Modules Installation required to run the script :

pip install -r requirements.txt

To Run the Script :

Command : python Test\_Suites/File\_downloader.py profile\_pic.jpg (Python Scriptname Filename)

**Note : This Script can take n number of Arguments like Multiple files can also be downloaded .**

**Eg : python Test\_Suites/File\_downloader.py profile\_pic.jpg abcdef.jgp**

Note : This script has to be run under **‘Gdrive\_Python’** path .

**Eg :**

(venv) blr-mpc9h:Gdrive\_Python rapati$ pwd

/Users/rapati/PycharmProjects/Gdrive\_Python

**Limitation :**

This script cannot be used for Downloading Folders

**Testing Details :**

#####################################################################################

**System Used** : MAC

After Authorizing API and got this refresh token which gives us YOUR\_ACCESS\_TOKEN (access\_token) ,YOUR\_API\_KEY(refresh token)

We have to use : <https://developers.google.com/oauthplayground> link for authorization .

**Request / Response :**

{

"access\_token": "ya29.a0AfH6SMCfpuJ-gY\_9Nw4QuVqG1xBV3LK\_VRuaZv8V33m9ZwkUg3L2\_MpMYAfd6uEYFCDii45VmzXIm6aMy7z3jpf9Eedgcy54UJnhwd6v260j9AY-zRmUU7XJxt1d23ZAhTVEBrVcvsix70VfApW4clGUpTz9",

"scope": "https://www.googleapis.com/auth/drive",

"token\_type": "Bearer",

"expires\_in": 3599,

"refresh\_token": "1//04VZpoOzeKimhCgYIARAAGAQSNwF-L9IrRjh4IA7kA7Al\_SnNdmU2OIKINF-vFEY1yHatKzJODEFbIziE5QvGUJ0YjgOQ6auky9M"

}

Working Curl which gives you list of files :

**Standard curl taken from** (https://developers.google.com/drive/api/v3/reference/files/list?apix=true#try-it)

curl \

'https://www.googleapis.com/drive/v3/files?key=[YOUR\_API\_KEY]' \

--header 'Authorization: Bearer [YOUR\_ACCESS\_TOKEN]' \

--header 'Accept: application/json' \

--compressed

**Modified Curl :**

curl \

'https://www.googleapis.com/drive/v3/files?key="1//04VZpoOzeKimhCgYIARAAGAQSNwF-L9IrRjh4IA7kA7Al\_SnNdmU2OIKINF-vFEY1yHatKzJODEFbIziE5QvGUJ0YjgOQ6auky9M"' \

--header 'Authorization: Bearer ya29.a0AfH6SMCfpuJ-gY\_9Nw4QuVqG1xBV3LK\_VRuaZv8V33m9ZwkUg3L2\_MpMYAfd6uEYFCDii45VmzXIm6aMy7z3jpf9Eedgcy54UJnhwd6v260j9AY-zRmUU7XJxt1d23ZAhTVEBrVcvsix70VfApW4clGUpTz9' \

--header 'Accept: application/json' \

--compressed

**Result :**

{

"kind": "drive#fileList",

"incompleteSearch": false,

"files": [

{

"kind": "drive#file",

"id": "1yARblkVw8JJib1eNn2FjsPBH3YVOnjbiuAujFUQRuhE",

"name": "Interview Preparation doc (Automation) - Upwork",

"mimeType": "application/vnd.google-apps.document"

},

{

"kind": "drive#file",

"id": "1pTgqQ\_P3OTcS\_LFi2NqCAigIrj4AJHQm",

"name": "profile\_pic.jpg",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "1pqzqz1GBtQRQ5jJt4xqYNDFHHSL3cxzN",

"name": "Upwork\_UI\_Automation.zip",

"mimeType": "application/zip"

},

{

"kind": "drive#file",

"id": "1hvdDspdSFUr5yoK7Cb4NpsUNuNak-Wjg",

"name": "Home task - upd.",

"mimeType": "application/vnd.google-apps.folder"

},

{

"kind": "drive#file",

"id": "1is\_oNf1LzxWuYpzUPykeK0UKIVSqTStN",

"name": "Ruby Automation Task with Selenium.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "13QKxce4L4g2kT5OufbfxOS4jevxXmgCA",

"name": "Candidate Information Sheet.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "12imtX44Y5p3mKi4KsCIyJyQa1pm-WW3R",

"name": "CV\_Patil\_Rajeev.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "19JibkbNd7RrwcY\_zSwxi80OrMeklAJWu",

"name": "Rajeev Patil.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "1AIcnEFQiec5CG2eMaz0uNdjWh4adDBPn",

"name": "CV\_Patil\_Rajeev (1).pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "19io4cnFrpjQwRbyC6qQvQB5z9lvPU0hi",

"name": "CV\_Patil\_Rajeev.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "1FJ\_Mi2sAYgwFTGgLknCSsyek3XSzfFds8FUEF7dMYlI",

"name": "Udemy courses on 97% discount",

"mimeType": "application/vnd.google-apps.document"

},

{

"kind": "drive#file",

"id": "1rEhSH56doW\_rC\_ZFWcwC0Ktkg0V-ivTH",

"name": "6.10\_Python\_Automation\_Testing\_ML\_AI\_Aspirant.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "17Wq05sQZnzSh3\_rGlivcRH8b6xvJD2Iq",

"name": "636a4327-8083-4ddd-9b08-1b6263b502e7.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "1dFWF\_EMPVDVZGjTsJ5njVolIZ-E29sfj",

"name": "python.7z",

"mimeType": "application/x-7z-compressed"

},

{

"kind": "drive#file",

"id": "1cAsvwuYCbgPYbCptspO1iTwgrDDy1qeY",

"name": "pondi.7z",

"mimeType": "application/x-7z-compressed"

},

{

"kind": "drive#file",

"id": "1U4Ch20OZ30gIc5FKFeYUcsrGc2ohJZrn",

"name": "team\_pics",

"mimeType": "application/vnd.google-apps.folder"

},

{

"kind": "drive#file",

"id": "1J\_lJuRNXve7802Yxa9fs3WqTYmSAYl8G",

"name": "team\_pics.7z",

"mimeType": "application/x-7z-compressed"

},

{

"kind": "drive#file",

"id": "1mZkpP9Epf7SB5gx8dcubFBMF7BqB8pvY",

"name": "6.10\_Automation\_testing\_ML\_AI\_Aspirant.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1ZlZRTVZTakpxQlFsTkR1a2hwMktvQ3JteE5n",

"name": "6.3Years\_of\_experience\_Automation\_Python\_Testing.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "1CCFP8KgULH70QWvPCcVLLz09IGSfDDHf",

"name": "rajeevpatil.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "1BSfJpYhws--Aey-tK0JwKUFMU3b7RHm8",

"name": "Adobe Campaign JD\_New.pdf",

"mimeType": "application/pdf"

},

{

"kind": "drive#file",

"id": "1SWnADIda31mVFevFcfkGtcgBHTKKI94J",

"name": "telecom\_churn\_data.csv",

"mimeType": "text/csv"

},

{

"kind": "drive#file",

"id": "1VUo49wOfEdoO7TVTOI4Vcb82npoDX1VeI5JNZc69e5A",

"name": "Script for RN3 ",

"mimeType": "application/vnd.google-apps.document"

},

{

"kind": "drive#file",

"id": "12-ABnYR5IR7x\_NvtdpnOWqbdnDBIIvoQ",

"name": "Rajeev Patil.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "1scSwB8P0aJ6y38UA74qmyMyY\_CdFxLda",

"name": "rajeev\_4\_4Years\_resume\_python\_shell\_automation\_testing.docx",

"mimeType": "application/vnd.openxmlformats-officedocument.wordprocessingml.document"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1NnhRQ3o4X3ZwNGc",

"name": "DSC\_8194.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1M2RGUHR1cTRSMWc",

"name": "DSC\_8193.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1a3dZTzh6ZGNfem8",

"name": "DSC\_8191.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1ejg5V0loVXdGVzA",

"name": "DSC\_8190.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1NjMzblpKWGY1a1E",

"name": "DSC\_8189.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1UERNdnVQZmpud0E",

"name": "DSC\_8188.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1R2JUc1Z4X2JPd2s",

"name": "DSC\_8187.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1bER6bmNjN0RaMXM",

"name": "DSC\_8185.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1YkVycmxHNU5LNGc",

"name": "DSC\_8184.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1ejQxbGJkaFpNR0k",

"name": "DSC\_8183.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1dURVNGE1Qmstdk0",

"name": "DSC\_8179.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1bVZZbWZtS2RZRnM",

"name": "DSC\_8177.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1aUtKckFxTzdXdDg",

"name": "DSC\_8175.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1TzBIRkE1Q2RKWkk",

"name": "DSC\_8174.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1dXFwdkhYV3BiczQ",

"name": "DSC\_8173.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1NzRMUklDSFdOUkU",

"name": "DSC\_8172.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1N29wd0pfWHozdTA",

"name": "DSC\_8171.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1NVd5bjRDNE8xcVE",

"name": "DSC\_8170.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1UklfUWlNMFhkUG8",

"name": "DSC\_8169.JPG",

"mimeType": "image/jpeg"

},

{

"kind": "drive#file",

"id": "0B\_DtnL\_Py5n1c3RhcnRlcl9maWxl",

"name": "Getting started",

"mimeType": "application/pdf"

}

]

}

**Download a file :**

https://developers.google.com/drive/api/v3/reference/files/get

**Result :**

**/Users/rapati/PycharmProjects/Gdrive\_Python/Test\_Suites/Download\_file\_from\_gdrive.py**

{u'incompleteSearch': False, u'files': [{u'mimeType': u'application/vnd.google-apps.document', u'kind': u'drive#file', u'id': u'1yARblkVw8JJib1eNn2FjsPBH3YVOnjbiuAujFUQRuhE', u'name': u'Interview Preparation doc (Automation) - Upwork'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'1pTgqQ\_P3OTcS\_LFi2NqCAigIrj4AJHQm', u'name': u'profile\_pic.jpg'}, {u'mimeType': u'application/zip', u'kind': u'drive#file', u'id': u'1pqzqz1GBtQRQ5jJt4xqYNDFHHSL3cxzN', u'name': u'Upwork\_UI\_Automation.zip'}, {u'mimeType': u'application/vnd.google-apps.folder', u'kind': u'drive#file', u'id': u'1hvdDspdSFUr5yoK7Cb4NpsUNuNak-Wjg', u'name': u'Home task - upd.'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'1is\_oNf1LzxWuYpzUPykeK0UKIVSqTStN', u'name': u'Ruby Automation Task with Selenium.pdf'}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'13QKxce4L4g2kT5OufbfxOS4jevxXmgCA', u'name': u'Candidate Information Sheet.docx'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'12imtX44Y5p3mKi4KsCIyJyQa1pm-WW3R', u'name': u'CV\_Patil\_Rajeev.pdf'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'19JibkbNd7RrwcY\_zSwxi80OrMeklAJWu', u'name': u'Rajeev Patil.pdf'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'1AIcnEFQiec5CG2eMaz0uNdjWh4adDBPn', u'name': u'CV\_Patil\_Rajeev (1).pdf'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'19io4cnFrpjQwRbyC6qQvQB5z9lvPU0hi', u'name': u'CV\_Patil\_Rajeev.pdf'}, {u'mimeType': u'application/vnd.google-apps.document', u'kind': u'drive#file', u'id': u'1FJ\_Mi2sAYgwFTGgLknCSsyek3XSzfFds8FUEF7dMYlI', u'name': u'Udemy courses on 97% discount'}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'1rEhSH56doW\_rC\_ZFWcwC0Ktkg0V-ivTH', u'name': u'6.10\_Python\_Automation\_Testing\_ML\_AI\_Aspirant.docx'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'17Wq05sQZnzSh3\_rGlivcRH8b6xvJD2Iq', u'name': u'636a4327-8083-4ddd-9b08-1b6263b502e7.pdf'}, {u'mimeType': u'application/x-7z-compressed', u'kind': u'drive#file', u'id': u'1dFWF\_EMPVDVZGjTsJ5njVolIZ-E29sfj', u'name': u'python.7z'}, {u'mimeType': u'application/x-7z-compressed', u'kind': u'drive#file', u'id': u'1cAsvwuYCbgPYbCptspO1iTwgrDDy1qeY', u'name': u'pondi.7z'}, {u'mimeType': u'application/vnd.google-apps.folder', u'kind': u'drive#file', u'id': u'1U4Ch20OZ30gIc5FKFeYUcsrGc2ohJZrn', u'name': u'team\_pics'}, {u'mimeType': u'application/x-7z-compressed', u'kind': u'drive#file', u'id': u'1J\_lJuRNXve7802Yxa9fs3WqTYmSAYl8G', u'name': u'team\_pics.7z'}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'1mZkpP9Epf7SB5gx8dcubFBMF7BqB8pvY', u'name': u'6.10\_Automation\_testing\_ML\_AI\_Aspirant.docx'}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1ZlZRTVZTakpxQlFsTkR1a2hwMktvQ3JteE5n', u'name': u'6.3Years\_of\_experience\_Automation\_Python\_Testing.docx'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'1CCFP8KgULH70QWvPCcVLLz09IGSfDDHf', u'name': u'rajeevpatil.pdf'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'1BSfJpYhws--Aey-tK0JwKUFMU3b7RHm8', u'name': u'Adobe Campaign JD\_New.pdf'}, {u'mimeType': u'text/csv', u'kind': u'drive#file', u'id': u'1SWnADIda31mVFevFcfkGtcgBHTKKI94J', u'name': u'telecom\_churn\_data.csv'}, {u'mimeType': u'application/vnd.google-apps.document', u'kind': u'drive#file', u'id': u'1VUo49wOfEdoO7TVTOI4Vcb82npoDX1VeI5JNZc69e5A', u'name': u'Script for RN3 '}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'12-ABnYR5IR7x\_NvtdpnOWqbdnDBIIvoQ', u'name': u'Rajeev Patil.docx'}, {u'mimeType': u'application/vnd.openxmlformats-officedocument.wordprocessingml.document', u'kind': u'drive#file', u'id': u'1scSwB8P0aJ6y38UA74qmyMyY\_CdFxLda', u'name': u'rajeev\_4\_4Years\_resume\_python\_shell\_automation\_testing.docx'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1NnhRQ3o4X3ZwNGc', u'name': u'DSC\_8194.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1M2RGUHR1cTRSMWc', u'name': u'DSC\_8193.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1a3dZTzh6ZGNfem8', u'name': u'DSC\_8191.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1ejg5V0loVXdGVzA', u'name': u'DSC\_8190.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1NjMzblpKWGY1a1E', u'name': u'DSC\_8189.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1UERNdnVQZmpud0E', u'name': u'DSC\_8188.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1R2JUc1Z4X2JPd2s', u'name': u'DSC\_8187.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1bER6bmNjN0RaMXM', u'name': u'DSC\_8185.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1YkVycmxHNU5LNGc', u'name': u'DSC\_8184.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1ejQxbGJkaFpNR0k', u'name': u'DSC\_8183.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1dURVNGE1Qmstdk0', u'name': u'DSC\_8179.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1bVZZbWZtS2RZRnM', u'name': u'DSC\_8177.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1aUtKckFxTzdXdDg', u'name': u'DSC\_8175.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1TzBIRkE1Q2RKWkk', u'name': u'DSC\_8174.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1dXFwdkhYV3BiczQ', u'name': u'DSC\_8173.JPG'}, {u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1NzRMUklDSFdOUkU', u'name': u'DSC\_8172.JPG'}, {u'mimeType': u'application/pdf', u'kind': u'drive#file', u'id': u'0B\_DtnL\_Py5n1c3RhcnRlcl9maWxl', u'name': u'Getting started'}], u'kind': u'drive#fileList'}

File is getting downloaded

200

{u'mimeType': u'image/jpeg', u'kind': u'drive#file', u'id': u'1pTgqQ\_P3OTcS\_LFi2NqCAigIrj4AJHQm', u'name': u'profile\_pic.jpg'}

On Framework you can see file gets downloaded , it will be downloaded initially to base path later after comparison updated file will be moved to Updated folder.

Graphical user interface, application, Teams

Description automatically generated

Under Test Suites , we can see the file downloaded , even if we want we can change the path in Open statement (while opening a file and we can make separate directory ).

**Steps which was not able to Automate using API , but can be automated using Selenium Python** :

1. Manual Set up for creating Credentials and Oauth consent screen:

Graphical user interface, text, application, Teams

Description automatically generated

1. Generation of Access Token after expiry. (it’s little tricky to automate even using selenium python since we have to track the time after every 10 seconds and check it’s equal to 0 and then extracting the access token from the box).

Graphical user interface, application

Description automatically generated

1. To Check the file status like whether its updated or is it already existing one .

Since did not found any related methods to get the file size so was not able to find this case :

<https://developers.google.com/drive/api/v2/reference/files/get>

Checked in this link for the same.

Test Cases :

Positive test case : input\_File\_name=**'profile\_pic.jpg'. -> Present in GDrive**

**Graphical user interface, application

Description automatically generated**

Validation of the File Size and if file is updated then it will copy the new file to updated folder.

**Negative test case** :

input\_File\_name=**'1112profile\_pic.jpg' -> Not Present in GDrive.**

**Negative Test case Output :**

**One can run the script with combination of File Present on Google Drive along with file which is not present on File.**

Graphical user interface, application

Description automatically generated

Whenever your Token Expires :

Graphical user interface, application

Description automatically generated

After File Comparison , file will be copied if file is downloaded for the first time else it will be compared to the already downloaded file to check for the changes / updation happened.

Graphical user interface, application

Description automatically generated

For Generating Access Token :

<https://developers.google.com/>oauthplayground

Graphical user interface, application

Description automatically generated