# Google Maps API - Setup Instructions

Step 1 - Navigating to the Google Maps Platform

We need to create an account on this platform using your existing Google account. To do this, go to https://developers.google.com/maps/gmp-get-started.

Ensure that you are logged in to the google account that you want to associate the billing account and project with. You can check this by clicking on the icon on the top right-hand side of the screen.
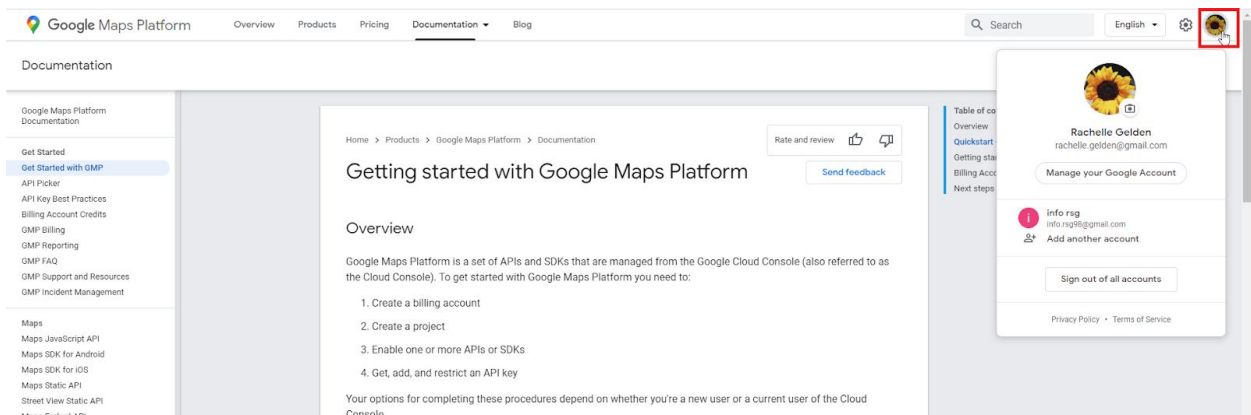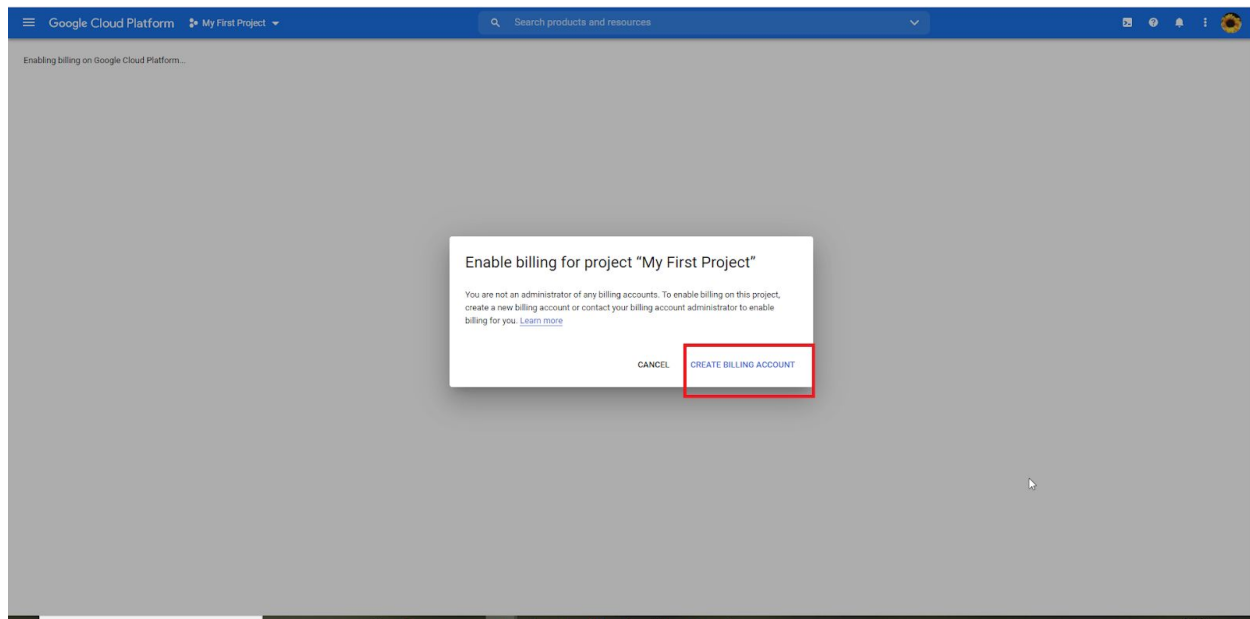

After that, click on the "Get Started" button to create a billing account.
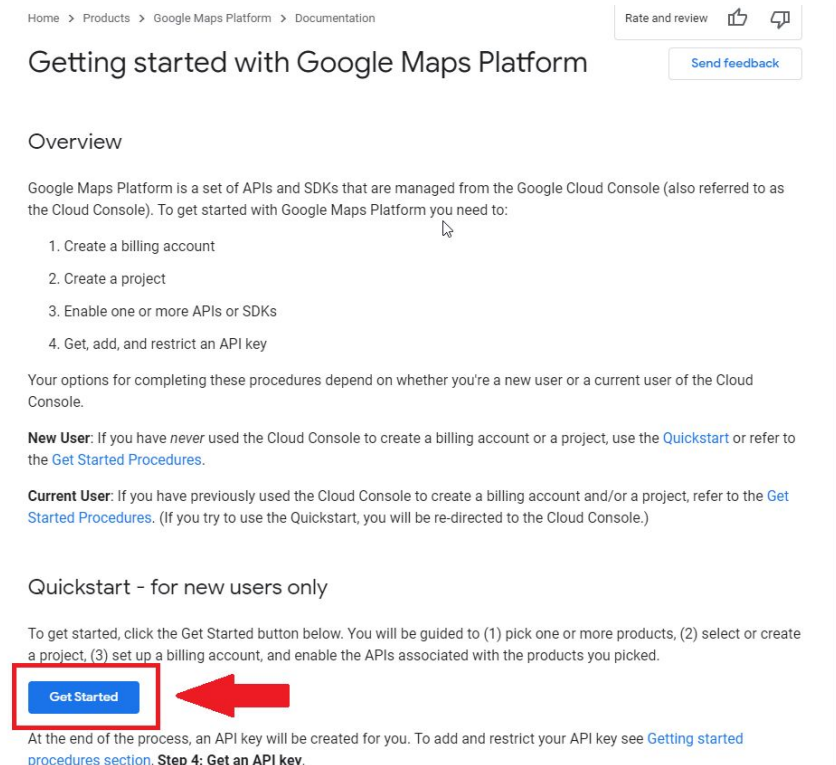
Step 2 - Create a Billing Account

After clicking on "Get Started" you will be brought to the following screen, click on "Create Billing Account"

You will then be brought to the following screen, ensure that the correct account and country are selected, then agree to the terms and conditions.

Next, you will need to either select or create a payment profile and review your information.

Step 2 of 2

Your payment information helps us reduce fraud and abuse. **You won't be charged unless you turn on automatic billing.**

Payments profile ⓘ

Choose the payments profile that will be associated with this account or transaction. A payments profile is shared and used across all Google products.

👤   Rachelle Gelden
       Individual profile for Play, Books, and YouTube   ⌄
       Payments profile ID: 1179-0165-4158

Customer info

👤   Account type ⓘ
       Individual

🏢   Name and address ⓘ ✏️
       Rachelle Gelden
       714 17A Street Southeast
       High River, AB T1V 1S4
       Canada

How you pay

📅   Monthly automatic payments

       You pay for this service on a regular monthly basis, via an automatic charge when your payment is due.

Payment method ⓘ

VISA   Visa •••• 4641   ⌄

### Access to all Cloud Platform Products

Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

$300 credit for free

Put Google Cloud to work with $300 in credit to spend over the next 90 days.

No autocharge after free trial ends

We ask you for your credit card to make sure you are not a robot. You won't be charged unless you manually upgrade to a paid account.
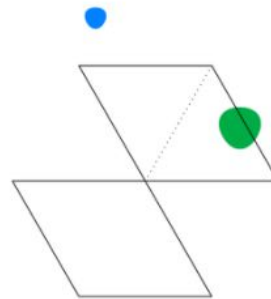
START MY FREE TRIAL

Once you are satisfied that all the information is correct, click "Start My Free Trial".

After clicking on "Start My Free Trial" you will be brought to the following page - your billing account is now created.
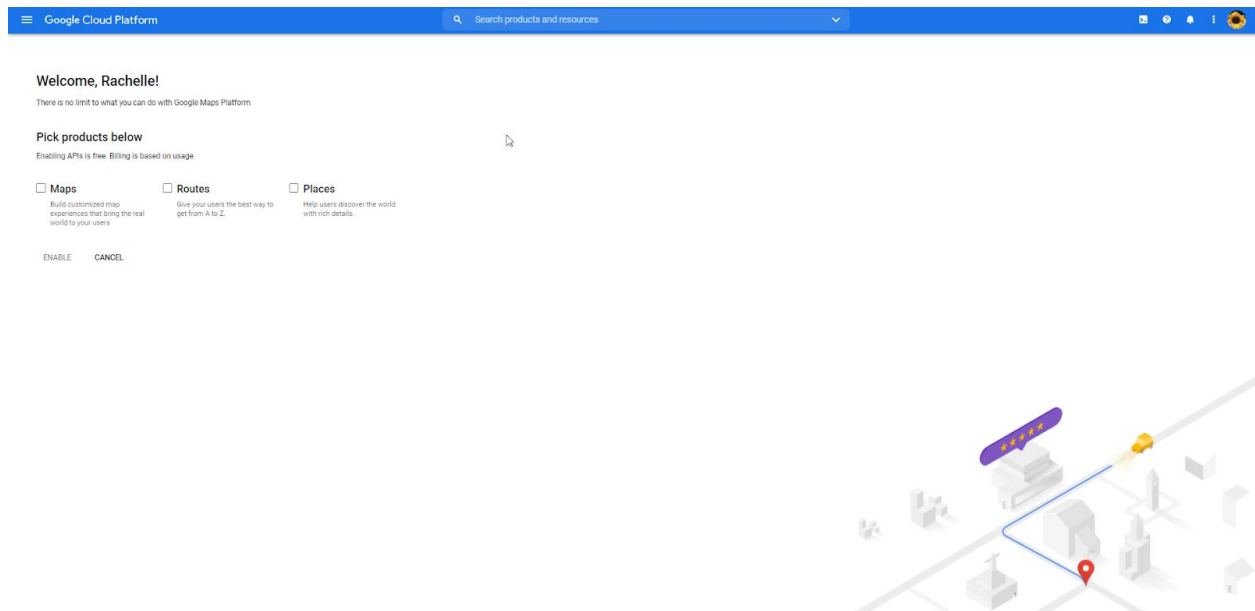
Step 3 - Create a new project

From the screen above, click on the dropdown to the right of "Google Cloud Platform"

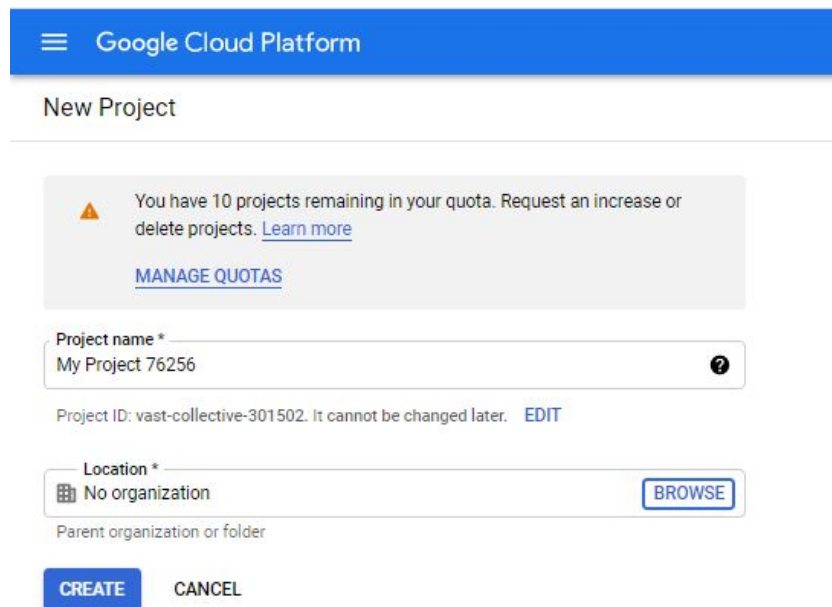Clicking on the dropdown will open the following window, from here, click on "New Project".
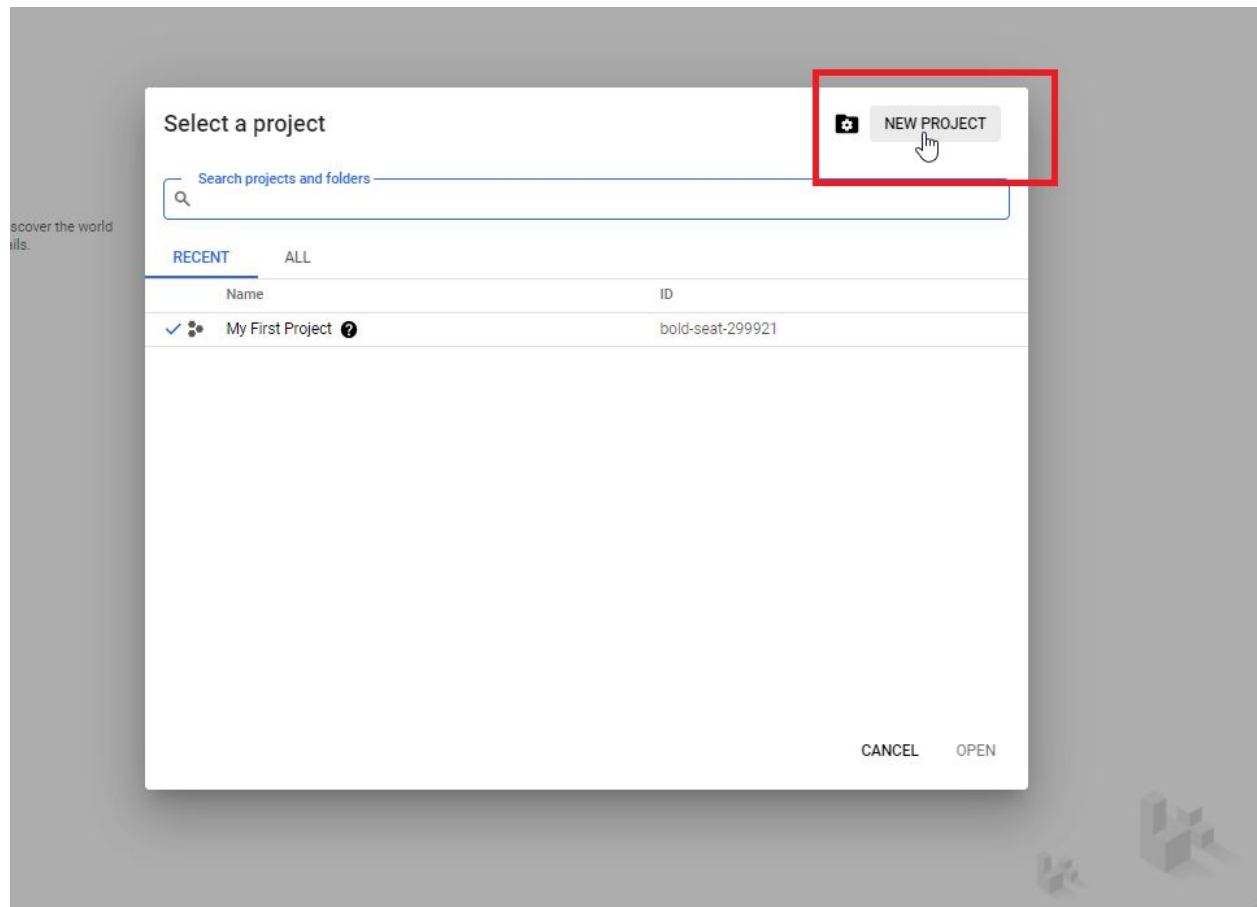
This will open a new page where you can fill out details for the project.

Each team is going to have their own project, so it would make sense to name the project something along the lines of "Home-Together-Canada-C" where the letter is used to distinguish which team it belongs to.
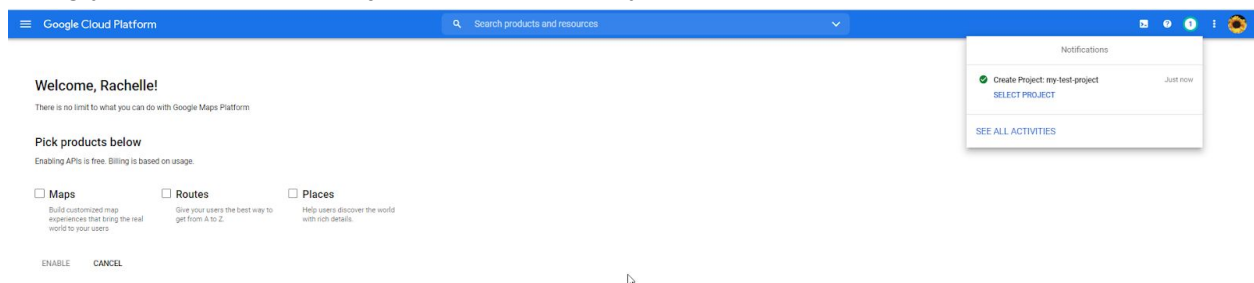
If you have an organization setup, then you can use that for location, but it is okay to proceed with no organization.

Click "Create" when all fields have been filled out.

After clicking create, you should be returned to the previous page and receive a notification letting you know that the project was successfully created.

Step 4 - Enable Required APIs

Open a new tab in your web browser and go to
https://developers.google.com/maps/gmp-get-started#enable-api-sdk and click on "Maps API
Library Page"

After clicking on "Maps API Library Page" you will be brought to the following page.

From here, you can enable APIs by clicking on the boxes. For example, to enable the
"Geocoding API" click on the box titled "Geocoding API" and you will be brought to the following
page.

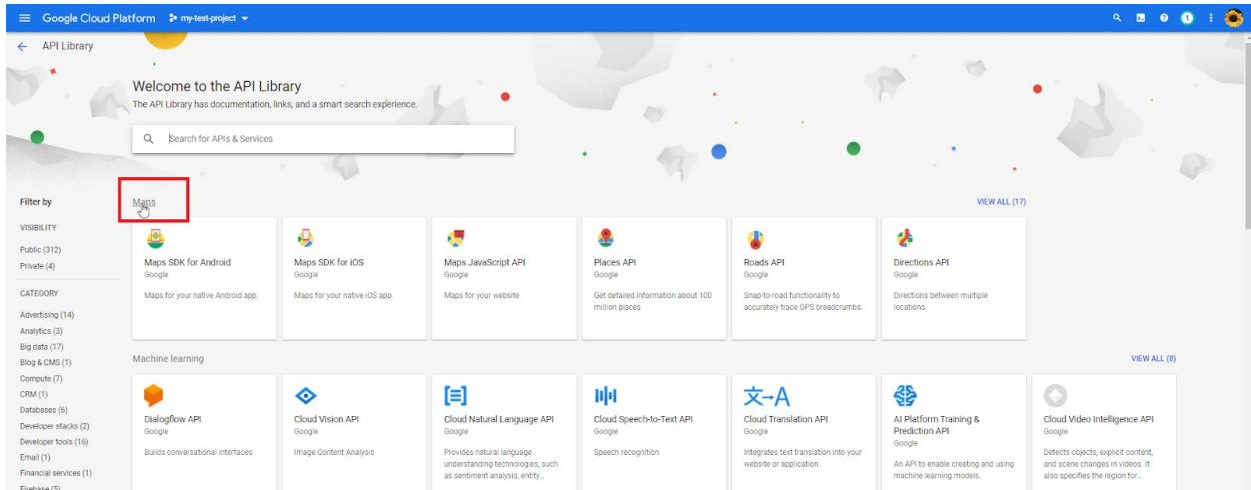After enabling an API, you will be brought to the following page.

To get back to the page with all of the APIs, click on "Overview".
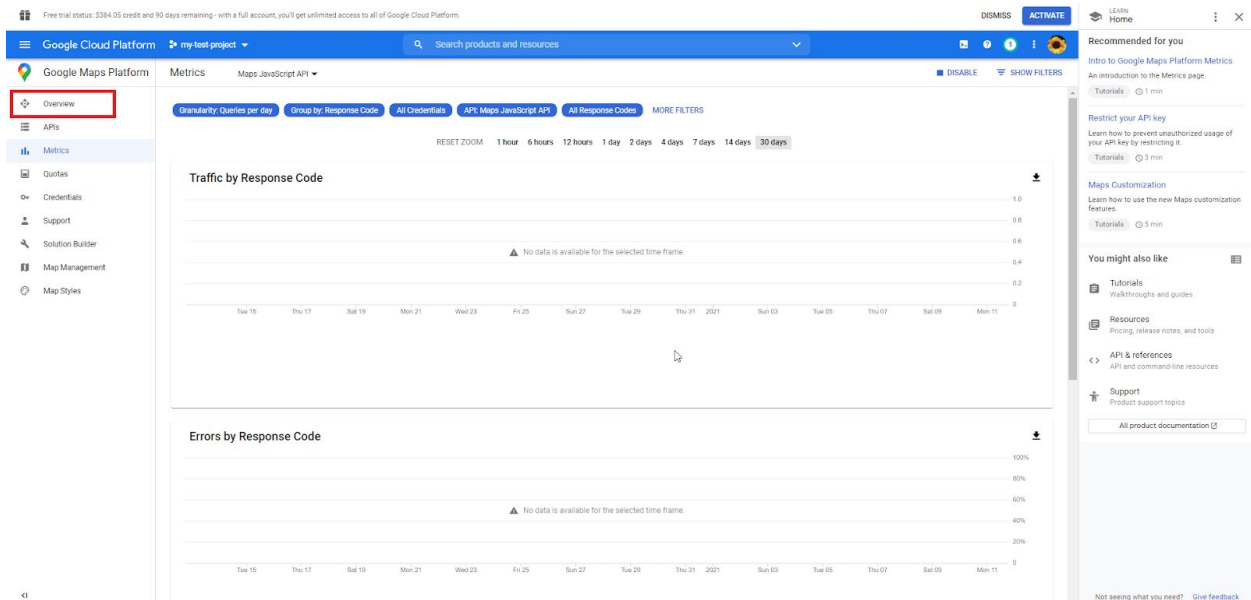
Then from there, click on "Pick APIs"
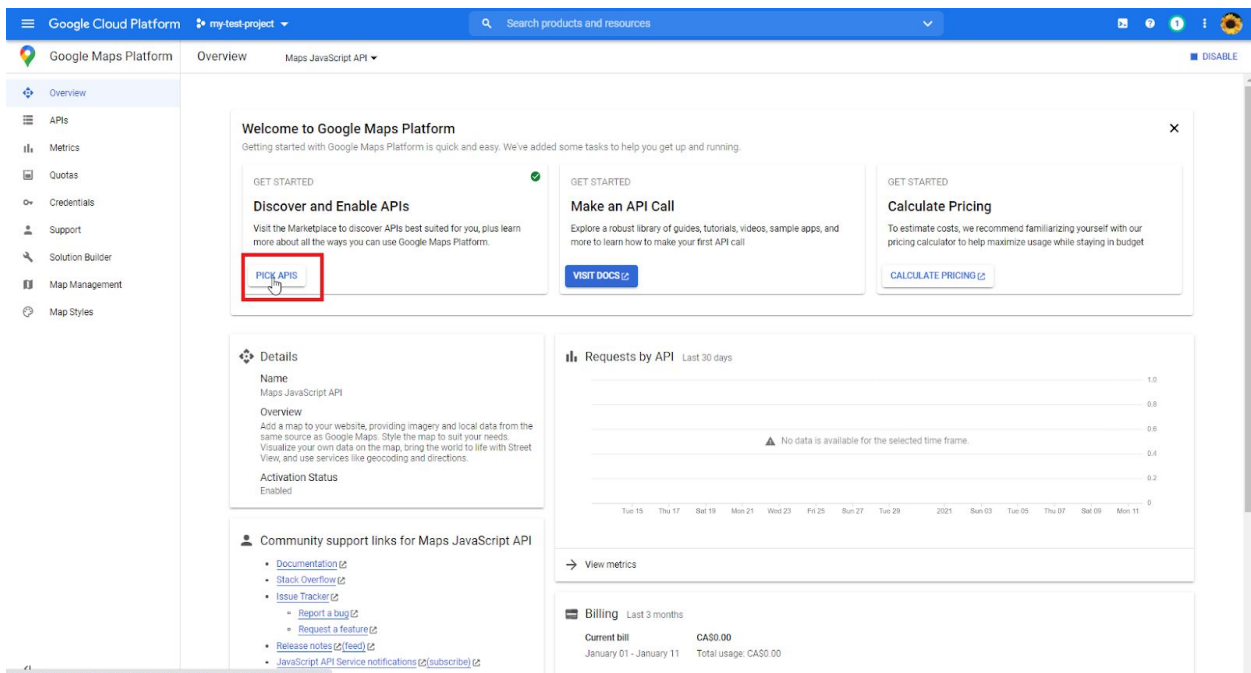
And then from there, click on "Maps" and you will be brought back to the original page with all the APIs.

Please enable the following APIs:
- Geocoding API
- Maps JavaScript API
- Distance Matrix API
- Geolocation API
- Maps Embedded API
- Places API

While we will probably only end up using 2-3 of these APIs, figuring out what Maps features work for this project will take a little bit of trial and error.

All of these APIs can be disabled at any point and there is no charge in enabling the API. Only once we make requests with these APIs will we be charged.

Step 5 - Get an API Key

In this step, we are going to make two API keys. API keys are used to link our website to the project that we made in step 2 that has all the APIs we enabled (step 4) to help us with all map related functionality.

The first API key is going to be what we use for our local development (only on our computers). This key won't have any restrictions because it will never be publicly visible.

The second API key is going to be what we use for the live version of the site that we have hosted on a server in order to make remote testing easier. We will add restrictions to this key so that no one can use the key other than through our website.
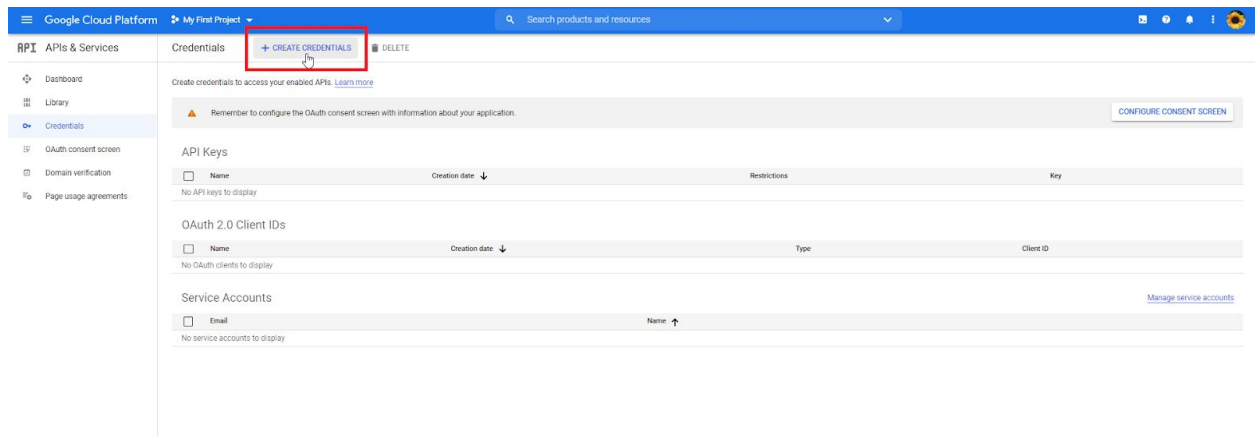
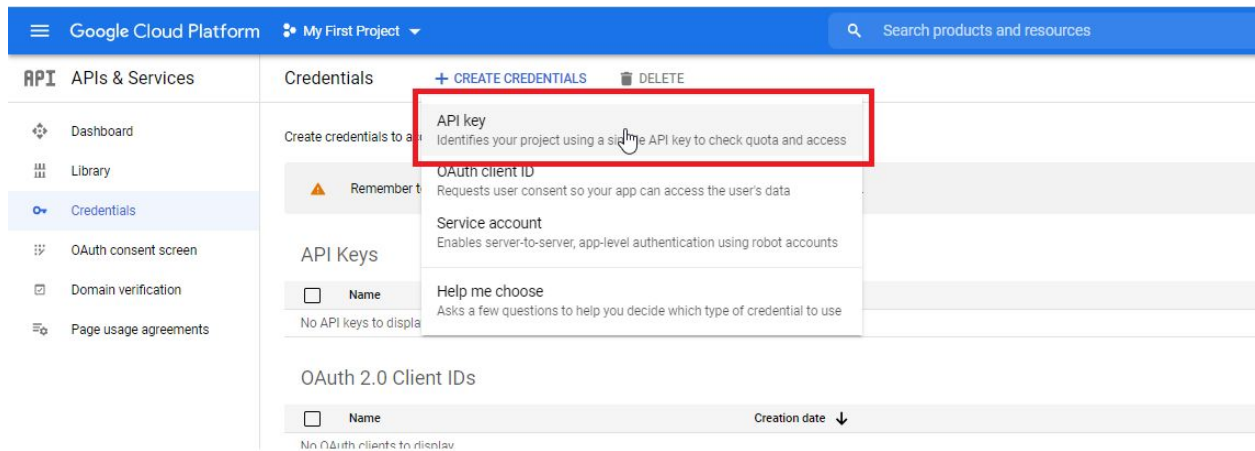Firstly, go back to the tab with the following page.
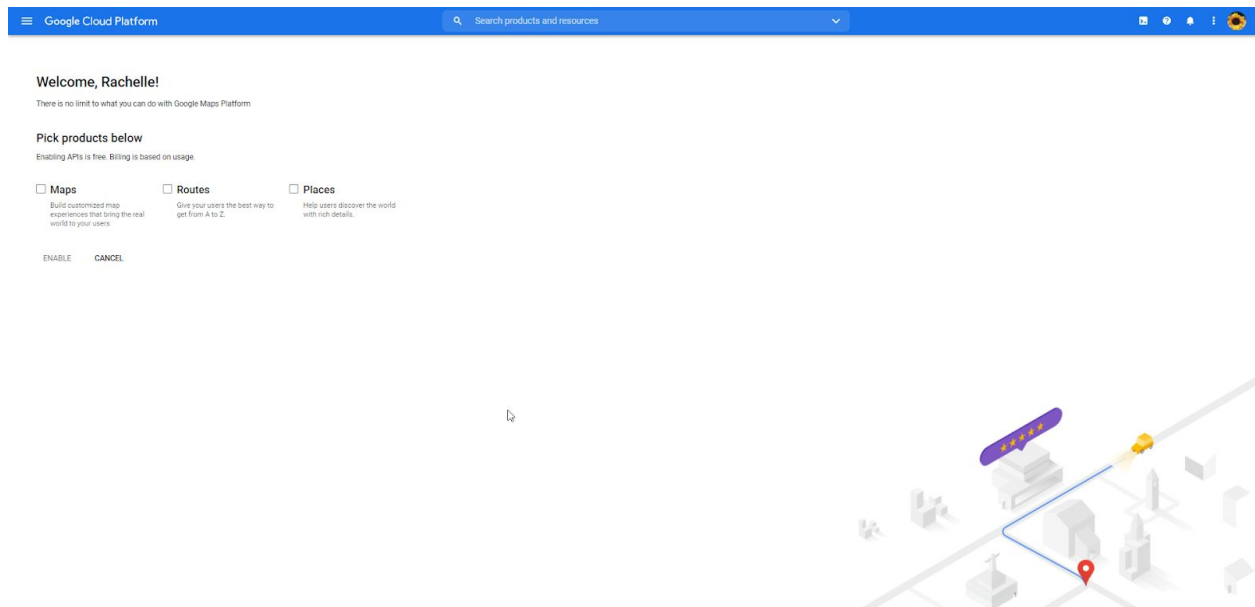
From here, click on the icon to the right of "Google Cloud Platform" to open the menu. From here click on "APIs & Services" then "Credentials".
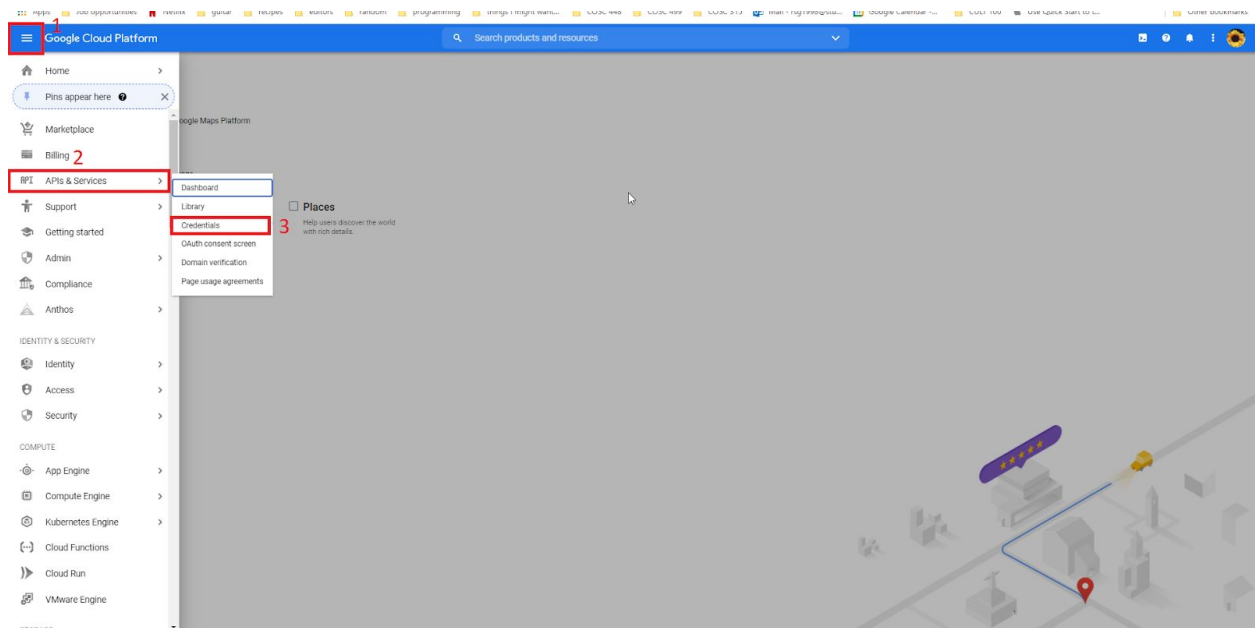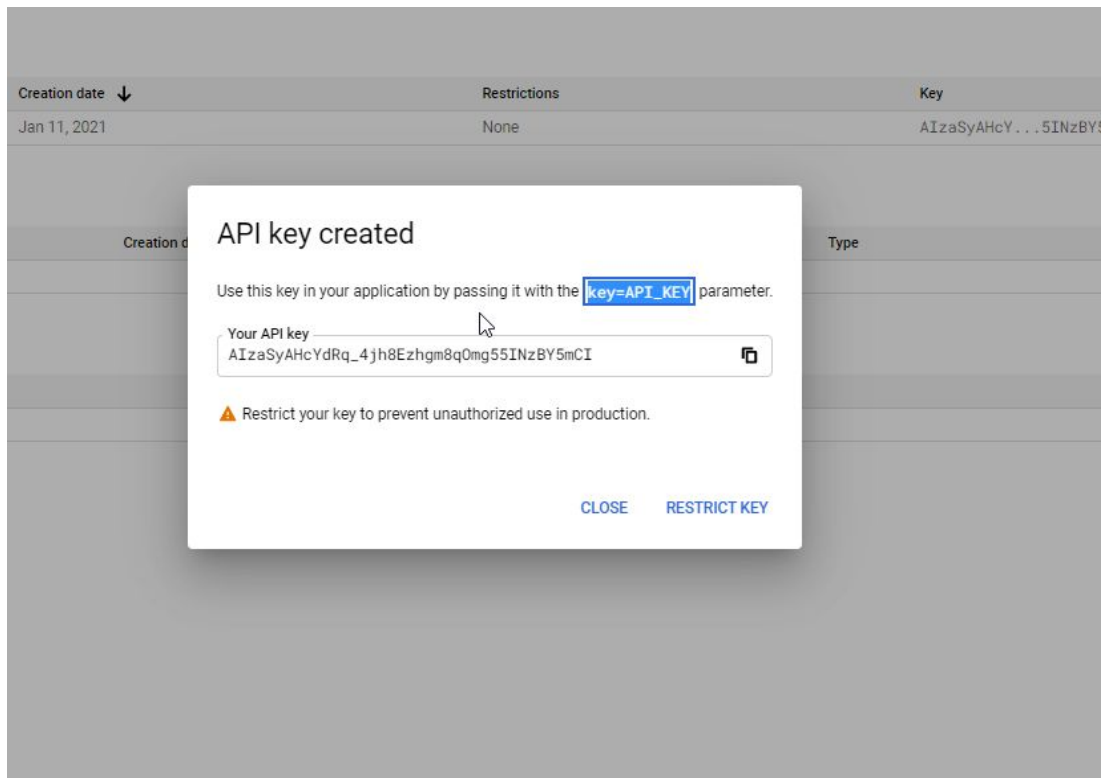
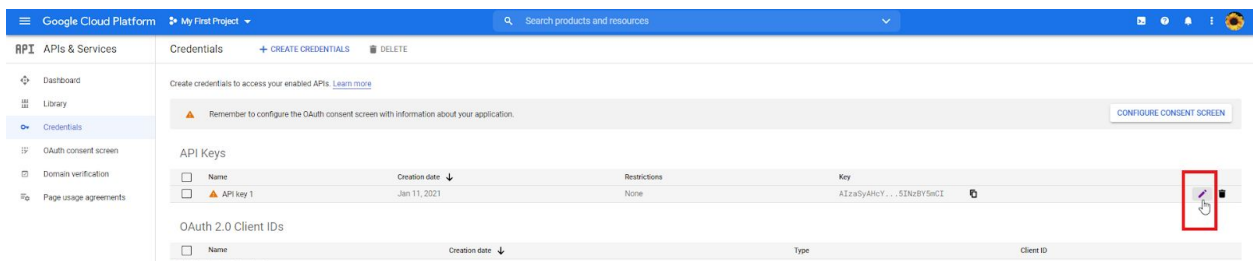You will be brought to the following page. To make the first API key, click on "Create Credentials"

After clicking on "Create Credentials" select the "API key" option.

The following screen will popup, click "Close".

Now that the key is created, we are going to rename it so we can keep track of which key is used for development and which one is for the live website. You can do this by clicking on the pencil icon on the key you just created.

You can name this key "Development" then click "Save".

Now, create another API key by repeating the steps above, but this time, click on "Restrict Key"

You will be brought to the following screen. Name the key "Production" and under Application restrictions select "HTTP referrers (web sites)".

Next, in the textbox under "New Item" add the following URL - home-together-canada.herokuapp.com/* then click "Done"

○ None
● HTTP referrers (web sites)
○ IP addresses (web servers, cron jobs, etc.)
○ Android apps
○ iOS apps

Website restrictions

Restrict key usage requests to the specified websites.

⚠ If left blank, your API key will accept requests from any website.

New item 🗑 ∧

Referrer *
home-together-canada.herokuapp.com/*   **1**

CANCEL   **DONE**   **2**

ADD AN ITEM

API restrictions

API restrictions specify the enabled APIs that this key can call

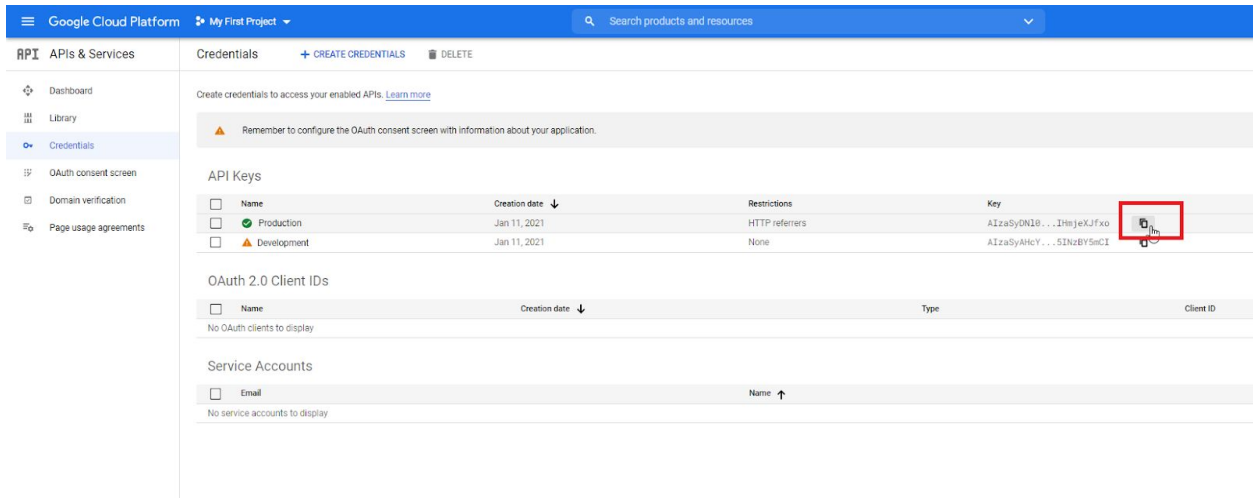● Don't restrict key
   This key can call any API
○ Restrict key

Note: It may take up to 5 minutes for settings to take effect

SAVE   CANCEL

Lastly, click "Save" to save all the changes for the key.

Step 6 - Send us the API keys

Lastly, please send us the API keys and let us know which one is Development and which one is Production. You can copy the API keys using the following button.