Video

-teacherToken: String

+ saveVideoStreamin
+ saveScreenSharing
+ watchVideo()

CourseApproval

- courseID: String

+ getCourse()
+ approveCourse()
+ disapproveCourse()

CourseAnalytics

+ viewTopCourses()
+viewTrendingCourses()

Recommendations

+ viewRecommendation()
+ getUserViewHistory()
+ tuneRecommendations()

Messaging

- receiverToken: String
- senderToken: String
- Message: String
- roomID: String
- Conversation: String[ ]

+ setRoomID()
+ sendMessage()
+ addAttachment()
+ viewMessage()
+ deleteMessage()
+ deleteConversation()
+ setUser()
+ setReceiverID()
+ setSenderID()

Room

- roomID: String
- userToken: String
- participants: String[ ]
- Channel: String
- Passcode: Password

+ createRoom()
+ createChannel()
+ deleteRoom()
+ editRoom()
+ kickUser()
+ changePrivacy()
+ joinRoom()
+ leaveRoom()
+ lockRoom()
+ unlockRoom()

Notification

- notificationID: String
- notificationMessage: String
- NotificationTime: String

+ broadcastNotification()
+ removeNotification()
+ modifyNotification()
+ setNotification()
+ sendNotification()
+ deleteNotification()

UserHistory

userToken: String

+ addCourseCategory()
+ getViewAllCourse

Feedback

- rateToken: String
- userToken: String

+ rateTeacher()
+ rateCourse()
+ editRating()

AccountManagement

- userToken: String

+ blockAccount()
+ unblockAccount()
+ suspendAccount()

VideoBroadcasting

- userToken: String
- Channel: String
- Participants: String[ ]

+ startBroadcasting()
+ endConnection()
+ stopBroadcasting()
+ getChannel()
+ switchToScreenSharing()
+ joinBroadcast()
+ leaveBroadcast()
+ switchToScreenSharing()
+ onStreamStart()
+ startRTCConnection()

DatabaseConnection

- mongoose: mongo
- url: string

+ connectDB()
+ closeDB()

Announcements

- techerToken: String
- message: String

+ delete Announcement

SmartZoom

- roomID: String

+ enableSmartZoom()
+ disableSmartZoom()

AudioCall

- userToken: string [ ]
- receiverToken: String[ ]
- participants: String[ ]
- roomID: String [ ]

+ setRoomID()
+ getChannel()
+ pushToTalk()
+ createChannel()
+ startAudioCall()
+ joinAudioCall()
+ startPrivateAudioCall()
+ leaveAudioCall()
+ rejectCall()
+ acceptCall()

TodayEvents

- studentToken: String

+ checkTodayEvents()
+ makeNotification()

AdminPanel

+ viewAdminPanel()
+ viewBlockedAccounts()
+ viewApprovalRequest()
+ viewApprovedCourses()
+ viewPendingCourseRequest()
+ viewPendingAccountRequest()
+ viewVisitorAnalytics()
+ viewTopCourseAnalytics

WebSocket

- channel: String
- RTCMultiConnection: Object

+JSONStrinfyMessage()
+ openSocket()
+ broadcastCall()
+ socketResponse()
+ getConnection()
+ listenConnection()
+ broadcastMessage()
+ endConnection()

ActionRecognition

+ trainData()
+ createModel()
+ getVideoFrame()
+ predictWhiteBoard(
+ predictAction()
+ getActionLocation()
+ cropFrame()
+ appendFrame()
+ sendFrames()

ScreenSharing

- userID: string
- channel: String

+ startScreenSharing()
+ stopScreenSharing()
+ makeConnection()
+switchToVideoBroadcasting()
+ getChannel()
+ endConnection()
+ joinScreenSharing()
+ leaveScreenSharing()
+ switchToBroadcasting()