- The management application provides Virtual Classroom admin with the ability to limit the maximum number of participants

- Restrict or authorize the recording capabilities to a definite set of users in virtual classroom application

- Intuitive web based UI to modify and adjust session invitation emails

- Create/delete new and bulk users through a CSV file

- Role management of the users

- Create online content library for contents like videos and documents (for each Instructor/ Co-instructor)

- Different types of file formats viz. MS Word, MS PPT, MS Excel, PDF and videos can be uploaded also Word Doc, PowerPoint, PDF and videos can be shared without having to share screen within the live session. Content  can also be loaded from Gmail, Google Drive, Drop box, Box & Onedrive in to the library

- Meta data can be added to each uploaded file in the terms of title, description, language

- Does not require any special piece of hardware to perform Firewall Traversal.

- Record all session content: video, audio, whiteboard and presentation.

- Record and playback High definition video and presentation, up to HD 720p or higher

- Built in content management portal that allows easy user access to all recordings

- Sort recordings by various parameters such as name and duration in the management portal

- Allow users to view recording only when they access web app via password

- Fast forward, rewind and skip video of recording during playback

- The Admin/Instructor can save the recordings file on a local disk
- HTTPS Live Streaming of recorded sessions (audio/video) for higher security.
- Configure, if a particular class requires the recording to start by default on a per class basis.

- In auto-recording of a class, configure whether the presenter should or should not have the permissions to pause and restart the recording.

- A class recording is automatically available for web and mobile streaming within a certain duration of the class ending.

- Support Youtube Videos within the live classroom
- Attendees can raise their hands during the live class (Save to pdf option is also available in the live class.

- Scheduling and Solution Maintainance

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# i VIEW
Technologies

# Virtual Classroom



ONLINE EDUCATION

## IVC-5

- Customized Basic Training Course - Content Development and Support - Training on Solution - Case Flyer

- Case Briefs - Remote support on call / e-mail for guiding users to operate solution - Simulations - E-learning

- Case Studies - Integration with learning management system - Power Point Presentations - Interactivity - Videos

- Translation in Vernacular Language - Learning Games - Assessment Pack - Online Assessment Tools

- ILT Content with specialised instructional designer - Content upgradation / maintenance - One Time Centralised

 Training on features of the solution to users of various locations

- Participants can share their local screens (or any specific applications running on their local machines) within the live class

- Schedule sessions with REST Based API, Manage Users, Get attendance Reports, Manage content.

- Presenter or attendees can share any audio/video file with Shared media player.

- Teach software languages with shared code editor.

- Provide the presenter with the ability to remotely control their audio/video streams and view attendee list in the live class .

- Live Chat (Group & Private) for connected attendees

- Total number of sessions conducted, each attendees login/ logout time, total number of minutes attended, absentees etc available for attendance report.

- Reports can be downloaded in excel formats.

- Support 720p live video stream with 30 fps or higher

- Two way live audio/video collaboration, supports 5 attendees in a live session concurrently using the available bandwidth with less than 300 milliseconds of latency for real time user experience showing five live videos at any stage.

- Capability for dynamic bandwidth is intelligently built in, also matches resolution to give each user an experience for his available bandwidth. Incase, an endpoint is unable to support video + audio due to lack of bandwidth, to maintaining the continuity of the session the system makes that endpoint fallback to pure audio.

- Supports both 4:3 & 16:9 aspect ratios, minimum bit rate of 250kbps per user connection for video connection.

- Different layout adjustment with various video sizes or no video at all, display names for each participant connected in the session

- Web based scheduling interface to schedule live sessions

- Sufficient permissions for additional registered coinstructor, to schedule a session at any time, schedule sessions and ad hoc sessions mode at the same time

- Mute control (both audio & video) for Instructor

- Virtual classrooms with easy switching for users as easy as logging out from one and logging in into another session.

- Video compression based on H.264 AVC/H.264 SVC / VP 8
- Opus or AAC audio codec for audio
- Connect any endpoint which is connected to the internet using IP v4 or IP v6
- Ubiquitous HTTPS/REST protocol for content sharing
- Shared virtual whitebaord, which updates its view for all attendees in realtime.

- Presenter mode feature wherein the presenter can force all the participants to see only the presenter video and if required broadcast other videos/audio to all users. Presenter can see other user videos at the same time if required. Presenter can show the Presenter Video, self view and the speaker videos at all remote locations

- The web app and mobile apps include a feature that enables participants to text chat while in session

- Administrators can have access to registered users and can provision a centralized directory of all registered users.

- Email notifications about session scheduling, session reminder, etc.

- Personalized virtual classrooms under the management console.

- Virtual classrooms is protected by username and password authentication so that before the Instructor/Co-instructor enters, participants are placed in a virtual waiting room.

- Supports scheduled sessions and ad hoc sessions mode at the same time.

- Store back recordings in the content library automatically

- Session Recording can be downloaded in mp4 format.

- A multiple & minimum of 4 session layouts and presentation modes viz.
Full Screen Video Layout, Whiteboard/Content, Multiple Videos in Tiled Layout, Video with Whiteboard/Content

- Share desktop using screen sharing, access other users Content Library, upload and share content from desktop, plot shapes like triangle, rectangle, cube, advanced Shapes like Flow charts, Chemistry, Maps and Grids, Emoticons etc. during the session ( for Instructor/Co-instructor)

- Instructor/Co-instructor can remove the unwanted attendee from the live session
- Co-Instructor can play a video file, conduct a poll during the session
- Text tool inside the whiteboard

- Multiple image formats like JPG, PNG, JPEG etc. can be uploaded and shared during the session in Virtual classroom

- Virtual classroom can display the time lapsed and time remaining, Option to extend the duration of the class from within the session.

- Annotate on top of the shared content (like PDF, PPT and DOC) in the session ( for Instructor /Co-instructor)

- Works in Google Chrome, Mozilla FireFox web browsers without any software downloads. as it is a web based (web app) solution hence supports major operating systems like Windows, Mac and Linux.

- Authentication required by the user over OAuth2.0, or other standard SSOs if desired while joining a session

- ICE, STUN, TURN protocols and Automatic NAT firewall traversal in web app for secure connectivity over internet. The media traverse over encrypted SRTP (Secure RTP).

- Supported on Android smart phones and tablets via mobile apps

- Connect cameras and one Visualizer for showing the document with or without any external video mixer, to ensure all Live Video feeds in all the locations for any Events or Presentations or gatherings

- Perform Video conference using data card (3G,4G), broadband, leased line or any other form of connectivity.