

Secure Your Online Exams with EasyProctor



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Introduction

EasyProctoring is an important aspect of conducting an examination, which ensures that the candidate appearing in the exam are not doing any form of deceitful activities during the exam. Nowadays, proctored exams become the most common type of examination. This is akin to a brick-motor setting in which the proctor monitored in real-time from the place of their choosing to proctor intervene upon observing anything suspicious. The online proctoring simplifies the entire exam process for both the mentors and their pupils and lends fairness and feasibility to the evaluation process. Here we discuss all the basics of easyproctored exam and its implications of shifting from traditional exam approaches to online exams, the key features of EasyProctor application as well as how this new technology is advantageous for Proctor, Student and Reviewer.

Types of Proctoring using EasyProctor Application

Image mode of Proctoring

Image mode of proctoring means capturing the images of the candidates or the live images of the candidates while attending the test at random or regular intervals. These images captured through the web camera's integrated in the system. The images captured through this camera will be stores for review purpose. With the help of AI integration, image comparison will occur to access whether the right person is taking the test.

Live Proctoring

As the name suggests, live proctoring means the proctor can continuously monitor the candidate during the exam to confirm a cheat-free examination. Human controls the live proctoring personally, integrated with the AI algorithm shows the severity flags if the candidate shows any activities against the instructions of the exam.

Record and Review mode of proctoring

Record and review mode is a form of online proctoring, where the assessments will be monitored via online and no proctors will be watching the test takers when the exam is in progress.

Roles Supported : Student, Proctor, Reviewer, Customer Admin & Super Admin

Key Features of Easy Proctoring

SAAS - model, supporting multiple organization

Easy Proctor application is completely SAAS model supported where multiple organizations accounts can be created within the single cloud hosting and all organizations can be managed centrally.





Secure Browser

Tests can be set to launch with the secured browser or normal browser. Secure Browser is a custom web browser that enables the secure delivery of online tests and assessments by locking the user down to the test/assessment activity in full screen model. The user will not be able to access other applications and most of the system and browser controls like CTRL+ALT+DEL, etc. will also be disabled, after launching the test.

Photo identity match using AI engine

Easy Proctor application is enabled with AI engine for matching Photo ID and Headshot. First level of matching is done from the AI engine, along with the status (Matched/ not matched) and later Proctor can approve the candidate from taking the test / Reject the candidate / Put the candidate on-hold. Only Approved candidates can access and submit the test.





LIVE chat with candidate

Proctor can interact with candidate with chat window to have LIVE communication during the test taking time. Candidate can reply to proctor messages. With this feature, communication is bridged with student and considerable malpractices can be avoided.

Photo ID and Headshot Capture

Before starting the exam, student will have to show Photo id and capture the headshot. This will be automatically matched by AI engine and once approved, Student will be able to access the assessment.





Annotating the Video

Reviewer / Proctor can annotate on the student video on specific time instance. Pencil tool is enabled for annotating on the video and comment can be added after annotating. Annotations can be cleared if wrongly done by using clear button. Remarks given by Proctor / Reviewer can be viewed by selecting/clicking on the proctor image.



Pause test by Proctor - LIVE mode



The proctor can pause the test remotely for the students. This feature is mainly for allowing the recess breaks for the student during long exams. When more severity flags generated from the student, the proctor can pause the test. This feature is available in the Live mode proctoring exams. Remember, the exam window and questions will not be displayed once the test is paused.

Resume test by Proctor - LIVE mode

The proctor can resume the test remotely after the pause. Once the test is resumed, the student will be displayed with the exam window and can access the same question where it was paused earlier.





End Exam by Proctor - LIVE mode

Proctor is given the option to end the exam remotely for the student. This feature is used if the proctor finds more high-priority -Severity flags from the student during exam time. Students will not be able to access the exam once it is ended by the proctor. Responses for the questions which was answered before ending will be saved and will be accounted for in reports.

Multiple Candidate view - LIVE mode

Proctor is assigned with multiple students and all students can be proctored simultaneously using single window. Proctor is displayed with small thumbnail windows for each student and the option to maximize and view the complete student camera view / Screen view. Maximum of 8 students can be monitored by the proctor for a given assessment.





Recess time during Test based on Proctor approval

The student can ask for Recess time during the assessment time and also resume the assessments after completing the recess time. Assessment with questions will not be displayed for the student during recess time and will be continued back only after resuming the Assessment by the proctor.

AI based flagging and grouping it based on severity

Student video is analysed using AI algorithm and flagged. These are grouped based on severity (High, Medium and Low) and also based on the types. No Front face, more than 1 face, Electronic items and External objects are few flag types which will be analysed and detected by AI engine from the given video



Chat / LIVE interactions

Easyproctor application is enabled with a Chat tool, integrated with Tawk box. Using this feature, the Student and proctor can exchange textual messages within the application. This will add more security for the proctor since the user is not moved out of the SARAS application and chat is tracked. This tool also enables the student to get some approvals from the proctor for having breaks within the assessment time

Students might get involved in copying the answers and getting answers from other sources if chat is not tracked by the proctor.Selection of browser for an assessment is while scheduling the assessment by admin. Based on which student will be given the option to access and launch the test





Secured Browser / Normal browser

Secured Browser - The secured browser will have more restrictions on student actions while taking the exam as the user will be allowed to access only the assessment screen. Keyboard shortcuts like copy, paste, windows, Task manager, and toggling between windows are all restricted while using the secured browser. This type of assessment delivery is more suitable for high stake exams and assessments. Screen sharing for LIVE proctoring is built in, even with a secured browser enabled for assessment

Normal Browser - There will be limited restrictions or no restrictions for the student to use other windows/keyboard shortcuts while accessing assessments. This type of assessment delivery is more suitable for non-high stake exams and assessments. Selection of browser for an assessment is while scheduling the assessment by admin. Based on which student will be given the option to access and launch the test

Secondary Camera for Student

The secondary camera view will cover more space of visibility of the candidate area. Candidate needs to install the mobile app and the device should be placed around the candidate area/opposite to the primary camera. Analysis of the video, in line with the primary camera is also available in the Easyproctor application which detects candidate movements, more people within the exam area, and other parameters.



Audio calling

In addit Proctor also giv proctor student

In addition to Chat interaction, Audio calling is also enabled as part of interaction tools. Proctor is given the option to call to student and Audio chat with the student. Proctor is also given the option to mute the student audio and enable it whenever required. Since the proctor can have multiple students for proctoring the given assessment, muting the student would be very ideal feature as it would lead to noise if all audio from students is enabled.

Desktop window sharing to Proctor in LIVE mode

Student desktop view is shared to proctor once the assessment is started in LIVE proctoring. This enables proctor to check whether the student is accessing only right set of windows while taking the test. Desktop window sharing is automatic and student will not be given any additional step for getting it enabled



Photo detail & Test detail buttons

Reviewer is given option to toggle between the Photo details and Test details. This feature enables the reviewer to have all the options in single screen and focus on the particular student invigilation

Screen share feature with Secure Browser

Screen sharing for LIVE proctoring is built in, even with secured browser enabled for assessment. Secured browser will have more restriction on student actions while taking the exam as the user will be allowed to access only the assessment screen. Keyboard shortcuts like copy, paste, windows, Task manager, toggling between windows are all restricted while using secured browser. This type of assessment delivery is more suitable for high stake exams and assessments.





Application compatible with accessibility standards of Level-AA

Easyproctor application is compliant with the WCAG standard of Level A and Level AA. With this, the application can be used by all user group categories under certain disabilities.

Severity filter flags for Reviewer

Easy Proctor application is enabled with filters for flags to help and ease the proctoring for reviewer. Major flags such as No front face, More faces, Electronic items and External objects are flagged separately and reviewer can click on any of the instance and view the same in the analysed video. These flags are automatically analysed from AI engine using the in-built algorithm





Setting Correct Flags

Proctor is given option to update the analyzed flag with correct flag. Flag set by AI engine will be given and Proctor is enabled to change the flag from the list.

Headshot Mismatch &Face mismatch count

Proctor is provided with the headshot mismatch of each student along with the status like not taken, matched, not matched and error. Also, the face mismatch count of each student will get displayed to the proctor. This helps the proctor to further check on the video.



Application compatibility and application tracing on google analytics

Easy Proctor is compatible with windows and MAC machines. Further step to include more OS and versions are on its way. This application is enabled with custom variables supported for google analytics tracking. The usage of application, page visits, count of new users, region-wise usage, browser usage, average session time for the user and other parameters can also be easily tracked in real time with the integration of the Google Analytics.

Multilingual Support

Easy Proctor application supports many languages for example, English, Spanish, Kannada and Hindi, and more languages can be updated by mapping the resource English keys with the local language. In this application, the English language is set as the default language. Depending on the selection of the language, all the lables, name of the icons, information text and all the pop up messages will available to you according to the selected language





Web Tour

Quick access to context sensitive web tour is available for all the roles. This provides basic information about all the features. Users can take a walk-through at anytime.

Easy integration with assessment engine

Easy Proctor application has easy integration with other Assessment engines using API. This provides standard documentation for API integration so that any technical team can run through it for getting the application integrated





User Profile

The user can update the profile details such as profile image, name, and contact details including the email address.





Internationalization of date and time

This application is built to support multiple time zones according to the region.

Logo Preference

Depending on the requirement, the logo of the application can be customized and updated for all the roles supported.

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Notifications and bubble count

Notifications will be triggered to all the users if any activities are performed such as candidates getting the photo approval from reviewer/candidate submits the test/the reviewer provided the feedback. The count of unread notifications will be displayed as bubble count.

Password Retrieval

The password retrieval feature allows the user to reset and update the password by using their login name.





Switch User Roles

This application supports switching of the user roles from Proctor to Reviewer mode.

Why Educational Institutions are switching to Online Proctoring System?

Today, technological breakthroughs have enabled online proctoring to be as effective as traditional offline exam proctoring. The innovative steps encompassed in online easy proctoring system, the process of test hosting and attending the test can do from any part of the world at any time. That means, one can attend a proctored exam at home or at a convenient place, considering the requisites of the EasyProctor examination.

Features such as Artifical Intelligence, real time audio and video streaming of candidate and proctor controls over the exams of candidates to achieve the objective of cheat-free exams.

Excelsoft's best online examination application, EasyProctor offers an in built proctoring features. It enables the proctor to monitor the activities of the candidates during the examination and enhance their credibility. This application provides several other features that make the online exam a seamless experience.

Once you buckled up as a proctor in EasyProctor

From Dashboard

Your day as a proctor starts by taking a walk through the list of candidates presented to you by the administrator. Based on what you are up to, filter the list. Tests that are marked as LIVE proctoring need to be proctored on the present day.

Through the Calendar

Here is where the proctor set the availability. Proctor can switch the view between the week and day view. If the proctor is in a different view other than a current you can easily return to the default view, by clicking on "Today". What is essentially presented to a proctor is the availability that is set by proctor itself for the administrators to know.

View assessment Reports

Proctor can make use of the filter option to view the assessment report based on the status of the assessments

Switch to reviewer Mode

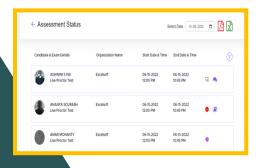
Switch to Reviewer mode to navigate to the remote proctoring application screen. In Reviewer mode, the reviewer will analyse the video recorded during the time of test and the will reviewed in online as well as offline mode. The user can switch back to the proctor role just by clicking on the LIVE Remote Proctoring.

System Check

Proctor is given the option to conduct system checks independently even before the test begins. Required Hardware components are checked from the application and the status against each check is displayed. Primarily; Webcam, Microphone, and Network speed are checked from the application. The last conducted results will be available for the proctor and the option to recheck the hardware is also provided.

Welcome back Proctor Five		Today	Upcoming Completed
Today's Exams Number of Exams : 01			
Candidate & Exam Details	Start Date & Time	End Date & Time	1
SADIYA BANU Algebra	07-12-2022 12:05 PM	07-12-2022 11:00 PM	L x
SAHIL RANA Algabra	07-12-2022 12:05 PM	07-12-2022 11:00 PM	de:





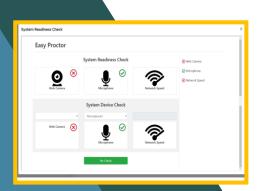


Image comparison using AI algorithm

In EasyProctor live remote proctor application, image comparison will done using Artificial Intelligence algorithm that assist the proctor with final remark

Approval from Proctor

The proctor will finally marks whether the Photo ID and the headshot images of the candidate are the same using the AI feature. If the final decision of the proctor is "Approve", it let the candidate to continue with the test, "Reject" will let the candidate know the proctor rejects the check-in and "Put on Hold" let you keep the candidate in the queue while you are seeking an expert's opinion or someone at a higher level.

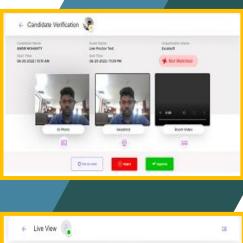
Live Chat with the candidate

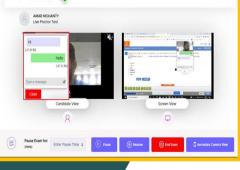
A chat window provided to the proctor as a communication channel. The candidate can make use of the chat window to communicate to the proctor for any kind of queries related to the test. This also helps to avoid the considerable malpractices.

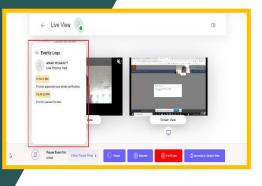
Secondary Camera for Student

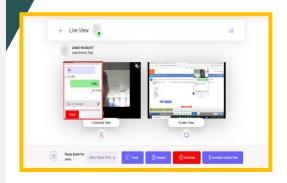
In addition to Primary camera from which only 60% of the test taking area is viewed, Easy proctor application is extended to have Secondary camera as well. Student will have to install mobile app which is integrated with Easy proctor application for using the secondary camera. Student will have to place this mobile device opposite to primary camera which covers the rest of the 40% area which primary camera cannot capture. This makes the proctoring to have complete view of student test taking area, Student view and also desktop view which justifies the invigilation correctness to the highest extent







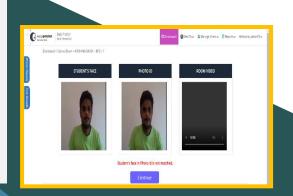




Reviewer Mode

AI based flagging and grouping it based on severity

The video of the candidate is analysed using the AI algorithm and flags. Based on the movements, the priority will identified. These severity flags are grouped based on severity (high,medium,low). The factors included to set the priorities are-Front face detection, more movements of the candidate,eye gaze(looking somewhere else other than the monitor,etc.)



Annotating the video

The proctor/reviewer can annotate the video of the student on specific time instance. A pencil tool is enabled for annotating the video, followed by adding the comment. If needed, all the annotations and comments can be cleared by using the Erase all button. The remarks provided by the proctor/reviewer can be viewed by selecting the proctor image.

Severity filter flags for Reviewer

Easy Proctor application is enabled with filters for flags to help and ease the proctoring for reviewer. Major flags such as No front face, More faces, Electronic items and External objects are flagged separately and reviewer can click on any of the instance and view the same in the analysed video. These flags are automatically analysed from AI engine using the in-built algorithm.

Setting correct flags

Depending on the AI engine analysis, the severity flags will be set and description for the flags will provided for the reviewer. The reviewer can set the correct flags, compared with the AI analysed flag. These flags will be stored as the remarks of the reviewer and the original set flag will not get updated.





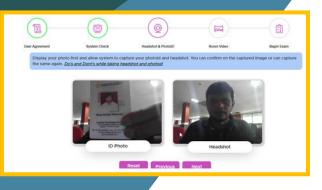
Exam with Secure Browser & Without Secure Browser

Secure Browser

If the examination is scheduled with secure browser, the candidates cannot access any other application or software or web pages apart from the assessment screen. The keyboard shortcuts like copy/paste/windows/task manager/toggling between the windows, etc. will be restricted while using the secure browser. This type of assessment delivery is more suitable for high stake exams and assessments. Screen sharing for LIVE proctoring is built in, even with secured browser enabled for assessment.

Normal Browser

There will be limited restrictions or no restrictions for student to use other windows / keyboard shortcuts while accessing assessments. This type of assessment delivery is more suitable to non-high stake exams and assessments. Selection of browser for an assessment is while scheduling the assessment by admin. Based on which student will be given option to access and launch the test.



Choosing the Proctor

Based on the availability set by the proctor, the students can view the list of proctor(s) and they have the option to select the available proctor from the list. A Proctor can be occupied with max of 8 students for LIVE proctoring.

Photo ID and Headshot Capture

Prior to exam, the candidate needs to show the photo ID and allow the system to capture your headshot. This will be automatically matched by AI engine and once approved; Student will be able to access the assessment.

Recess time during Test based on Proctor approval

Student can ask for Recess time during the assessment time and resume the assessments after completing the recess. Assessment with questions will not be displayed for student during recess time and will be continued back only after resuming the Assessment by proctor.

Video capture and sharing to Proctor - LIVE mode

The primary camera installed in the desktops and laptops will do the live proctoring. The video of the student is captured, recorded, and streamed to proctors. Proctor can view the student video from Primary camera and Secondary camera. Video is analysed using the AI engine and flagged with severities.

Chat / LIVE interactions

Easy proctor application is supported with Chat tool, integrated with Tawk box. Using this feature, Student and proctor is able to exchange textual messages within the application. This will add more security for proctor since the user is not moved out of SARAS application and chat is tracked.

This tool also enables student to get some approvals from proctor for having breaks within the assessment time. Student might get involved in copying the answers and getting answers from other sources if chat is not tracked by proctor.



