Privacy Cross-Cross Policies;
- Compliance with the National Framework of Reference for Cybersecurity;
- Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
- Tests
 - designing/writing of tests with the possibility of several sections with no feedback;
 - sections with insertion of pin or password key;
 - possibility of timing the sections;
 - possibility of shuffling and fixing items;
 - possibility of shuffling the answer options for each item;

Technical characteristics (minimum technical requirements) - To be concluded by 30/04/2025

- Fixes and improvements from the previous version;
- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the “silver seal of digital usability and accessibility”;
- Compliance with AP Data Privacy Cross-Cross Policies;

- Compliance with the National Framework of Reference for Cybersecurity;
- Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
- Tests
 - the possibility of ensuring the supervision during the test (proctoring).
- Supervision of the test (proctoring)
 - possibility of allocating extra time to one or several students;
 - the possibility of authorising the beginning of a test to one or more students;
 - possibility of restarting a test.;

Technical characteristics (minimum technical requirements) - To be concluded by 28/11/2025

- Fixes and improvements from the previous version;
- Adoption of clear language according to good practice guides;
- Conformity with best practices with respect to usability and accessibility at a level equivalent to or better than that required by the "silver seal of digital usability and accessibility";
- Availability of functionality for evaluating satisfaction with services according to the AP cross-sectional evaluation benchmark;
- Compliance with AP Data Privacy Cross-Cross Policies;
- Compliance with the National Framework of Reference for Cybersecurity;
- Compliance with technical guidance on the application of the principle of "not significantly harming" environmental objectives under the regulation establishing a Recovery and Resilience Mechanism (MRR);
- Compliance with the self-assessment of safety, pursuant to paragraph g) of paragraph 4 of article 18 of Regulation (EU) 2021/241, of the European Parliament and of the Council, of February 12, 2021, which creates the MRR.