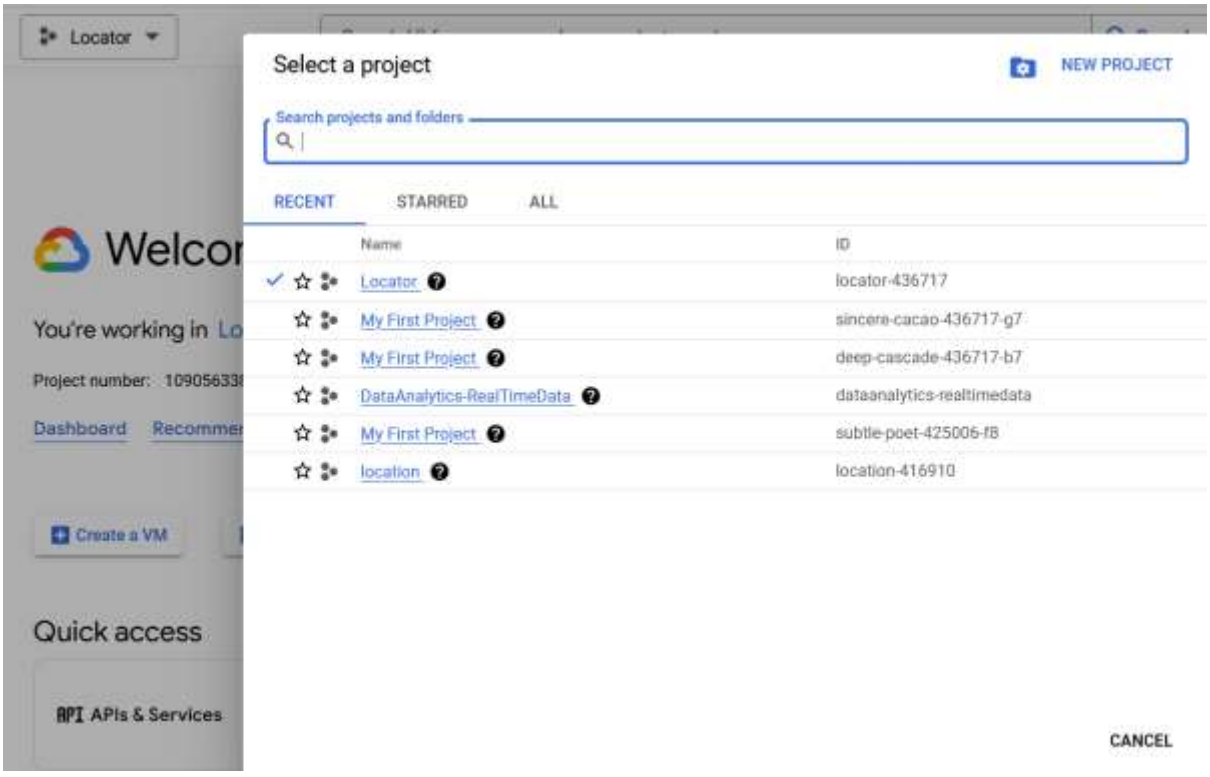
To create a new project in the Google Cloud Console, follow these steps:

1. **Go to the Google Cloud Console**: Visit Google Cloud Console.
2. **Sign in**: If you're not already signed in, log in with your Google account.
3. **Open the Project Selector**:
    - In the top navigation bar, click on the dropdown next to your project name (or it may say “Select a project”).
    - This will open the Project Selector dialog.
4. **Create a New Project**:
    - In the Project Selector dialog, you will see a button labeled **"New Project"**. Click on it.
    - Fill in the required information:
        - **Project Name**: Enter a name for your project.
        - **Location**: You can leave this as "No organization" if you're not using an organization.
    - Click on the **"Create"** button to create your project.



5. **Select Your Project**: Once created, ensure your new project is selected in the project dropdown.

Next Steps

After creating your project, follow these steps to enable the Maps SDK and obtain your API key:

1. **Enable Maps SDK for Android**:
    - In the left sidebar, navigate to **"APIs & Services"** > **"Library"**.
    - In the library, search for **"Maps SDK for Android"**.
    - Click on it, then click on the **"Enable"** button.
2. **Create Credentials**:
    - After enabling the Maps SDK, navigate to **"APIs & Services"** > **"Credentials"** in the left sidebar.
    - Click on the **"Create Credentials"** button at the top and select **"API key"**.
    - Copy the generated API key.

MainActivity.kt

```
package com.example.locator

import android.Manifest
import android.content.pm.PackageManager
import android.location.Geocoder
import android.location.Location
import android.os.Bundle
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import com.google.android.gms.location.FusedLocationProviderClient
import com.google.android.gms.location.LocationServices
import com.google.android.gms.maps.CameraUpdateFactory
import com.google.android.gms.maps.GoogleMap
import com.google.android.gms.maps.OnMapReadyCallback
import com.google.android.gms.maps.SupportMapFragment
import com.google.android.gms.maps.model.LatLng
import com.google.android.gms.maps.model.MarkerOptions

class MainActivity : AppCompatActivity(), OnMapReadyCallback {

    private lateinit var mMap: GoogleMap
    private lateinit var fusedLocationClient: FusedLocationProviderClient

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        // Initialize the FusedLocationProviderClient
        fusedLocationClient =
LocationServices.getFusedLocationProviderClient(this)
```

```
        // Obtain the SupportMapFragment and get notified when the map is
ready to be used.
        val mapFragment = supportFragmentManager
            .findFragmentById(R.id.map) as SupportMapFragment
        mapFragment.getMapAsync(this)
    }

    override fun onMapReady(googleMap: GoogleMap) {
        mMap = googleMap

        // Check for location permissions
        if (ActivityCompat.checkSelfPermission(
                this,
                Manifest.permission.ACCESS_FINE_LOCATION
            ) != PackageManager.PERMISSION_GRANTED &&
ActivityCompat.checkSelfPermission(
                this,
                Manifest.permission.ACCESS_COARSE_LOCATION
            ) != PackageManager.PERMISSION_GRANTED
        ) {
            // Request location permissions
            ActivityCompat.requestPermissions(
                this,
                arrayOf(Manifest.permission.ACCESS_FINE_LOCATION,
Manifest.permission.ACCESS_COARSE_LOCATION),
                LOCATION_PERMISSION_REQUEST_CODE
            )
            return
        }

        // Enable MyLocation layer if permissions are granted
        mMap.isMyLocationEnabled = true

        // Get current location
        getCurrentLocation()
    }

    companion object {
        private const val LOCATION_PERMISSION_REQUEST_CODE = 1
    }

    override fun onRequestPermissionsResult(
        requestCode: Int,
        permissions: Array<String>,
        grantResults: IntArray
    ) {
        super.onRequestPermissionsResult(requestCode, permissions,
grantResults)

        if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
            if ((grantResults.isNotEmpty() && grantResults[0] ==
PackageManager.PERMISSION_GRANTED)) {
                // Permission was granted
                if (ActivityCompat.checkSelfPermission(
                        this,
                        Manifest.permission.ACCESS_FINE_LOCATION
                    ) == PackageManager.PERMISSION_GRANTED ||
ActivityCompat.checkSelfPermission(
                        this,
                        Manifest.permission.ACCESS_COARSE_LOCATION
```

```
                    ) == PackageManager.PERMISSION_GRANTED
                ) {
                    mMap.isMyLocationEnabled = true
                    getCurrentLocation()
                }
            } else {
                // Permission denied
                Toast.makeText(this, "Location permission denied",
Toast.LENGTH_SHORT).show()
            }
        }
    }

    private fun getCurrentLocation() {
        if (ActivityCompat.checkSelfPermission(
                this,
                Manifest.permission.ACCESS_FINE_LOCATION
            ) != PackageManager.PERMISSION_GRANTED &&
ActivityCompat.checkSelfPermission(
                this,
                Manifest.permission.ACCESS_COARSE_LOCATION
            ) != PackageManager.PERMISSION_GRANTED
        ) {
            // If permission is not granted, return
            return
        }

        fusedLocationClient.lastLocation.addOnSuccessListener { location:
Location? ->
            if (location != null) {
                val currentLatLng = LatLng(location.latitude,
location.longitude)

mMap.addMarker(MarkerOptions().position(currentLatLng).title("Current
Location"))

mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(currentLatLng, 15f))
            } else {
                Toast.makeText(this, "Unable to get current location",
Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```

Activity_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <fragment
        android:id="@+id/map"
        android:name="com.google.android.gms.maps.SupportMapFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />


</RelativeLayout>
```

Open Your AndroidManifest File

Add your API there