INITIAL STEPS

**Open Terminal**

**type $python -m SimpleHTTPServer 8000**

log in to google using account

Go to <https://console.developers.google.com/flows/enableapi?apiid=drive>

and enable the API. Click the **Go to credentials** button to continue.

select the **OAuth consent screen** tab. Select an **Email address**, enter a **Product name** if not already set, and click the **Save** button.

On the **Credentials** tab, click the **Add credentials** button and select **OAuth 2.0 client ID**

**application type:Web application.**

**In the Authorized JavaScript origins field, enter the URL http://localhost:8000. Leave the Authorized redirect URIs field blank.**

**Click Create Button**

**Copy Client ID and store it somewhere**

**General Code : (to be added in every file)**

**<html>**

**<head>**

**<script src="//code.jquery.com/jquery-1.11.3.min.js"></script>**

**<script src="//code.jquery.com/jquery-migrate-1.2.1.min.js"></script>**

**<script type="text/javascript">**

**var CLIENT\_ID = '<YOUR CLIENT ID>';**

**var SCOPES = ['**[**https://www.googleapis.com/auth/drive.metadata.readonly','https://www.googleapis.com/auth/drive','https://www.googleapis.com/auth/drive.file','https://www.googleapis.com/auth/drive.metadata**](https://www.googleapis.com/auth/drive.metadata.readonly%27,%27https://www.googleapis.com/auth/drive%27,%27https://www.googleapis.com/auth/drive.file%27,%27https://www.googleapis.com/auth/drive.metadata)**'];**

**/\*\***

**\* Check if current user has authorized this application.**

**\*/**

**function checkAuth() {**

**gapi.auth.authorize(**

**{**

**'client\_id': CLIENT\_ID,**

**'scope': SCOPES.join(' '),**

**'immediate': true**

**}, handleAuthResult);**

**}**

**/\*\***

**\* Handle response from authorization server.**

**\***

**\* @param {Object} authResult Authorization result.**

**\*/**

**function handleAuthResult(authResult) {**

**var authorizeDiv = document.getElementById('authorize-div');**

**if (authResult && !authResult.error) {**

**// Hide auth UI, then load client library.**

**authorizeDiv.style.display = 'none';**

**loadDriveApi();**

**} else {**

**// Show auth UI, allowing the user to initiate authorization by**

**// clicking authorize button.**

**authorizeDiv.style.display = 'inline';**

**}**

**}**

**/\*\***

**\* Initiate auth flow in response to user clicking authorize button.**

**\***

**\* @param {Event} event Button click event.**

**\*/**

**function handleAuthClick(event) {**

**gapi.auth.authorize(**

**{client\_id: CLIENT\_ID, scope: SCOPES, immediate: false},**

**handleAuthResult);**

**return false;**

**}**

**/\*\***

**\* Load Drive API client library.**

**\*/**

**function loadDriveApi() {**

**gapi.client.load('drive', 'v2', listFiles);**

**}**

**function listFiles() {**

**var request = gapi.client.drive.files.list({**

**'maxResults': 500**

**});**

**request.execute(function(resp) {**

**appendPre('Files:');**

**var files = resp.items;**

**if (files && files.length > 0) {**

**for (var i = 0; i < files.length; i++) {**

**var file = files[i];**

**appendPre(file.title + ' (' + file.id + ')');**

**}**

**} else {**

**appendPre('No files found.');**

**}**

**});**

**}**

**/\*\***

**\* Append a pre element to the body containing the given message**

**\* as its text node.**

**\***

**\* @param {string} message Text to be placed in pre element.**

**\*/**

**function appendPre(message) {**

**var pre = document.getElementById('output');**

**var textContent = document.createTextNode(message + '\n');**

**pre.appendChild(textContent);**

**}**

**//Add the various module codes here**

**</script>**

**<script src="https://apis.google.com/js/client.js?onload=checkAuth"> </script>**

**</head>**

**<body>**

**<div id="authorize-div" style="display: none">**

**<span>Authorize access to Drive API</span>**

**<!--Button for the user to click to initiate auth sequence -->**

**<button id="authorize-button" onclick="handleAuthClick(event)">**

**Authorize**

**</button>**

**</div>**

**<pre id="output"></pre>**

**</body>**

**</html>**

**MODULE 1: CREATE FOLDER:**

**function createFolder(folderName) {**

**var body = {**

**'title': folderName,**

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

**};**

**var request = gapi.client.drive.files.insert({**

**'resource': body**

**});**

**request.execute(function(resp) {**

**console.log('Folder ID: ' + resp.id);**

**});**

**}**

**// ADD in <BODY>**

**<input id="clickme" type="button" value="create folder" onclick="createFolder();" />**

**verify in Drive a new folder is created**

**Module 2: INSERT FILE IN FOLDER:**

**function insertFile() {**

**gapi.client.load('drive', 'v2', function() {**

**var request = gapi.client.request({**

**'path': '/drive/v2/files',**

**'method': 'POST',**

**'body':{**

**"title" : "filename.jpg",**

**"mimeType" : "image/jpeg",**

**"description" : "Some"**

**}**

**});**

**request.execute(function(resp) { console.log(resp); });**

**});**

**}**

**//BODY**

**<input id="clickme" type="button" value="Insert File" onclick="insertFile();" />**

**Module 3: Print Metadata (Download Link):**

**function printFile(fileId) {**

**var theID = fileId;**

**var request = gapi.client.request({**

**'path': '**[**https://www.googleapis.com/drive/v2/files/FileID',**](https://www.googleapis.com/drive/v2/files/FileID%27,//)  **//In file ID replace with one of the ID’s Generated by list file**

**'method': 'GET',**

**});**

**request.execute(function(resp) {**

**console.log('Title: ' + resp.title);**

**console.log('Description: ' + resp.description);**

**console.log('MIME type: ' + resp.mimeType);**

**console.log('WebContent: ' + resp.webContentLink);**

**});**

**}**

**Module 4 : Download File :**

**function downloadFile(file, callback) {**

**if (file.downloadUrl) {**

**var accessToken = gapi.auth.getToken().access\_token;**

**var xhr = new XMLHttpRequest();**

**xhr.open('GET', file.downloadUrl);**

**xhr.setRequestHeader('Authorization', 'Bearer ' + accessToken);**

**xhr.onload = function() {**

**callback(xhr.responseText);**

**};**

**xhr.onerror = function() {**

**callback(null);**

**};**

**xhr.send();**

**} else {**

**callback(null);**

**}**

**} //only api that returns an error :(**

**Module 5: Listing File details**

**function listFiles() {**

**var request = gapi.client.drive.files.list({**

**'maxResults': 500**

**});**

**request.execute(function(resp) {**

**appendPre('Files:');**

**var files = resp.items;**

**if (files && files.length > 0) {**

**for (var i = 0; i < files.length; i++) {**

**var file = files[i];**

**appendPre(file.title + ' (' + file.id + ')');**

**}**

**} else {**

**appendPre('No files found.');**

**}**

**});**

**}**