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| Training Supervised by: | **KRISHNA BODDULURI** |
| Training Task #: | **ASSIGNMENT12012019** |
| Training Resource Materials: | **Github Documentation and Github Community and 0ther online resources** |
| Training Task Date: | **12/16/2019** |
| Task Due Date: | **12/30/2019** |
| Task Submitted Date: | **12/30/2019** |
| Github link: | **PFB** |
| Technologies used for Training | **GitHub, Security, LDAP** |

**Task Description/Requirement:**

**Learn how the GitHub Organization and user API works. And Capture the difference between the UserID, NameId and Login using the Github V4 GraphQL API.**

**High Level Synopsis:**

**Here for this Assignment I took the Organization CenturyLink as an Example and explained how we are calling the Users API.**

Find below the sample user node from the Organization.

Sample User Node:

{

"cursor": "Y3Vyc29yOnYyOpHOAAiB1Q==",

"node": {

"samlIdentity": {

"nameId": "Shane.Zellmann@CenturyLink.com"

},

"guid": "d6f6dd04-d576-11e9-9e0c-a274c8373b6d",

"user": {

"name": null,

"id": "MDQ6VXNlcjU1MjQ5OTUx",

"login": "szellma-sma",

"email": ""

}

}

}

There are 2 fields available in GitHub to validate the user by email.

1. NameId

This field is under the samlIdentity.

A screenshot of a cell phone

Description automatically generated

When the user requested access to the Organization, GitHub team will invite the user using the below procedure. Here we are using SAML Built-in Authentication Available in GitHub.

A screenshot of a cell phone

Description automatically generated

At the time of inviting the user to the Organization we are using the below details.

GitHub username <Can be different from CUID>

Email <This will be Centurylink email>.

User will receive an email with a link, If the use that link to get access to Organization. His email will be stored under Organization>User> SamlIdentity> NameID.

So whoever are using the CenturyLink Organization will have their NameId stored under Org.

We can user this NameId to validate the User’s mailId while getting the user details.

Source:

<https://help.github.com/en/enterprise/2.16/admin/user-management/allowing-built-in-authentication-for-users-outside-your-identity-provider>

1. Email :

This filed contains the primary email addresses stored in User Account. And email will be returned in the node only if the user set their email as public.

A screenshot of a cell phone

Description automatically generated

This is not a mandatory field, We cannot expect every user to set up their email as primary and make it as public.

But still we are comparing this field in OR Condition along with NameId to fetch the user details using mail Id.

**I acknowledge that this document can be supplied to USCIS in compliance with CPT/OPT/STEM OPT audit:**

**Output:**