

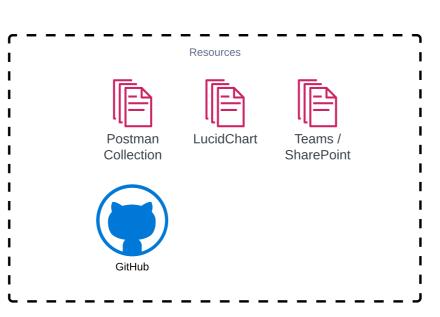
Submid data

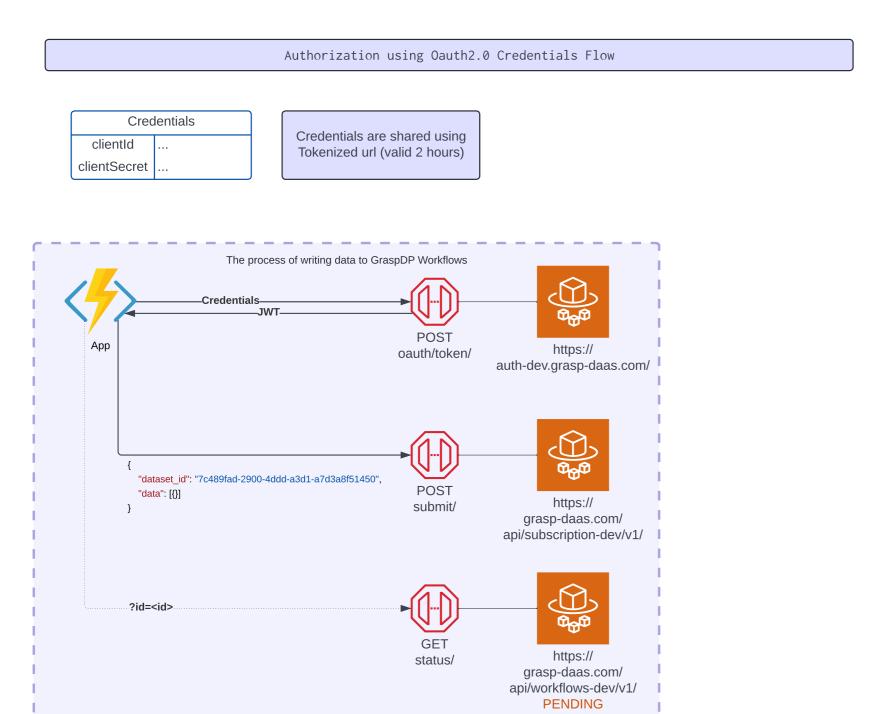
Data models

Code

samples

Flow





## Customer Dataset Schemas

addCustomers (Company, Xledger)					
Requirement	Name	Туре	Description		
Mandatory	code	string			
Mandatory	companyNumber	string			
Optional	companyName	string			
Optional	description	string			
Optional	name	string			
Mandatory	address_streetAddress	string			
Mandatory	address_zipCode	string			
Mandatory	address_place	string			

addCustomers (Person, Xledger)					
Requirement	Name	Туре	Description		
Mandatory	code	string			
Mandatory	socialSec	string			
Optional	companyName	string			
Optional	description	string			
Optional	name	string			
Mandatory	address_streetAddress	string			
Mandatory	address_zipCode	string			
Mandatory	address_place	string			

## InvoiceBaseItems Dataset Schemas

Name ledger_code duct_code	Type string string MoneyString	Description
ledger_code duct_code	string string	Description
duct_code	string	
	,	
ount	MoneyString	
bject1_code	string	
bject2_code	string	
bject3_code	string	
	bject2_code bject3_code	, _

```
Code example
                                                                                                                                          Python
 C# dotNet
                                                                                                                                        Requests
                                                                                                                                       mport base64
                                                                                                                                       mport json
using System.Net.Http;
                                                                                                                                       mport os
using System.Text;
                                                                                                                                      import typing
ısing System.Threading.Tasks;
ısing Newtonsoft.Json;
                                                                                                                                      import requests
 oublic class Program
                                                                                                                                     def get_basic_auth_header(client_id, client_secret) -> dict:
 public static async Task<Dictionary<string, string>> GetBasicAuthHeaderAsync(string clientId, string clientSecret)
                                                                                                                                       Return a dict containing the correct headers to set to make HTTP Basic
  var userPass = $"{clientId}:{clientSecret}";
var authString = Convert.ToBase64String(Encoding.UTF8.GetBytes(userPass));
                                                                                                                                       Auth request
                                                                                                                                       @param client_id: client_id
                                                                                                                                       @param client_secret: client_secret
   var authHeaders = new Dictionary<string, string>
                                                                                                                                       @return: dict
     { "Authorization", "Basic " + authString }
                                                                                                                                        user_pass = "{0}:{1}".format(client_id, client_secret)
   return authHeaders;
                                                                                                                                       auth_string = base64.b64encode(user_pass.encode("utf-8"))
                                                                                                                                         "AUTHORIZATION": "Basic " + auth_string.decode("utf-8"),
 public static async Task<Dictionary<string, string>> GetAuthHeaderAsync(string url, string clientId, string clientSecret)
                                                                                                                                       return auth_headers
   var authHeaders = await GetBasicAuthHeaderAsync(clientId, clientSecret);
   var tokenRequestData = new Dictionary<string, string>
                                                                                                                                      def get_auth_header(url: str, client_id: str, client_secret: str) -> typing.Dict:
     { "grant_type", "client_credentials" },
                                                                                                                                       Function returning JWT token Auth Header OAuth2 client credentials flow.
                                                                                                                                       @param url: url
                                                                                                                                        @param client_id: client_id
                                                                                                                                       @param client_secret: client_secret
   using var client = new HttpClient();
                                                                                                                                       @return: str
   var request = new HttpRequestMessage(HttpMethod.Post, url)
                                                                                                                                        token_request_data = {
      Content = new FormUrlEncodedContent(tokenRequestData),
                                                                                                                                         "grant_type": "client_credentials",
                                                                                                                                        auth_headers = get_basic_auth_header(
   foreach (var header in authHeaders)
                                                                                                                                         client_id, client_secret
      request.Headers.Add(header.Key, header.Value);
                                                                                                                                        response = requests.post(
                                                                                                                                         url, data=token_request_data, headers=auth_headers
   var response = await client.SendAsync(request);
                                                                                                                                       if response.status_code != 200:
                                                                                                                                         raise PermissionError(f"Failed to get JWT token: {response.content}")
     throw new Exception($"Failed to get JWT token: {await response.Content.ReadAsStringAsync()}");
                                                                                                                                       print("Authentication successful")
   Console.WriteLine("Authentication successful");
                                                                                                                                        identity_payload = json.loads(response.content.decode("utf-8"))
                                                                                                                                        return {"Authorization": f"Bearer {identity_payload['access_token']}"}
   var responseContent = await response.Content.ReadAsStringAsync();
   var identityPayload = JsonConvert.DeserializeObject<Dictionary<string, string>>(responseContent);
                                                                                                                                     def submit data(
   return new Dictionary<string, string> { { "Authorization", $"Bearer {identityPayload["access_token"]}" } };
                                                                                                                                       url: str,
                                                                                                                                       headers: typing.Dict,
 public static async Task<HttpResponseMessage> SubmitDataAsync(
                                                                                                                                        > requests.Response:
   Dictionary<string, string> headers,
                                                                                                                                       Function to submit data to API.
   Dictionary<string, string> data)
                                                                                                                                       return requests.post(url, data=json.dumps(data), headers=headers)
   using var client = new HttpClient();
   var jsonData = JsonConvert.SerializeObject(data);
                                                                                                                                       f __name__ == "__main__":
   var content = new StringContent(jsonData, Encoding.UTF8, "application/json"); // Correct placement of 'Content-Type'
                                                                                                                                       # When data is invalid, 422 response is returned with instruction on how
   foreach (var header in headers)
     client.DefaultRequestHeaders.Add(header.Key, header.Value); // Only request headers here
                                                                                                                                        <Response [422]> {
                                                                                                                                        'detail': [
                                                                                                                                          'loc': ['body', 0],
   var response = await client.PostAsync(url, content); // Content with correct 'Content-Type'
                                                                                                                                          'msg': 'Expecting value: line 1 column 1 (char 0)', 'type': 'value_error.jsondecode',
   return response;
                                                                                                                                          'ctx': {
                                                                                                                                           'msg': 'Expecting value',
                                                                                                                                           'doc': 'dataset_id=',
 public static async Task Main(string[] args)
                                                                                                                                           'pos': 0,
   string clientId = Environment.GetEnvironmentVariable("CLIENT_ID");
string clientSecret = Environment.GetEnvironmentVariable("CLIENT_SECRET");
                                                                                                                                            'lineno': 1,
                                                                                                                                           'colno': 1
   string loginUrl = "https://auth-dev.grasp-daas.com/oauth/token/"; string submitUrl = "https://grasp-daas.com/api/subscription-dev/v1/submit/";
   var authHeaders = await GetAuthHeaderAsync(loginUrl, clientId, clientSecret);
   var data = new Dictionary<string, string>
                                                                                                                                        # 404 response is returned when dataset_id is invalid (cannot be found)
                                                                                                                                         <Response [404]> {
      { "dataset_id", "12345" },
                                                                                                                                         'detail': 'No dataset definition found: workflows/eae3b2be-f377-445e-86b0-ead33827daae/datasets/.json'
      { "data", ""}
                                                                                                                                       # 200 response is returned when data is successfully submitted
   var headers = new Dictionary<string, string>(authHeaders);
                                                                                                                                        <Response [200]> {
                                                                                                                                        "status": "pending",
   var response = await SubmitDataAsync(submitUrl, headers, data);
                                                                                                                                         "dataset_id": "<uuid>",
                                                                                                                                         "session_id": "<uuid>"
   Console.WriteLine(response.StatusCode);
   Console.WriteLine(await response.Content.ReadAsStringAsync());
                                                                                                                                       CLIENT_ID = os.environ.get("CLIENT_ID")
CLIENT_SECRET = os.environ.get("CLIENT_SECRET")
                                                                                                                                        LOGIN_URL = "https://auth-dev.grasp-daas.com/oauth/token/"
                                                                                                                                        SUBMIT_URL = "https://grasp-daas.com/api/subscription-dev/v1/submit/"
                                                                                                                                        DATASET_ID = ""
                                                                                                                                        data = [{}]
                                                                                                                                       auth_headers = get_auth_header(
   url=LOGIN_URL,
                                                                                                                                         client_id=CLIENT_ID,
                                                                                                                                         client_secret=CLIENT_SECRET,
                                                                                                                                       extra_headers = {"Content-Type": "application/json"}
                                                                                                                                       headers = {**auth_headers, **extra_headers}
                                                                                                                                       payload = {"dataset_id": DATASET_ID, "data": data}
                                                                                                                                        response = submit_data(
                                                                                                                                         url=SUBMIT_URL,
                                                                                                                                         headers=headers,
                                                                                                                                         data=payload,
                                                                                                                                       print(response, response.json())
```