

How to use the API?

1. User Authentication

With effect from July 2019, LumiNUS API will not provide authentication service. It is connection NUS ADFS server via ADFS Authorization code flow. If you just need authentication service, please approach NUS IT for such request. If you need to use other LumiNUS APIs besides the authentication, you can go to nTouch (<https://ntouch.nus.edu.sg/ux/myitapp/#/catalog/category?type=SRM&id=IDGAA5V0FAKXWAQI272ZQH49CHRSU9&providerSourceName=srm>), then click on **AppID for ADFS OAuth Client Integration** to submit your request.



Here are some of the useful information

- AD FS Scenarios for Developers: <https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/overview/ad-fs-openid-connect-oauth-flows-scenarios#authorization-code-grant-flow>
- Official site for OAuth 2.0: <https://oauth.net/2/>.
- Useful tutorial here:
 - <https://www.digitalocean.com/community/tutorials/an-introduction-to-oauth-2>
 - <https://blog.scottlogic.com/2015/03/09/OAUTH2-Authentication-with-ADFS-3.0.html>




If you simply need the login component for your application, please approach the staff who is fronting this project. The staff will then contact Messaging Admins team on this.

2. Example

You are interested in the below API. On top of the the indicated request parameters required by the API, there are required request header (subscription key) for calling the API.

If the API's response is "401 Unauthorized", it means that the *Bearer* is needed for the Authorization Headers.

Request

Request URL
<https://luminus.azure-api.net/module/?sortBy=&offset=&limit=&where=&populate=>  Example of the API

Request parameters

List of parameters specifically for this API	sortBy (optional)	string	
	offset (optional)	integer	Format - int32.
	limit (optional)	integer	Format - int32.
	where (optional)	string	
	populate (optional)	string	Accepted populate entities: creator, lastUpdatedUser, faculty, department, feedbackSender, hiddenMenu, termDetail, acadCareerDetail

Request headers

Ocp-Apim-Subscription-Key	string	Subscription key which provides access to this API. Found in your Profile .
Authorization	string	OAuth 2.0 access token obtained from <i>id3code</i> .

Your subscription key which is required to call all the APIs.

Below is an example of code sample in different languages. Include the *authorization header (Bearer)* if needed.

Code samples

Curl C# Java JavaScript ObjC PHP Python Ruby

```
@ECHO OFF
curl -v -X GET "https://luminus.azure-api.net/module/?sortBy={string}&offset={integer}&limit={integer}&where={string}&populate={string}"
-H "Ocp-Apim-Subscription-Key: {subscription key}"
-H "Authorization: {access token}"
--data-ascii "{body}"
```