How to use the Google Maps iOS SDK

We will use the Google Maps iOS SDK to:
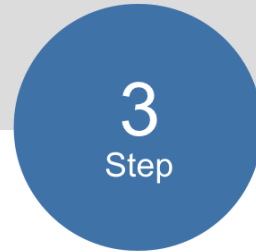
retrieve the user's current location

search for nearby points of interest

such as restaurants

What we will do?

1 Step

2 Step

3 Step
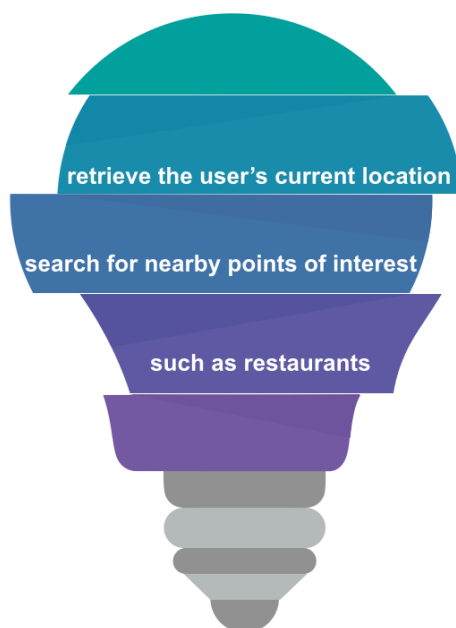
Use Google Maps iOS SDK

Get the user's current location

Search for nearby places to eat, drink, or even go grocery shopping

The important elements are:

MapViewController	GoogleDataProvider	GooglePlace	MarkerInfoView
The main view controller of this project	A wrapper class for making Google API calls	A model for place results returned from Google	A subclass of UIView that displays details of places

Step 1

Use Google Maps iOS SDK

Creating API Keys

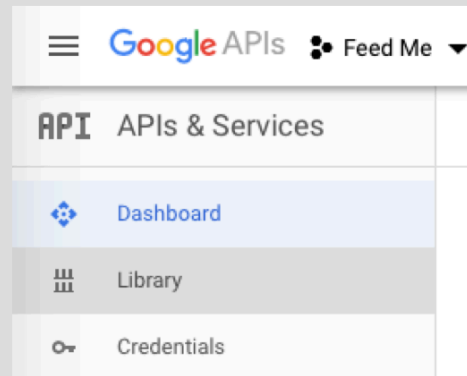Project name *
Feed Me

Project ID: feed-me-236410. It cannot be changed later.   EDIT

Location *
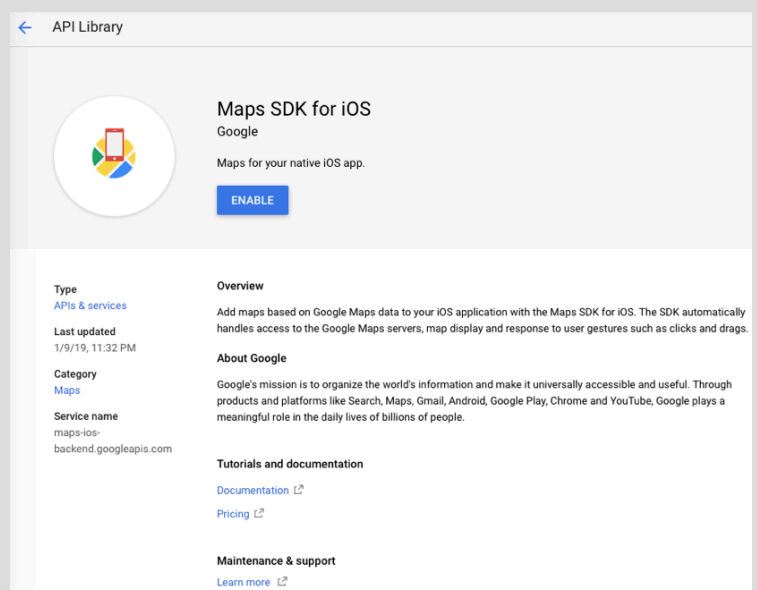No organization   BROWSE

Parent organization or folder
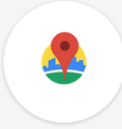
CREATE   CANCEL

Select
APIs & SERVICES

Google APIs **:•** Feed Me ▼

API APIs & Services

Dashboard

Library

Credentials

Search and enable
Maps SDK for iOS

← API Library

Maps SDK for iOS
Google

Maps for your native iOS app.

ENABLE

Type
APIs & services

Last updated
1/9/19, 11:32 PM

Category
Maps

Service name
maps-ios-
backend.googleapis.com

Overview
Add maps based on Google Maps data to your iOS application with the Maps SDK for iOS. The SDK automatically handles access to the Google Maps servers, map display and response to user gestures such as clicks and drags.

About Google
Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.

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Search and enable Places API

Create credentials

click API key

Copy the key

# Adding the SDK

1   Open **Podfile** and add the pod 'GoogleMaps'

2   Open **Terminal** and navigate to the directory that contains your **Feed Me** project

3   pod install to install the Google Maps iOS SDK

Step 2

Get the user's current location

Getting the user's current location
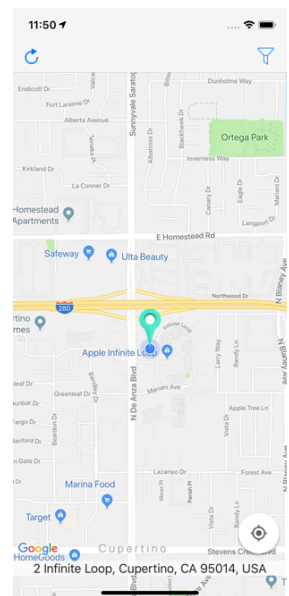
1   Add and instantiate a **CLLocationManager** property

2   Make **MapViewController** the delegate of **locationManager**

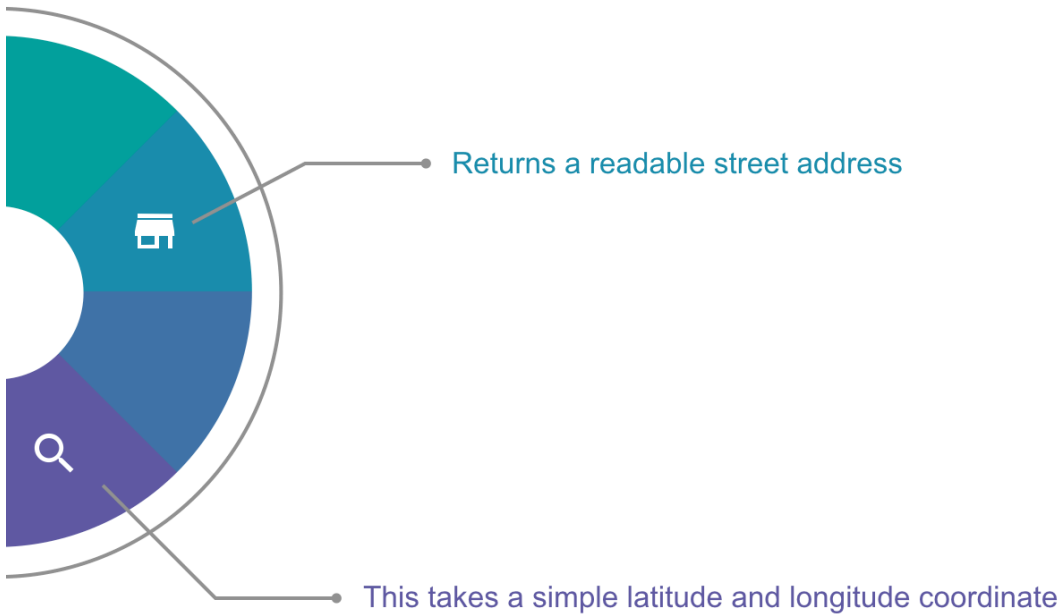**3**   Request access to the user's location

---
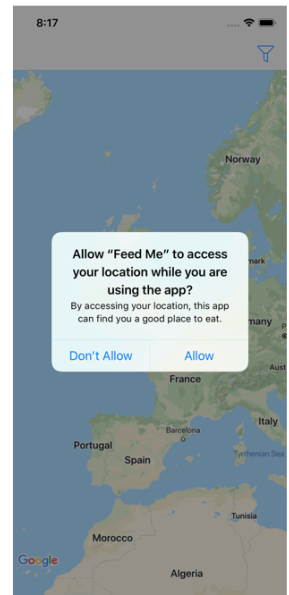
GMSMapView

1 **myLocationEnabled**

Draws a light blue dot where the user is located

2 **myLocationButton**

Adds a button to the map that, when tapped, centers the map on the user's location

GMSGeocoder

Returns a readable street address

This takes a simple latitude and longitude coordinate
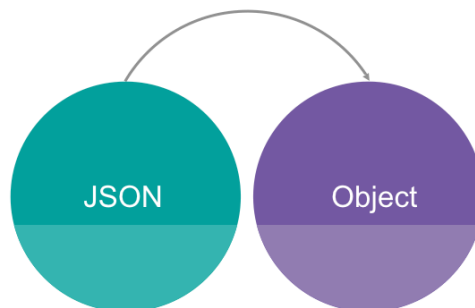

Step 3

Search for nearby places

Finding Something to Eat

Google Places API

To search for places to eat and drink around the user's location

Parsing JSON

JSON

Object

Parsing JSON

JSON

Object

```json
{
  "plus_code": {...},
  "price_level": 1,
  "types": [
    "bakery",
    "store",
    "point_of_interest",
    "food",
    "establishment"
  ],
  "geometry": {
    "location": {
      "lng": -122.033824,
      "lat": 37.324606
    },
    "viewport": {...}
  },
  "id": "e88ae99060deb1960b81b8895df64abc828bc034",
  "photos": [
    {
      "photo_reference": "CmRaAAAAr7qii_puEORMDCuE5ZfrJDjU8nPVlr0koQJ461dTnCTu9WjGxuYybsY8aloLhMbgb5bI4Da
        -gNYHYxqaHH6wqTHu_l5UlNoAUFIl3E_NqlaBdv9wv3z9_K0dGbXP1d3AEhDNuzDMg0lEpL31gNfRik60GhR3ycAzzWgOPAGdH78uGb55ixrEJg",
      "width": 2560,
      "html_attributions": [...],
      "height": 1920
    }
  ],
  "scope": "GOOGLE",
  "opening_hours": {...},
  "user_ratings_total": 12,
  "place_id": "ChIJtyma8621j4ARBSNbZmY8oZ0",
  "icon": "https://maps.gstatic.com/mapfiles/place_api/icons/restaurant-71.png",
  "reference": "ChIJtyma8621j4ARBSNbZmY8oZ0",
  "name": "Sheng Kee Bakery",
  "rating": 3.8,
  "vicinity": "10122-C Bandley Drive, Cupertino"
},
```

```swift
class GooglePlace {
  let name: String
  let address: String
  let coordinate: CLLocationCoordinate2D
  let placeType: String
  var photoReference: String?
  var photo: UIImage?
}
```

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