



Virtual Classroom & Learning Management System

Online learning platform specially designed to facilitate anytime, anywhere learning

MODEL: VC LMS 02

Advanced Features

- Virtual classroom and encrypted video streaming, record and playback high definition video and presentation, up to HD 720p
- Create interactive, multimedia rich courses using content library with unlimited cloud storage
- Share content through HTTPS/ REST protocol
- Enhance course effectiveness with exhaustive assessment options, reports and analytics
- Shared virtual whiteboard (with text tool), updates its view for all attendees in realtime
- Supports Youtube videos within live classes and content loading from Gmail, Google drive etc in to the library

Application Areas

Higher Educational Institutes

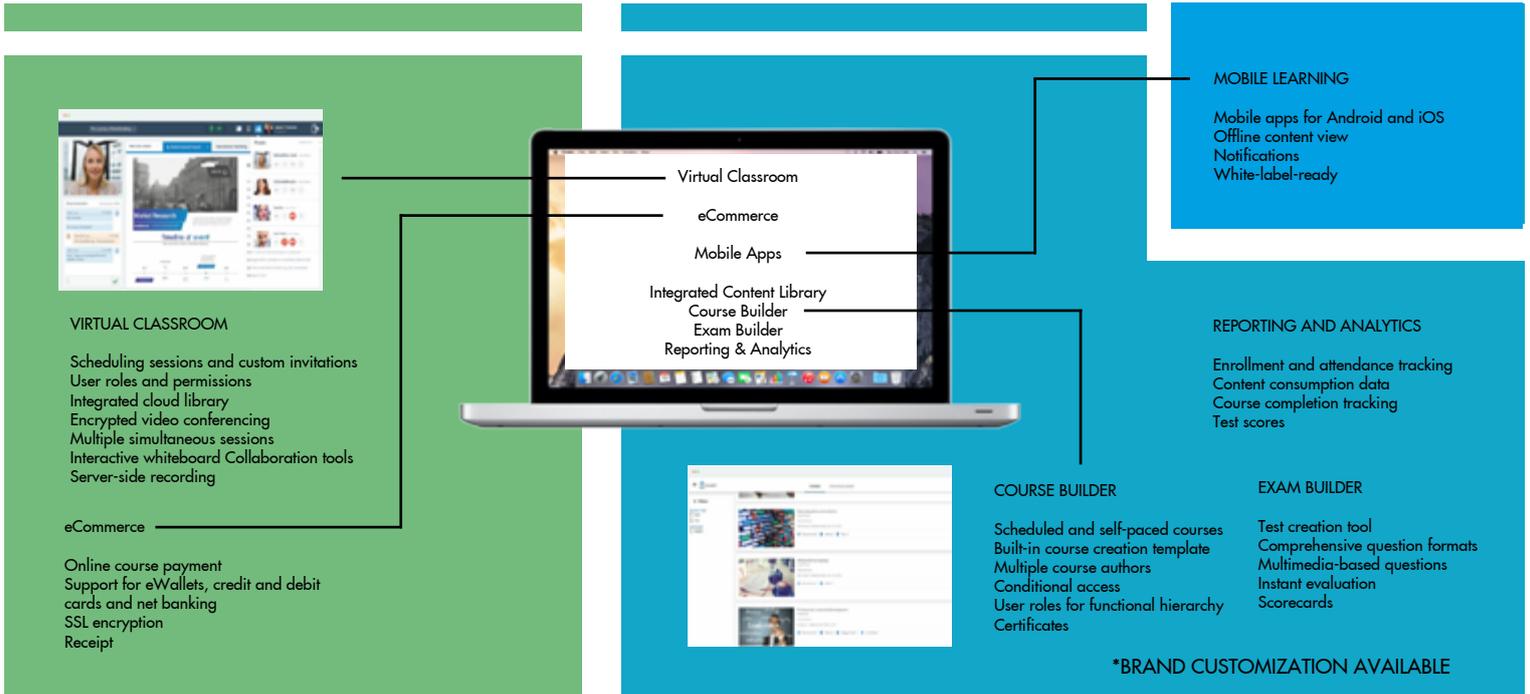
Test Prep Institutes - Corporate Offices

Vocational and Career Institutes, Training Centers etc.

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SOFTWARE INTERFACE



- Support concurrent sessions and multiple attendees in each session
- Supports both 4:3 & 16:9 aspect ratios and various layout adjustment with different video sizes
- Register multiple users
- 4 session layouts and presentation modes viz
 - 1) Video with Whiteboard/Content
 - 2) Multiple Videos in Tiled Layout
 - 3) Full Screen Video Layout
 - 4) Full Screen Whiteboard/Content
- Supports multilingual interfaces including English and other languages
- Capable to integrate with other learning applications
- M-Learning (Native mobile apps / record / flip/ connect)
- Supported on Android smart phones and tablets via mobile apps

USER INTERFACE

ADMIN



- Brings onboard faculty and students
- Manages users, roles and permissions
- Monitors teacher and learner activities
- Draws insights from multiple reports
- Manages eCommerce activities
- Makes data-driven decisions and uncovers new training/business possibilities

Reduce IT expenditure and relocate the savings to strategic IT initiatives

INSTRUCTOR



- Creates live classes or distance learning courses
- Builds tests and sets grading criteria
- Schedules and delivers live classes
- Makes use of collaboration tools to engage students
- Conducts exams to test student understanding

Create rich and reusable training content library with unlimited cloud storage

LEARNER



- Joins and attends live classes
- Enrolls in distance learning courses
- Pays course fee
- Accesses learning material
- Takes tests
- Shares feedback

Improve training accessibility with ready-to-install learner mobile application for Android and iOS

- User/ Role Management and Customization at Administrative, Student and Teacher level
- Virtual Classroom admin with the ability to limit the maximum number of participants and restrict or authorize the recording capabilities to a definite set of users
- Two way live audio/video collaboration basis the available bandwidth with less than 300 milliseconds of latency for real time user experience showing five live videos at any stage
- Supports multi tenant architecture where users are registered per tenant
- Instructor managed mute control for both audio & video
- Supports H.264 AVC/H.264 SVC or VP 8 based video compression and supports AAC or Opus audio codec for audio
- Instructor/Co-instructor can annotate on top of the shared content (like PDF, PPT and DOC) in the session
- Additional registered co-Instructor are allowed with sufficient permissions, to schedule a session at any time with ability to share desktop using screen sharing, play a video file, conduct a poll during the session, access others 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. and rights to remove the unwanted attendee from the live session
- Supports multiple students in single virtual classroom session
- View attendee / school list in the live class also remotely control audio/video streams
- Display names for each participant connected in the session
- Discussion forum - 24x7 mentoring, peer to peer learning
- Tests and assignments with automated instant results
- Performance analytics and reports
- Shared media player to share any audio/video file (streamed directly from the cloud)
- Web based scheduling interface to schedule live sessions
- Send SMS-invites, Email notifications about session scheduling, session reminder, etc. to all registered participants with a click of button
- Live group and private chat
- Shared code editor enabling the teaching of software languages
- Create/delete new and bulk users through a CSV file
- Get attendance report including total number of sessions conducted, each attendees login/logout time, total number of minutes attended, absentees etc. also retrieve and downloaded in excel format
- Course certificate for learners
- Upload and share multiple image formats like JPG, PNG etc. during the virtual classroom session
- Time lapsed and time remaining option to extend the duration of the class from within the virtual classroom session
- Provision to have a centralized directory by the administrator of all registered users
- Registered users access based on administrator privileges
- Access to virtual classrooms protected by username and password authentication so that before the Instructor/Co-instructor enters, participants are placed in a virtual waiting room.

NETWORK / STORAGE / RECORDING / PLAYBACK

- Virtual classroom - never switched off, live and record
- Minimum 5TB of cloud storage to store session recordings
- Upload files with minimum of 1 GB file size; add meta data (title, description, language) to each uploaded file
- Delivered to students regardless of their locations on standard PCs/Laptops through standard WiFi & 4G internet connection
- Scheduled sessions and Ad hoc sessions mode at the same time
- 5 simultaneous video streams and 20 simultaneous audio stream
- Web based (web app) with automatic NAT firewall traversal (no extra hardware required), ICE, STUN, TURN protocols for secure connectivity over Internet. Works in Google Chrome, Mozilla FireFox web browsers without any software downloads
- Supports major operating systems like Windows, Mac and Linux
- Cloud based online content library - updated and accessible
- Class recording automatically available for web and mobile streaming within a certain duration of the class ending
- The media traverse over encrypted SRTP (Secure RTP)
- Store recording back in the content library automatically, download in mp4 format
- Connect any endpoint which is connected to the internet using IP v4 or IP v6
- Intelligent built in capability for dynamic bandwidth, resolution matching; fallback to pure audio maintaining the continuity of the session in low bandwidth
- Join session with authentication by the user over OAuth2.0, or other standard SSOs if desired
- Record and playback High definition video and presentation, support 720p live video stream with 30 fps; fast forward, rewind and skip video of recording during playback
- Stream session recording via HLS in Chrome/Firefox
- Admin/Instructor can save the recordings file on a local disk

*Due to continuous product development, the specifications may change without prior notice.

**Product image(s) are for illustrative purposes only and may differ from the actual product.



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