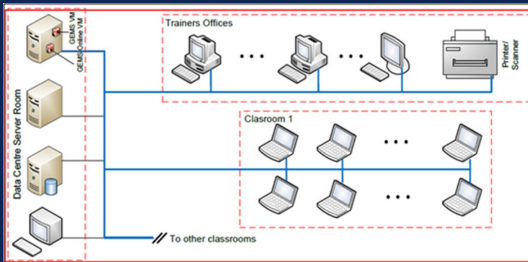


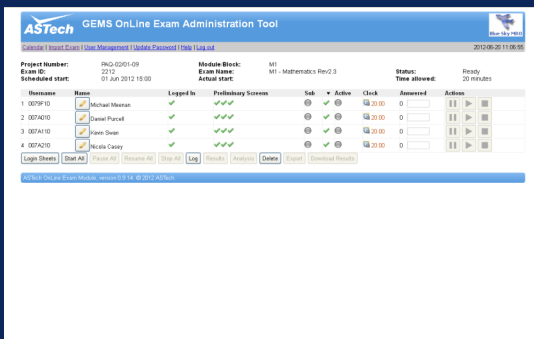
Key Features

- ALLOWS USERS TO HOLD MULTIPLE CHOICE EXAMINATIONS ONLINE
- DESIGNED FOR USE WITH TOUCH SENSITIVE (TABLET) OR TRADITIONAL MOUSE DRIVEN (LAPTOP OR DESKTOP) INTERFACES
- INDIVIDUAL CANDIDATE ACTIVITY CAN BE MONITORED IN REAL TIME
- RANDOMISATION OF QUESTION AND ANSWER ORDER FOR EACH CANDIDATE
- CANDIDATE RESULTS AND ITEM ANALYSIS AVAILABLE AT EXAM END

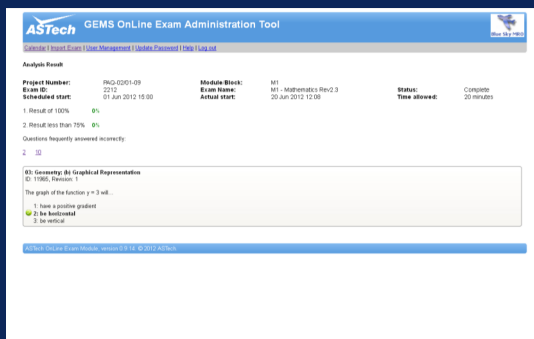
GEMS Online Exam Architecture



GEMS Online Administration Tool



GEMS Online Analysis Results



GEMS Online Exam

GEMS Online Exam is a web application that makes it possible to hold multiple choice examinations online. Examination candidates may take an exam using either a conventional WIMP (Windows, Mouse Pointer) interface, as found on a laptop or desktop computer, or using a touchscreen interface, as found on an Android and Windows tablet device. An examination administrator can monitor the progress of each candidate through an examination console, and may start, pause, and stop the examination as appropriate.

Once the examination is over, the administrator has immediate access to the examination results, including candidate score and an analysis of the questions used in the examination. Additionally, complete descriptions of each candidate's completed exam can be exported to a specified location for future archiving.

Exam Screen

GEMS Online Exam presents one question to an exam candidate at a time. Questions are presented in a unique random order to each candidate. To increase the security of the exam, the answers are also presented in a randomized order to each candidate.

Candidates can answer questions in any order, or change their answers to questions at any time up to the end of the exam. Visual tools allow candidates to navigate through the exam, and to see clearly at any moment which questions they have answered. Candidates also have the option of flagging a question for later attention as they proceed through the exam.

Exam Monitor

GEMS Online Exam allows an exam administrator to follow the progress of each candidate throughout the exam. The administrator can see the time remaining to a candidate, and the number of questions he or she has answered, at all times. If a candidate is inactive for a period, or his or her device fails, the administrator is immediately informed. This allows any issues that might arise during the exam sitting to be resolved.

Once the examination is over, the results and grades for all candidates are immediately available to the administrator. The administrator can also view a list of any "problem" questions (those answered incorrectly by a significant percentage of candidates) that arose during the course of the exams.

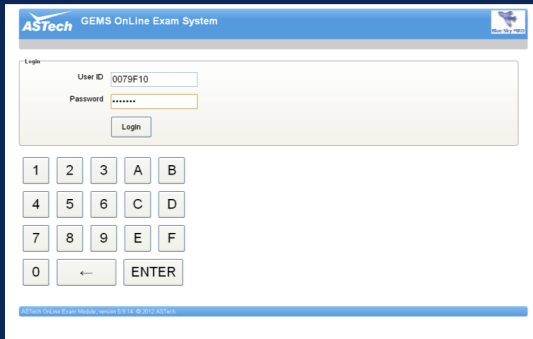
GEMS Online Exam can also be configured to export a zip package containing a detailed report of each candidate's examination to a known location.

Deployment

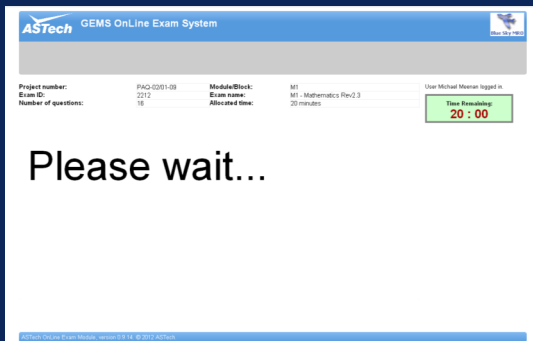
GEMS Online Exam may be deployed in two different scenarios: fixed and portable. In the fixed scenario, the assessment is hosted on a server on a local network, and both the supervisor and students log onto the server from the assessment centre. The assessment supervisor logs on using a laptop or desktop computer; student devices may be computers or tablet devices.

In the portable scenario, the assessment is hosted on a Virtual Machine (VM) running on a suitably specified laptop computer. The assessment supervisor establishes a local network using a wireless router, and students take the assessment using wireless-enabled laptop computers or tablet devices.

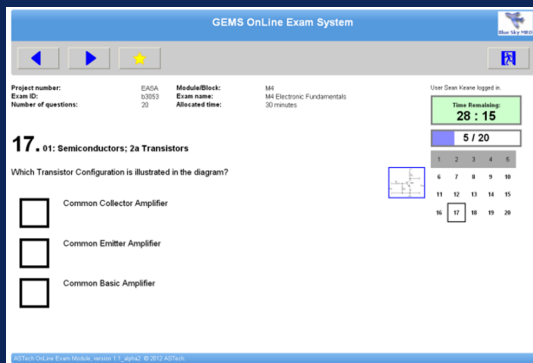
Gems Online Exam Candidate Login



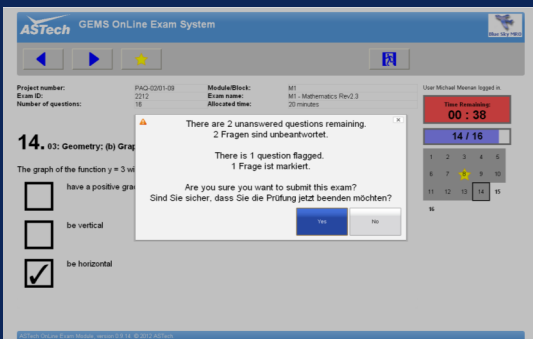
GEMS Online Exam Screen—Start the Exam



GEMS Online Exam Screen—Questions



GEMS Online Exam Screen—Submit Exam



Configurable Functionality

GEMS Online Exam can be configured to automatically import exams from GEMS Basic, GEMS Type and GEMS Fundamentals. Alternatively, an exam administrator may import an exam generated by one of these systems manually.

GEMS Online Exam offers exam providers the ability to specify a number of preliminary screens to be navigated by an exam candidate before starting the examination proper. These screens can simply provide information to the candidate, or alternatively they may be configured so that the candidate must agree to terms or conditions set out on the screen. This facilitates compliance with (for example) data protection regulations.

The colours and logos used on the exam candidate screen can be configured to suit the exam provider's corporate branding.

GEMS Online Exam can be configured to export exam results automatically to GEMS Basic, GEMS Type and GEMS Fundamentals.

Benefits of GEMS Online Exam

GEMS Online Exam offers exam providers a way to hold online examinations for candidates without the overhead of producing large numbers of printed examination sheets and of manually correcting them.

Examination results are available to examiners immediately after an exam has concluded. This information can be provided to candidates immediately if desired.

Close integration with the existing GEMS Basic allows the roll out of an end to end examination management system.

GEMS Online Exam allows to run multiple examinations remotely and from different locations.

Further, support for touch-sensitive devices such as a Android or Windows tablet device means that GEMS Online Exam can be used with the latest course delivery tools.

What do Our Customers Say

Customers describe the system as

- Highly efficient
- Reduces the expenses involved in setting up and post-processing the exam
- Largely eliminates human error
- Extremely user friendly

ASTech in the Aviation Industry

Atlantic Simulation & Training Technologies (ASTech) is an internationally trading software company based in Galway, Ireland. The company specializes in products and services for the development and delivery of training and examination systems for industry.

Customers within the aviation industry include international operating aviation training organisations.

Other products include [GEMS Basic](#), [GEMS Type](#), [GEMS Fundamentals](#), [GEMS OMR](#), [GEMS FCL](#), [GEMS PPL](#) and [GEMS Pilot Type](#).