# Platform Integration with Existing LMS

General communication overview for Integration between existing LMS solutions with Simulanis LMS.

The partner LMS will be provided with **Client Id** and **Client Secret** keys to be able to gain access to administrative control API endpoints.

Contextual Wireframe - https://xd.adobe.com/view/b2e5cf6e-1104-45e2-8ae6-70c3915c24eb-e7b6

Authentication Flow for Administrative Control
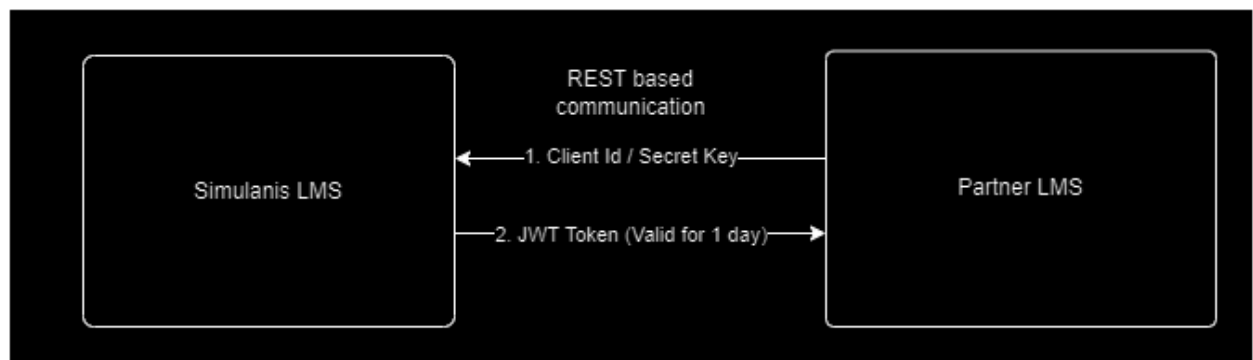
Once the token is acquired this will have access to multiple REST API endpoints.

1. API to retrieve the list of courses along with the list of platforms they are available on.
2. API to enroll a user in a course.
3. API to unenroll a user from a course.
4. API or to initiate a course for a user. (**Redirect URI for the module**)
5. API to monitor the progress of a user within a course.
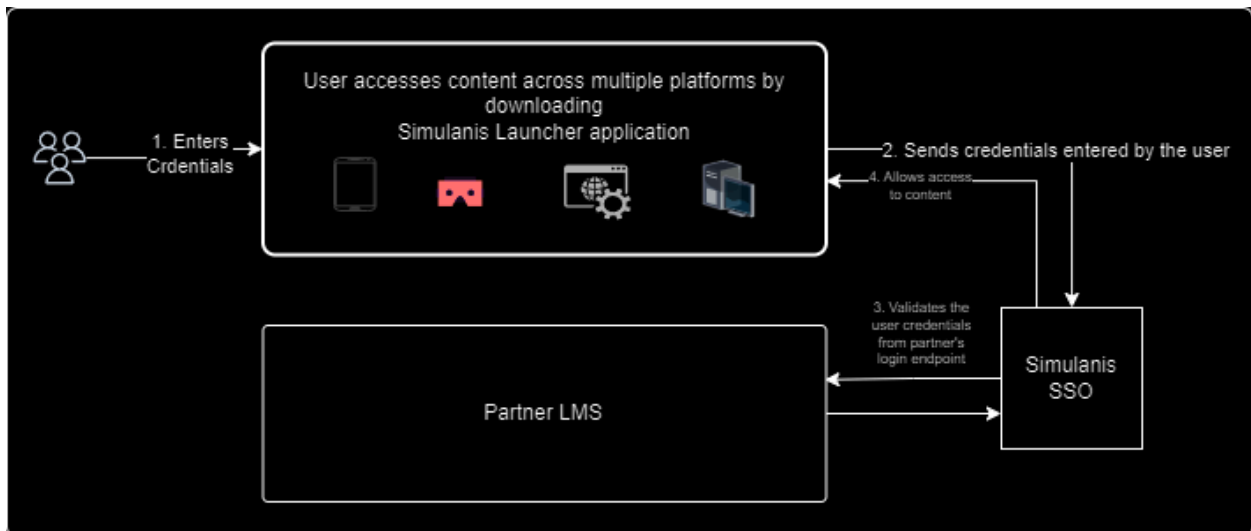
Requirements from Partner LMS -

1. An API Endpoint to validate user credentials to allow cross-platform experience without having to make the user maintain separate credentials on Simulanis LMS.

User Flow for accessing modules (Web)
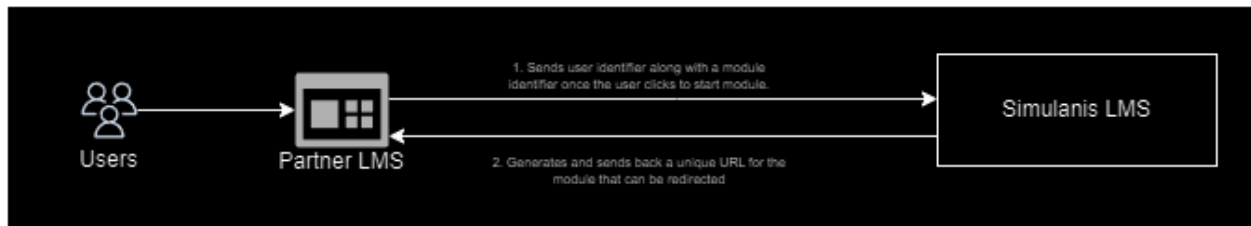
User Flow for accessing modules (Other Platforms)

1. Endpoint to generate a token

Authenticate client Id and secret. Sends back a JWT token with access to perform further operations.

Request

Method	URL
POST	https://sso.simulanis.io/api/client/authenticate

Type	Params	Values
POST POST	clientId clientSecret	string string

auth_token

auth_token must be sent with all client requests in the "**Authorization**" header. The auth_token helps the server to validate the request source.

Response

Status	Response

200	{
	    "auth_token": <auth_token>
	}
	
	auth_token(**string**) - all further API calls must have this key in header

422	{"message":"BAD CREDENTIALS"}
500	{"message":"Something went wrong! Please try again later."}

2. Endpoint to retrieve module list

Retrieve a list of modules with their basic details and platform information.

Request

Method	URL
GET	https://sso.simulanis.io/api/resource/module/list

Header	Value
Authorization	Bearer <auth_token>

Response

Status	Response
| 200 | ```json
{
    "data": [
        {
            "id": "223cd5ff-6d0d-11ee-9fe1-4f6e3bdea8ae",
            "name": "Tablet Deblistering",
            "short": "A short description for the module",
            "description": "A rich text format description string",
            "available_platforms": [
                "desktopvr",
                "desktop",
                "mobile",
                "standalonevr",
                "web"
            ],
            "languages": [
                "English"
            ],
            "sector": "Pharmaceutical",
            "thumbnail": "http://localhost:4019/images/1686286154149.png"
        }
    ]
}
``` |

401	{"message":"UNAUTHORIZED"}
500	{"message":"Something went wrong! Please try again later."

3. Endpoint to enroll a user in modules (UPDATED - 27-11-2023)

Enroll / Assign a module to a user.

Request

Method	URL
POST	https://sso.simulanis.io/api/resource/module/assign

Header	Value
Authorization	Bearer <auth_token>
Content-Type	application/json

Either Email Id or uid is required. UID can be any unique user identifier.*

Body Parameter

Type	Params		Datatype	Comments
POST POST	resources user		string[] JSON	Array of moduleIds
		name	Object	required
		email	string	either email or uid is required.
		uid	string	
		phone	string	optional
		avatar	string	optional // user profile picture url
		gender	string	optional // male|female
		address	string	optional

			string	

Response

Status	Response
200	```{ "message": "Modules assigned to the user successfully", "status" : true }```
422	```{ "message": "Invalid Module Ids / User Details", "status" : false }```
401	`{"message":"UNAUTHORIZED"}`
500	`{"message":"Something went wrong! Please try again later."}`

4. Endpoint to unenroll / revoke access from a user for modules (UPDATED - 27-11-2023)

Request

Method	URL
POST	https://sso.simulanis.io/api/resource/module/revoke

Header	Value
Authorization	Bearer <auth_token>
Content-Type	application/json

Body Parameter

Type	Params	Datatype	Comments
POST	resources	string[]	array of moduleIds
POST	uid	string	email | uid

Response

Status	Response

200	```json
	{
	    "message": "Module access revoked from the user successfully",
	    "status" : true
	}```

422	```json
	{
	    "message": "Invalid Module Id / User ID",
	    "status" : false
	}```

401	`{"message":"UNAUTHORIZED"}`
500	`{"message":"Something went wrong! Please try again later."}`

5. Endpoint to initiate a web module

Generates a uniquely identifiable session based link for the module for the current user.

Request

Method	URL
POST	https://sso.simulanis.io/api/resource/web

Header	Value
Authorization	Bearer <auth_token>
Content-Type	application/json

Body Parameter

Type	Params	Datatype	Comments
POST	moduleId	string	
POST	uid	string	email | uid

Response

Status	Response

200	```json
	{
	    "url":
	"https://simulanis.blob.core.windows.net/weblauncher/index.html?token=eyJhb
	ciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2tlbiI6ImV5SmhiR2NpT2lKSVV6STFOaUlzSW5S
	WNDSTZJa3BYVkNKOS5leUpwWkNJNk5ETTVMQ0psYldGGcGJDSTZJbUZrYldsdVFIUjFkbk4xWkM1
	mIyMGlMQ0oxYzJWeVVtVFNaU0k2SW05eVoyRnVhWHBoZEdsdmJpSXNJbWxoZENJNk1UWTVOelUx
	mpreU5Dd2laWGg3SWpveE56UXdOelUyT1RJMGZRLjNmM3R1b1ZwM0NZUllnR2EySXpFZE1kcksw
	npUUHVHX3NBSC1DX0xzWXMiLCJwYXRoIjoiaHR0cHM6Ly9sZWFybmJhY2tlbmQuc2ltdWx",
	    "status" : true
	}
	``

422	```json
	{
	    "message": "Invalid Module Id / User ID",
	    "status" : false
	}
	``

401	```json
	{"message":"UNAUTHORIZED"}
	``

500	```json
	{"message":"Something went wrong! Please try again later."}
	``

Header	Value
Content-Type	application/json

6. Endpoint to track user progress against a module (UPDATED 27-11-23)

Request

Method	URL
POST	https://sso.simulanis.io/api/resource/user/analytics

Header	Value
Authorization	Bearer <auth_token>
Content-Type	application/json

Body Parameter

Type	Params	Datatype	Comments
POST POST	moduleId uid	string string	 email | uid

Response

Status	Response

```
200     {
            "data": {
                "sessionCounts": {
                    "all": 10,
                    "guided": 2,
                    "unguided": 8
                },
                "durations": {
                    "all": {
                        "sum": {
                            "inSeconds": 25500,
                            "humanReadable": "7 Hrs 5 Mins"
                        },
                        "average": {
                            "inSeconds": 2550,
                            "humanReadable": "42 Mins 30 Secs"
                        }
                    },
                    "guided": {
                        "sum": {
                            "inSeconds": 2430,
                            "humanReadable": "40 Mins 30 Secs"
                        },
                        "average": {
                            "inSeconds": 1215,
                            "humanReadable": "20 Mins 15 Secs"
                        }
                    },
                    "unguided": {
                        "sum": {
                            "inSeconds": 23070,
                            "humanReadable": "6 Hrs 24 Mins"
                        },
                        "average": {
                            "inSeconds": 2883,
                            "humanReadable": "48 Mins 3 Secs"
                        }
                    }
                },
                "errors": {
                    "all": 2,
                    "guided": 0,
                    "unguided": 3
                },
                "maxErrorProneTask": "Remove Collection tray",
                "maxTimeTakingTask": "Pre startup checklist",
```

```
"tasks": [
    {
        "id": 1,
        "title": "Open log book & fill",
        "priority": 1,
        "taskDesc": "Open log book & fill",
        "isCritical": true,
        "plannedTime": "20"
    },
    {
        "id": 2,
        "title": "Pre startup checklist",
        "priority": 2,
        "taskDesc": "Pre startup checklist",
        "isCritical": true,
        "plannedTime": "20"
    },
    {
        "id": 3,
        "title": "Remove cleaned label",
        "priority": 3,
        "taskDesc": "Remove cleaned label",
        "isCritical": false,
        "plannedTime": "20"
    },
    {
        "id": 4,
        "title": "Place 'In- Process' label",
        "priority": 4,
        "taskDesc": "Place 'In- Process' label",
        "isCritical": false,
        "plannedTime": "20"
    },
    {
        "id": 5,
        "title": "Power up the machine",
        "priority": 5,
        "taskDesc": "Power up the machine",
        "isCritical": true,
        "plannedTime": "20"
    },
    {
        "id": 6,
        "title": "Place Blister in the machine",
        "priority": 6,
        "taskDesc": "Place Blister in the machine",
```

```json
                    "isCritical": false,
                    "plannedTime": "20"
                },
                {
                    "id": 7,
                    "title": "Remove Collection tray",
                    "priority": 7,
                    "taskDesc": "Remove Collection tray",
                    "isCritical": false,
                    "plannedTime": "20"
                },
                {
                    "id": 8,
                    "title": "Place Descciant in tray",
                    "priority": 8,
                    "taskDesc": "Place Desiccant in tray",
                    "isCritical": false,
                    "plannedTime": "20"
                }
            ],
            "lastIteration": {
                "id": 68,
                "uuid": "a625509c-c2dd-49ca-a003-423a57593d26",
                "mode": "UNGUIDED",
                "additionalId": "english",
                "resourceId": "dcaca3bf-1b65-43f1-b1a6-c364811f463d",
                "userId": "92c6c5dd-db17-4833-aac1-63d6a92bff89",
                "startTime": "2023-11-16T14:35:25.172Z",
                "endTime": "2023-11-16T15:39:40.740Z",
                "createdAt": "2023-11-16T14:35:25.174Z",
                "updatedAt": "2023-11-16T14:35:40.741Z",
                "time": {
                    "inSeconds": 3855,
                    "humanReadable": "1 Hrs 4 Mins"
                },
                "errors": 2
            },
            "sessions": [
                {
                    "id": 68,
                    "uuid": "a625509c-c2dd-49ca-a003-423a57593d26",
                    "mode": "UNGUIDED",
                    "additionalId": "english",
                    "resourceId": "dcaca3bf-1b65-43f1-b1a6-c364811f463d",
                    "userId": "92c6c5dd-db17-4833-aac1-63d6a92bff89",
                    "startTime": "2023-11-16T14:35:25.172Z",
```

```
                            "endTime": "2023-11-16T15:39:40.740Z",
                            "createdAt": "2023-11-16T14:35:25.174Z",
                            "updatedAt": "2023-11-16T14:35:40.741Z",
                            "time": {
                                "inSeconds": 3855,
                                "humanReadable": "1 Hrs 4 Mins"
                            },
                            "errors": 2
                        },
                        {
                            "id": 69,
                            "uuid": "da62589c-c2dd-49ca-a003-423a57593d28",
                            "mode": "UNGUIDED",
                            "additionalId": "english",
                            "resourceId": "dcaca3bf-1b65-43f1-b1a6-c364811f463d",
                            "userId": "92c6c5dd-db17-4833-aac1-63d6a92bff89",
                            "startTime": "2023-11-14T14:35:25.172Z",
                            "endTime": "2023-11-14T15:37:40.740Z",
                            "createdAt": "2023-11-16T14:35:25.174Z",
                            "updatedAt": "2023-11-16T14:35:40.741Z",
                            "time": {
                                "inSeconds": 3735,
                                "humanReadable": "1 Hrs 2 Mins"
                            },
                            "errors": 4
                        },
                        {
                            "id": 70,
                            "uuid": "da62559c-c2dd-49ca-a003-423av7593d29",
                            "mode": "UNGUIDED",
                            "additionalId": "english",
                            "resourceId": "dcaca3bf-1b65-43f1-b1a6-c364811f463d",
                            "userId": "92c6c5dd-db17-4833-aac1-63d6a92bff89",
                            "startTime": "2023-11-11T14:35:25.172Z",
                            "endTime": "2023-11-11T15:38:40.740Z",
                            "createdAt": "2023-11-16T14:35:25.174Z",
                            "updatedAt": "2023-11-16T14:35:40.741Z",
                            "time": {
                                "inSeconds": 3795,
                                "humanReadable": "1 Hrs 3 Mins"
                            },
                            "errors": 4
                        },
                        {
                            "id": 108,
                            "uuid": "108",
```

```
                                "mode": "UNGUIDED",
                                "additionalId": "english",
                                "resourceId": "dcaca3bf-1b65-43f1-b1a6-c364811f463d",
                                "userId": "92c6c5dd-db17-4833-aac1-63d6a92bff89",
                                "startTime": "2023-02-16T14:35:25.172Z",
                                "endTime": "2023-02-16T15:39:40.740Z",
                                "createdAt": "2023-11-16T14:35:25.174Z",
                                "updatedAt": "2023-11-16T14:35:40.741Z",
                                "time": {
                                    "inSeconds": 3855,
                                    "humanReadable": "1 Hrs 4 Mins"
                                },
                                "errors": 2
                            }

                    ]
            },
            "status": true
    }
```

422	``` { "message": "Invalid Module Id / User ID", "status" : false } ```
401	`{"message":"UNAUTHORIZED"}`
500	`{"message":"Something went wrong! Please try again later."}`

Header	Value
Content-Type	application/json