**Access Outlook Email using Typescript**

In order to access organization Outlook emails by using Typescript, you will need to use the **Microsoft Graph API.** This requires registering an application in Azure AD, obtaining the necessary permissions, and using a method to authenticate and access emails.

**Prerequisites:**

1. Azure AD Application: Register your application in Azure AD portal
2. Permissions: Grant “Mail.Read” permission your application
3. Authentication: Use OAuth2 for authentication

**Step1: Register your application in Azure AD**

1. Go to Azure Portal ( <https://portal.azure.com/>)
2. Navigate to \*\*Azure Active Directory\*\* => \*\*App registrations\*\* => \*\* New registration \*\*
3. Name your app and set the redirect URI ( you can use ‘https://localhost’ for development)
4. After registering is done, note down the \*\*Application (client) ID \*\* and \*\*Directory (tenant)ID\*\*
5. Go to \*\*Certificates&secretes\*\* and create a new client secret . Note down the secret value

**Step2: Install required packages**

Install the necessary packages using npm

npm install @microsoft/Microsoft-graph-client @azure/identity dotenv

**Step3: Create a method to access Outlook emails**

* Create a file named “emailsUtils.ts” and add the following code:

import {Client} from “Microsoft/Microsoft-graph-client”;

import InteractiveBrowserCredentials} from “@azure/identity”;

import “isomorphic-fetch”;

import \* as dotenv from “dotenv”;

dotenv.config();

const tenantID=process.env.Tenant\_ID;

const clientID=process.env.Client\_ID;

const clientSecret=process.env.Client\_Secret;

const credential=new InteractiveBrowserCredential({

tenantID,

clientID,

clientSecret

});

const client=Client.initWithMiddleware({

authProvider:async(done) =>{

try{

const tokenResponse=await credential.getToken(<https://graph.microsoft.com/.default>);

done(null, tokenResponse.token);

}catch (error){

Done(error, null);

}

},

});

Export const getEmails=async()=>{

try{

const response=await client.api(“/me/messages”).get();

return response.value;

}catch(error){

console.erro(“error getting emails:”, error);

}

};

//Usage example

getEmails().then(emails=>{

emails.forEach(email=>{

console.log(‘Subject:${email.subject}’);

console.log(‘From:${email.from.emailAddress.name}’);

console.log(‘Received:${email.recievedDateTime}’);

});

});

**Step4: Set env variables**

Create a ‘.env’ file in the root directory of your project with the following contnt

Tenant\_ID= yourTenantID

Client\_ID= your ClientID

Client\_Secret= your SecretID

**Step5: run the script**

Make sure you have typescript installed globally and run the script by using ‘ts-node’

Npx ts-node emailsUtils.ts