

|  |  |  |
| --- | --- | --- |
|  |  |  |

|  |  |
| --- | --- |
| **Document title** | **Whiteboard** |
| **Document reference number** | **UEL -** |
| **Project name** | **UNISA e-Content 20140363** |
| **Unisa Department** | **Department of Economics** |

Table of Contents

1 Description of the component 5

2 How to Install The component 5

3 how to use the component 5

Document sign-off

This document has been seen and accepted by the following people:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Title | Date | Signature |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Compiler | Purpose | Change Summary |
| <yyyymmdd> | Name Surname | Document Created,  Internal Review,  External Review,  etc | Initial release,  Updates based on internal review,  Updates to section xxx,  etc |
|  |  |  |  |
|  |  |  |  |

# Description of component

Interactive [online whiteboard](https://www.learncube.com/pages/online-whiteboard.html) can be easily integrated into existing systems using our REST API

# Whiteboard Feature:

* Real-time collaboration
* In-built file repository
* Supports most common file formats PDF, Images, Video, Audio
* Synchronized video and audio playback
* Integrated with YouTube and Google Docs
* Easy to use drawing tools: pen, highlighter, shapes, text
* Zoom and Pan (Gesture based on mobile)
* Student and teacher/presenter roles and permissions, to limit file uploads and whiteboard control

# Whiteboard API Documentation

#### There are 3 steps to initialize a Whiteboard:

* 1. Pass a unique **token** and a **user\_id** as URL parameters to a custom endpoint on our server

|  |  |
| --- | --- |
| **URL** | HTTPS://{{LEARNCUBE\_ENDPONT}}/classv3/   {{LEARNCUBE\_ENDPONT}} can be a subdomain on learn-cube.com or a custom domain pointing to our server. The domain is also used to authenticate the POST |
| **Parameters** | **token**: [alphanumeric] Unique token from your system  **user\_id** : [alphanumeric] User ID from your system |
| **Example** | HTTPS://{{LEARNCUBE\_ENDPONT}}/classv3/?token=ABC123&user\_id=111   Link the URL up to your existing system. (As a href or button) |

* 1. We respond with a **connect\_lesson** request to your server to validate the **token** and **user\_id**

|  |  |
| --- | --- |
| **Method** | POST |
| **URL** | HTTPS://{{YOUR\_SERVER}}/ |
| **Parameters** | **request**: “connect\_lesson”  **token**: [alphanumeric] Same as received in the URL in step 1  **user\_id**: [alphanumeric] Same as received in the user\_id in step 1 |
| **Example** | HTTPS://{{YOUR\_SERVER}}/virtualclassroom/?request=connect\_lesson&token=ABC123&user\_id=111 |

* 1. Your server responds via JSON verifying if the class should start and returns the users parameters.

|  |  |
| --- | --- |
| **Parameters** | **status**: [true or false]  **is\_tutor**: [true or false] Used to identify if user is a Tutor, for placement of video and to define classroom functions only the Tutor has access to.  **id**: [alphanumeric] Same as received in the user\_id in step 1  **full\_name**: [alphanumeric] User's Name for use in chat and profile  **avatar**: [alphanumeric] Url of the user's avatar/profile image. i.e https:\/\domain.com\/images\/avatar.png  **record**: [true or false] Records MP4 of video streams \*Beta Feature |
| **Format** | JSON Content-Type: application/json;charset=UTF-8 |
| **Successful Response** | Example:  Request: {"request":"connect\_lesson","token":"1235678","user\_id":"111"}  Response: {"status":true, "is\_tutor":false, "id":111,"full\_name":"John Smith", "avatar":"https:\/\domain.com\/images\/avatar.png", "record":false} |
| **Error Response** | Example:  Request: {"request":"connect\_lesson","token":"1235678","user\_id":"111"}  Response: {"status":false, "message":"Class not allowed, student has |

* 1. You can track time spent and end a whiteboard session by using the **end\_lesson** function.

|  |  |
| --- | --- |
| **Method** | POST |
| **URL** | HTTPS://{{YOUR\_SERVER}}/ |
| **Format** | JSON Content-Type: application/json;charset=UTF-8 |
| **Parameters** | **request**: "end\_lesson" or crash\_lesson  **token**: [alphanumeric] Same as received in the URL in step 1  **time**: [integer] Class duration in seconds, the time from “start\_class” call, until "end\_lesson" call) |
| **Example** | HTTPS://{{YOUR\_SERVER}}/virtualclassroom/?request=end\_lesson&token=ABC123&time=611 |
| **Successful Response** | Example:  Request: {"request":"end\_lesson","token":"ABC123", "time":611}  Response: {"status":true}   If “status:true” is returned the class is set as “started” and connect the video stream between the student and teachers, once the video streams are connected and the class timer starts. |