Link to article: https://discover.claromentis.com/knowledgebase/articles/385/setting-up-google-api-integration-for-map-drive-picker

Setting up Google API Integration for Map, Drive, Picker

Overview

This guide shows you step by step guide to set up a new Integration project with Google APIs available from Claromentis 8.3+

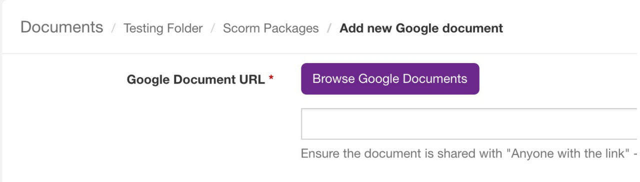
IMPORTANT!: Follow this guide if you are an on-prem customer with a custom domain (not *.myintranet.com). Your system must have a valid SSL certificate (https://) and web address (URL) which is accessible from outside your network/firewall.
Please contact our support team if you are a SaaS customer and has ***.myintranet.com** domain for us to help you configuring Google Integration.

Please note: Google will only allow the use of API with billing enabled. This requires an associated method of payment to be set up in the Project you create in the Developer console using the steps outlined below. There is a level of free usage (amount of queries per day) that functions in the Intranet are unlikely to reach (e.g. Google Maps API for Events and Weather) and you will not be charged for this usage.

Purpose:

1. Document Application

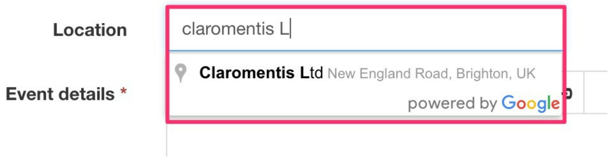
Browsing content of Google Drive within Documents application and gathering necessary information such as document title and content searching.



Documents / Testing Folder / Scorm Packages / Add new Google document
Google Document URL *
Browse Google Documents
Ensure the document is shared with "Anyone with the link" -

2. Event Application

Allowing predictive input when adding a location for an event



3. Weather Component

Our Weather Component (from Claromentis 8.6+) requires Dark Sky API and Google Map API to be configured.

How to

Step 1: Create an account and log in to the Google Developer Console

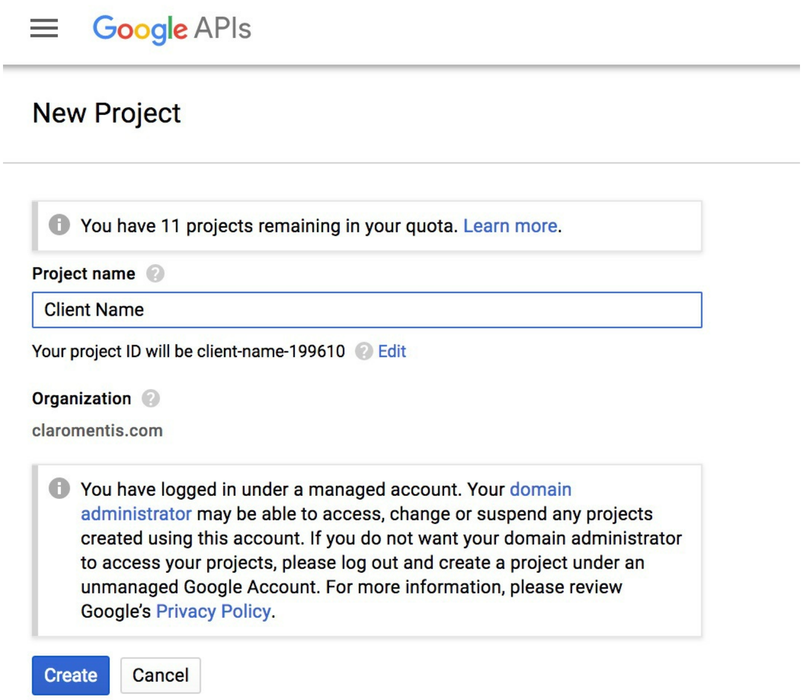
https://console.developers.google.com/

It is advisable for on-premise clients to register API key using their own Google credentials.

If you are a SaaS client, Claromentis can configure API keys on your behalf if you are unable to do so, please contact thesupport team by submitting a ticket.

Step 2: Create a Project

If you have not yet created a project for your system, you can create a new project



New Project

You have 11 projects remaining in your quota. Learn more.

Project name: Client Name

Your project ID will be client-name-199610 Edit

Organization: claromentis.com

You have logged in under a managed account. Your domain administrator may be able to access, change or suspend any projects created using this account. If you do not want your domain administrator to access your projects, please log out and create a project under an unmanaged Google Account. For more information, please review Google's Privacy Policy.

Step 3: Enable APIs and Services

From Dashboard click on Enable APIs and Services here are the list of APIs that required to be enabled:

1. Google Drive API - for accessing and getting file information such as title from Google Drive

2. Google Picker API - for enabling Browse Google Drive document picker to add files easily from Google Drive

3. Maps Embed API - for having google embedded in Event application and CK Editor

4. Maps Static API - required API to have map integration on Event and CK Editor

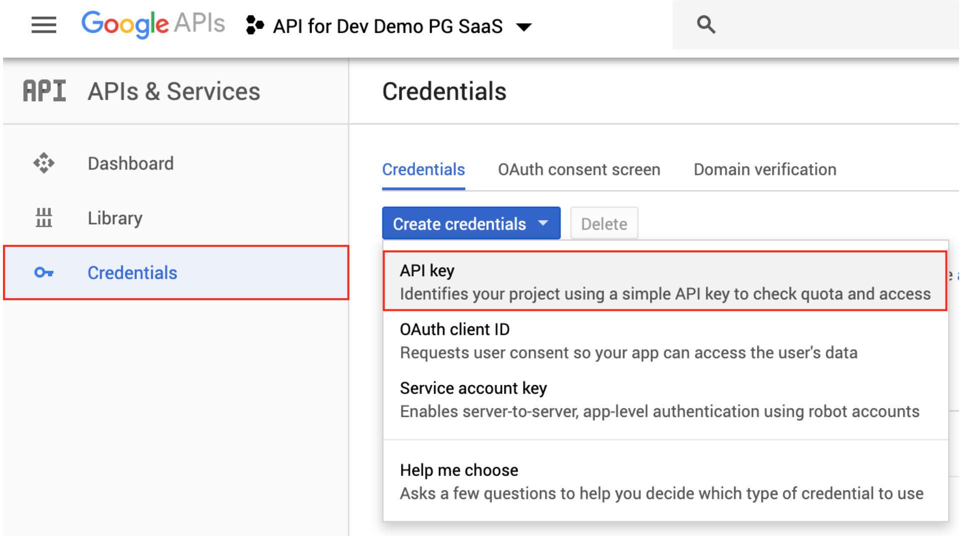
5. Geocoding API - required to read location in Event App and Weather.

6. Maps Javascript API - required to have predictive location search in the Events app

7. Places API - required to read Google Places data in the Events app

Step 4: Set-up Google Map API

4.1 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select **API key**



Google APIs API for Dev Demo PG SaaS

APIs & Services

Credentials

Dashboard

Library

Credentials

Credentials OAuth consent screen Domain verification

Create credentials Delete

API key
Identifies your project using a simple API key to check quota and access

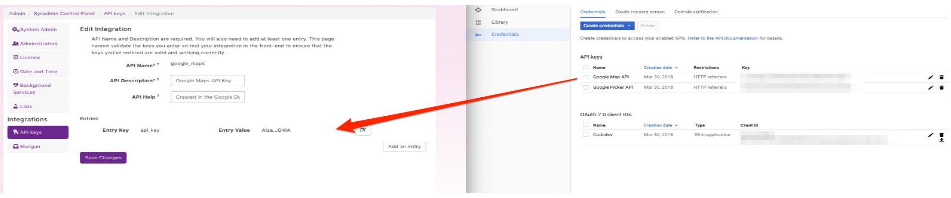
OAuth client ID
Requests user consent so your app can access the user's data

Service account key
Enables server-to-server, app-level authentication using robot accounts

Help me choose
Asks a few questions to help you decide which type of credential to use

API key will be generated, rename it to `[System Name]Google Map API` for example **MyWorkplace Google Map API** for ease of identification later.

4.2 At Claromentis navigate to `Admin > System Panel > API keys`



Admin / Sysadmin Control Panel / API keys / Edit Integration

System Admin
Administrators
License
Date and Time
Background Services
Labs
Integrations
API keys
Mailgun

Edit Integration

API Name and Description are required. You will also need to add at least one entry. This page cannot validate the keys you enter so test your integration in the front-end to ensure that the keys you've entered are valid and working correctly.

API Name* ? google_maps

API Description* ? Google Maps API Key

API Help ? Created in the Google D

Entries

Entry Key api_key Entry Value AIza...Q4IA

Add an entry

Save Changes

Dashboard
Library
Credentials

Credentials OAuth consent screen Domain verification

Create credentials Delete

Create credentials to access your enabled APIs. Refer to the API documentation for details.

API keys

Name	Creation date	Restrictions	Key
Google Map API	Mar 30, 2018	HTTP referrers	[redacted]
Google Picker API	Mar 30, 2018	HTTP referrers	[redacted]

OAuth 2.0 client IDs

Name	Creation date	Type	Client ID
Codedev	Mar 30, 2018	Web application	[redacted]

Click on **Add new integration**

API name: **google_maps**

API description: **Google Maps API key**

API help: **Displaying Google Maps and Google Places predictive input for weather component and event app.**

Entry Key: **`api_key`**

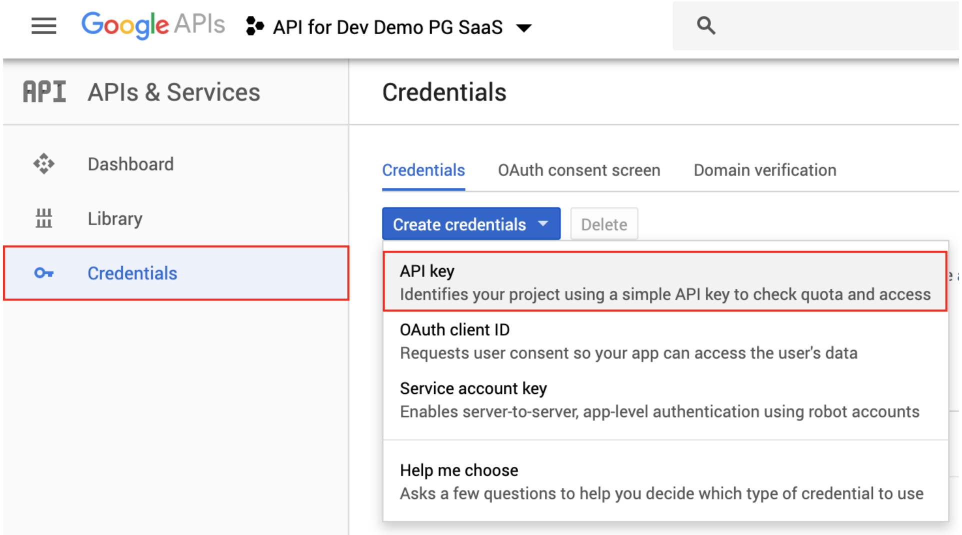
Entry Value: `xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx`

Copy value from Google Map API as shown above

Step 5: Set-up Google Document Picker

For Google Document picker you are going to need both**API key** and **OAuth Client ID**

5.1 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select **API key**



Google APIs API for Dev Demo PG SaaS

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Library

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Credentials OAuth consent screen Domain verification

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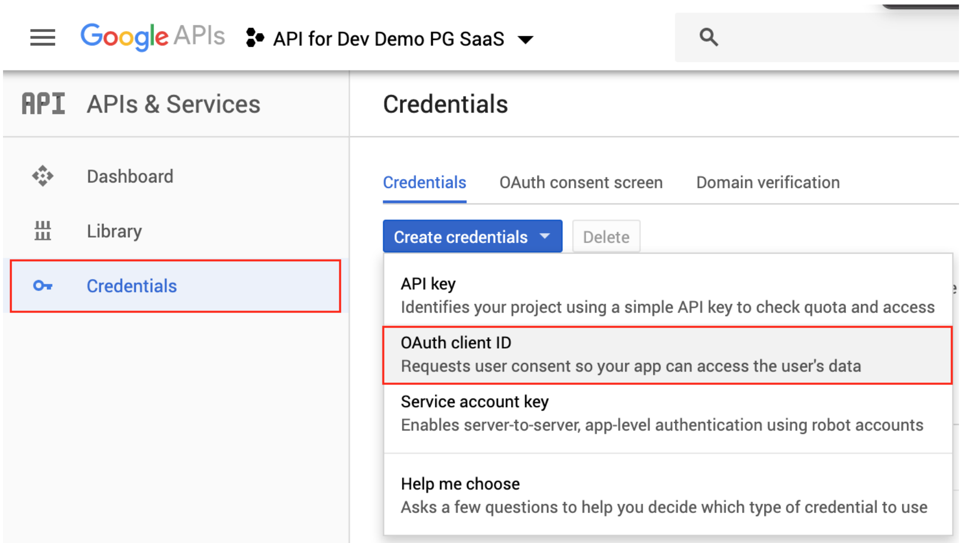
Help me choose
Asks a few questions to help you decide which type of credential to use

API key will be generated, rename it to `[System Name]Google Picker API` for example **MyWorkplace Google Picker API** for ease of identification later.

5.2 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select**OAuth Client ID**



Google APIs API for Dev Demo PG SaaS

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Help me choose
Asks a few questions to help you decide which type of credential to use

Application type: **Web application**

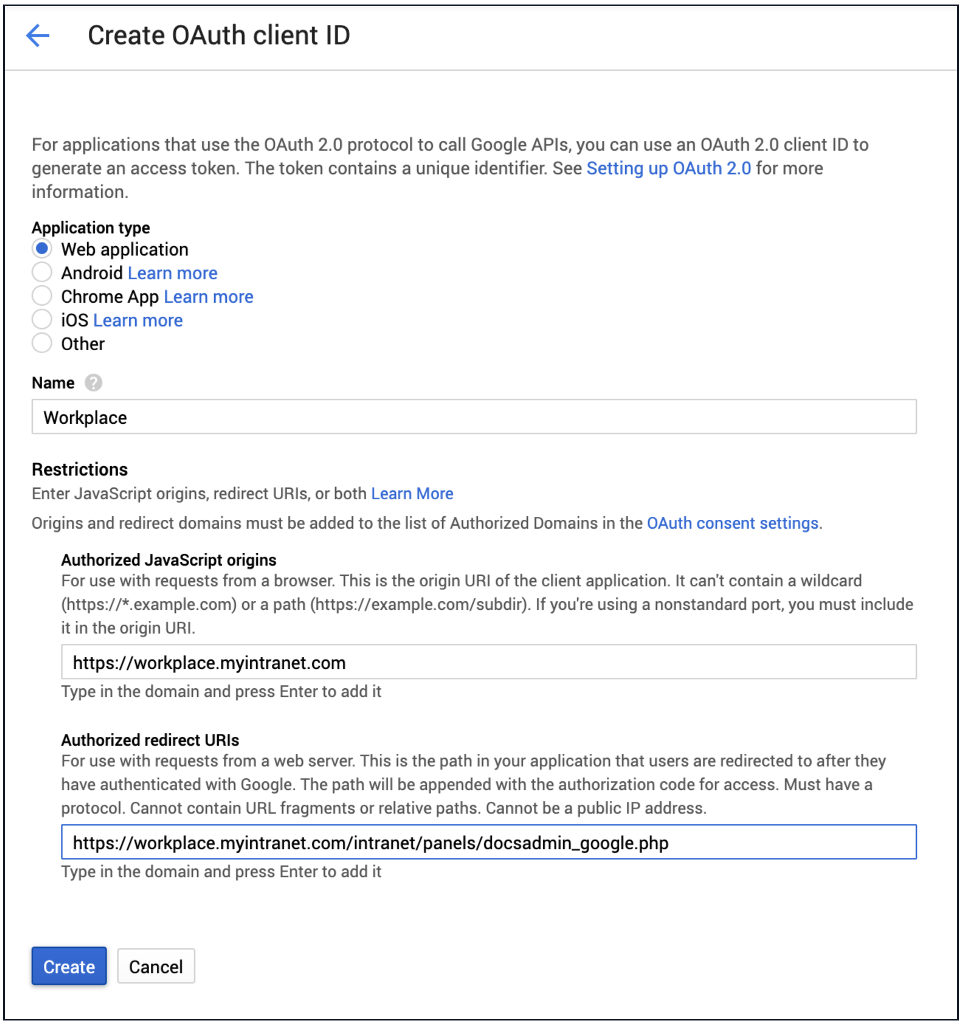
Authorised Javascript Origins: URL of the system

```
Your intranet URL (eg. https://workplace.myintranet.com)
```

Authorised redirect URIs

Your intranet URL followed by `/intranet/panels/docsadmin_google.php`

(eg. https://workplace.myintranet.com/intranet/panels/docsadmin_google.php)



Create OAuth client ID

For applications that use the OAuth 2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to generate an access token. The token contains a unique identifier. See Setting up OAuth 2.0 for more information.

Application type

● Web application
○ Android Learn more
○ Chrome App Learn more
○ iOS Learn more
○ Other

Name

Workplace

Restrictions

Enter JavaScript origins, redirect URIs, or both Learn More

Origins and redirect domains must be added to the list of Authorized Domains in the OAuth consent settings.

Authorized JavaScript origins

For use with requests from a browser. This is the origin URI of the client application. It can't contain a wildcard (https://*.example.com) or a path (https://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URI.

https://workplace.myintranet.com

Type in the domain and press Enter to add it

Authorized redirect URIs

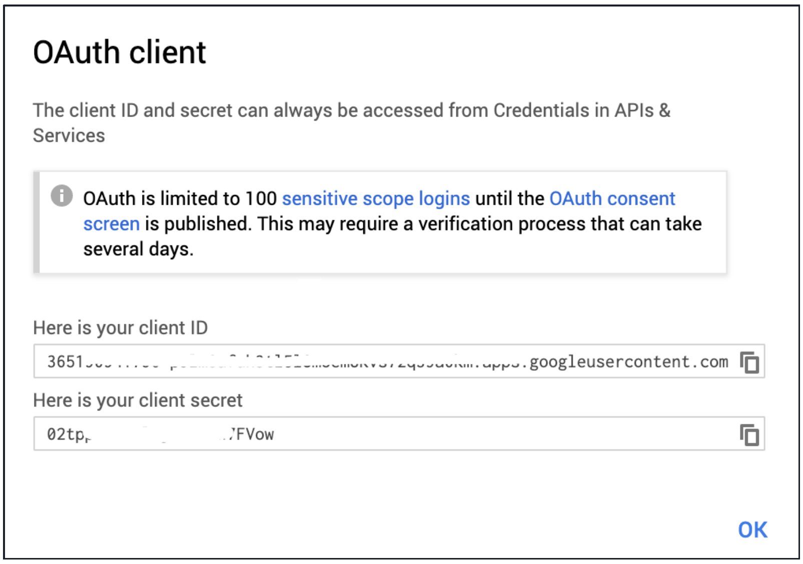
For use with requests from a web server. This is the path in your application that users are redirected to after they have authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.

https://workplace.myintranet.com/intranet/panels/docsadmin_google.php

Type in the domain and press Enter to add it

5.3 Upon submission, you may get a warning about limited scope login, Please remember to set-up Google Domain Verification after this stage, guide can be found below.

Google Domain Verification



OAuth client

The client ID and secret can always be accessed from Credentials in APIs & Services

OAuth is limited to 100 sensitive scope logins until the OAuth consent screen is published. This may require a verification process that can take several days.

Here is your client ID

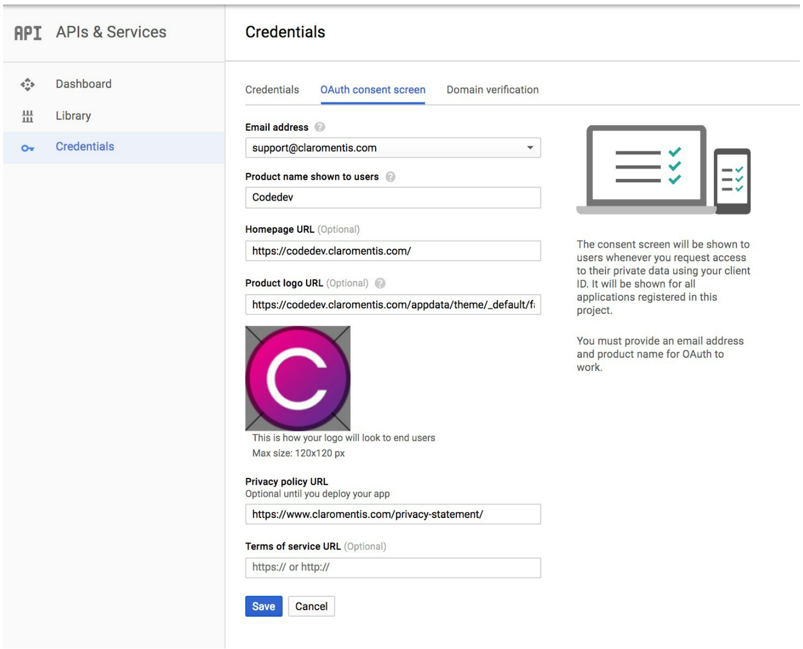
3651[illegible].googleusercontent.com

Here is your client secret

02tp[illegible]FVow

Take a note of client ID

5.4. Creating OAuth client ID require you to configure **Consent Screen**



Credentials

Credentials | OAuth consent screen | Domain verification

Email address
support@claromentis.com

Product name shown to users
Codedev

Homepage URL (Optional)
https://codedev.claromentis.com/

Product logo URL (Optional)
https://codedev.claromentis.com/appdata/theme/_default/f

This is how your logo will look to end users
Max size: 120x120 px

Privacy policy URL
Optional until you deploy your app
https://www.claromentis.com/privacy-statement/

Terms of service URL (Optional)
https:// or http://

The consent screen will be shown to users whenever you request access to their private data using your client ID. It will be shown for all applications registered in this project.

You must provide an email address and product name for OAuth to work.

Email address: the same email to access the developer console

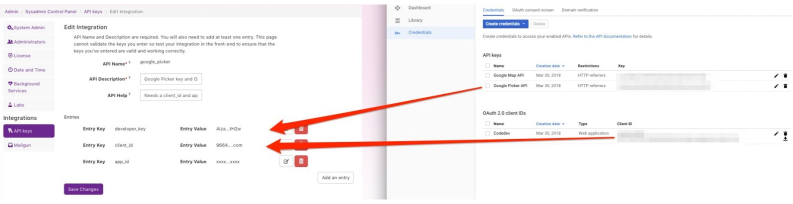
Product Logo URL:

`https://[yourintranetaddress]/images/favicons/icon-150.png`

replace `[yourintranetaddress]` with your actual URL of claromentis for example `http://workplace.claromentis.com`

Privacy policy URL: link to client's privacy policy

5.5 At Claromentis navigate to `Admin > System > API keys`



Edit Integration

API Name and Description are required. You will also need to add at least one entry. This page cannot validate the keys you enter so test your integration in the front-end to ensure that the keys you've entered are valid and working correctly.

API Name* ? google_picker
API Description* ? Google Picker key and O.
API Help ? Needs a client_id and ap

Entries

Entry Key	developer_key	Entry Value	Alza...tH2w
Entry Key	client_id	Entry Value	9664....com
Entry Key	app_id	Entry Value	xxxx...xxxx

Create credentials to access your enabled APIs. Refer to the API documentation for details.

API keys

Name	Creation date	Restrictions	Key
Google Map API	Mar 30, 2018	HTTP referrers	[redacted]
Google Picker API	Mar 30, 2018	HTTP referrers	[redacted]

OAuth 2.0 client IDs

Name	Creation date	Type	Client ID
Codedev	Mar 30, 2018	Web application	[redacted]

API Name: **google_picker**

API Description: **Google Picker key and OAuth details**

API help: Allowing user to pick a document from Google Docs

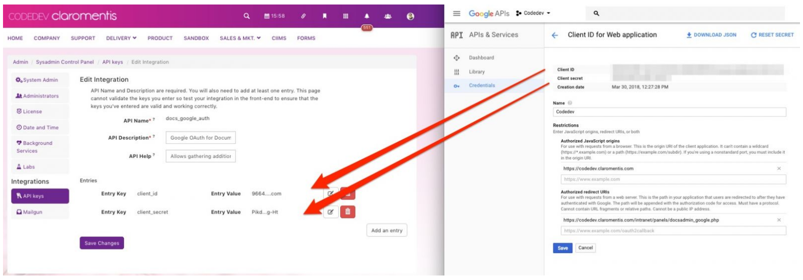
developer_key: copy value from **Google Picker API**

client_id: is the client id from **OAuth Client IDs**

app_id this can be ignored

Step 6: Set-up Google OAuth for Document

This Integration allows gathering additional information about a document when adding from Google Docs



Edit Integration

API Name and Description are required. You will also need to add at least one entry. This page cannot validate the keys you enter so test your integration in the front-end to ensure that the keys you've entered are valid and working correctly.

API Name* ? docs_google_auth

API Description* ? Google OAuth for Docum

API Help ? Allows gathering additior

Entries

Entry Key client_id Entry Value 9664....com

Entry Key client_secret Entry Value Pikd...g-Ht

Client ID for Web application

Client ID [redacted]

Client secret [redacted]

Creation date Mar 30, 2018, 12:27:28 PM

Name

Codedev

Restrictions

Enter JavaScript origins, redirect URIs, or both

Authorized JavaScript origins

For use with requests from a browser. This is the origin URI of the client application. It can't contain a wildcard (https://*.example.com) or a path (https://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URI.

https://codedev.claromentis.com

https://www.example.com

Authorized redirect URIs

For use with requests from a web server. This is the path in your application that users are redirected to after they have authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.

https://codedev.claromentis.com/intranet/panels/docsadmin_google.php

https://www.example.com/oauth2callback

Copy & Paste Client ID and Client secret from Google Console into Google OAuth for Document

API Name: **docs_google_auth**

API Description: **Google OAuth for Documents**

API help: Allows gathering additional information about a document when adding from Google Docs

client_id: is the client id from **OAuth Client IDs**

client_secret: enter **client secret from OAuth Client ID**

Step 7: Testing & Verification.

7.1. Document Admin

Testing Google Document Indexing

Navigate to Admin > Documents > Google Authentication

Check API status

7.2. Adding Google Documents

Add a document from Google by Browse Google Document, you will be prompted to authorize access to your Google Drive

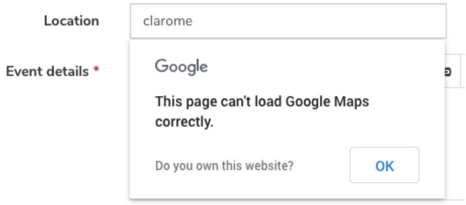
7.3. In Events app - create an event and check event location predictive input

Create an event and check predictive input when typing location.

TROUBLESHOOTING

Event App - Location

This page can't load Google Maps Correctly



Location clarome

Event details *

This page can't load Google Maps correctly.

Do you own this website?

Cause:

This error is caused by misconfiguration in Google Maps API

Solution:

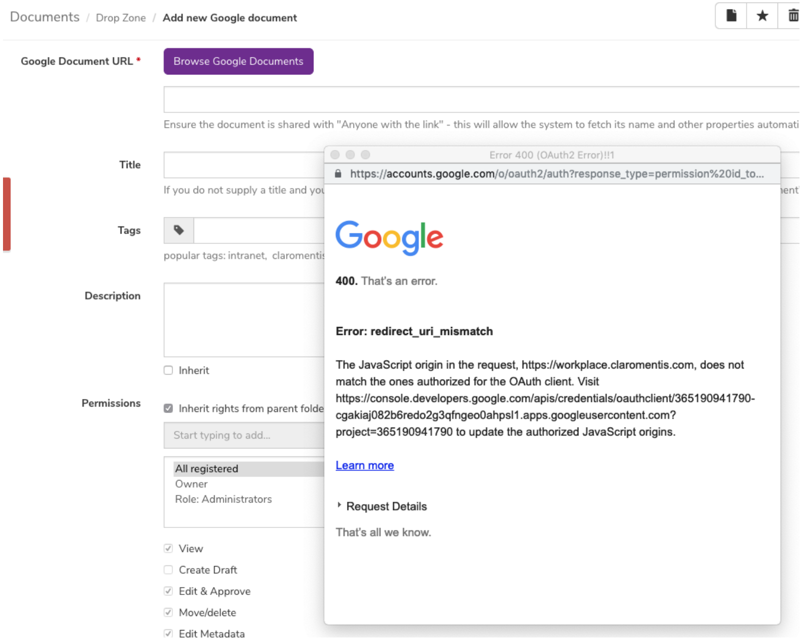
Check Google Maps API Key in `Admin / System / API keys / google_maps`

Documents

Error: redirect_uri_mismatch

Error 400

Browse google document and getting



Ensure the document is shared with "Anyone with the link" - this will allow the system to fetch its name and other properties automati

If you do not supply a title and you

400. That's an error.

Error: redirect_uri_mismatch

The JavaScript origin in the request, https://workplace.claromentis.com, does not match the ones authorized for the OAuth client. Visit https://console.developers.google.com/apis/credentials/oauthclient/365190941790-cgakiaj082b6redo2g3qfngeo0ahpsl1.apps.googleusercontent.com?project=365190941790 to update the authorized JavaScript origins.

That's all we know.

This error is caused by incorrect **Authorised Javascript Origins** and **Authorised redirect URIs** origin specified in **Step 5.2**

Navigate to the Google API Console and make the amendments.

Troubleshooting & Tips

You can use the URL below to make a direct API call to check if Google Map API required for weather and Event places is configured correctly.

```
https://maps.googleapis.com/maps/api/geocode/json?address=brighton,uk&key=<your_unique_api_key_here>
```

Last modified on 30 November 2023 by Hannah Door

Created on 28 March 2018 by Michael Christian