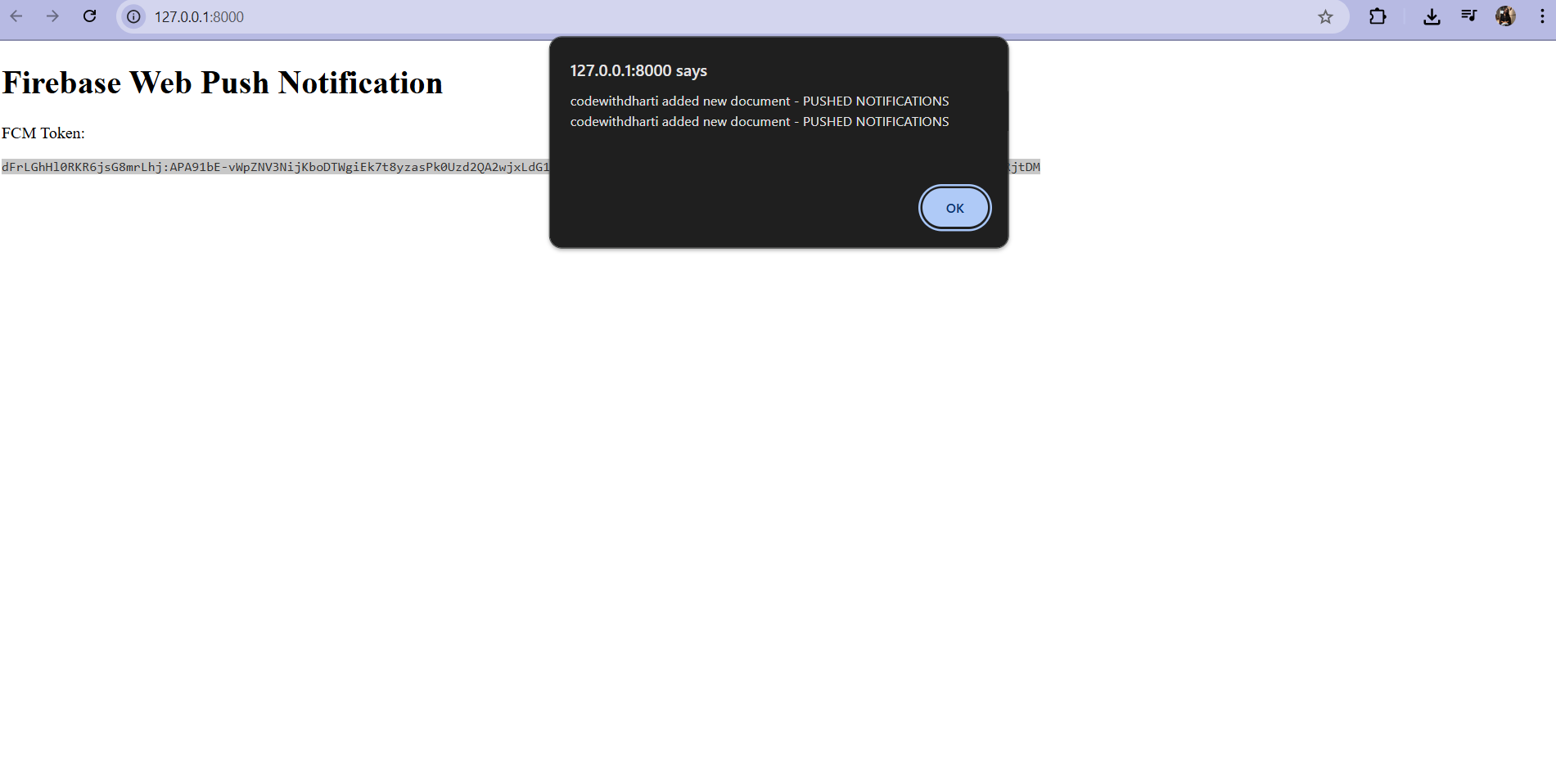
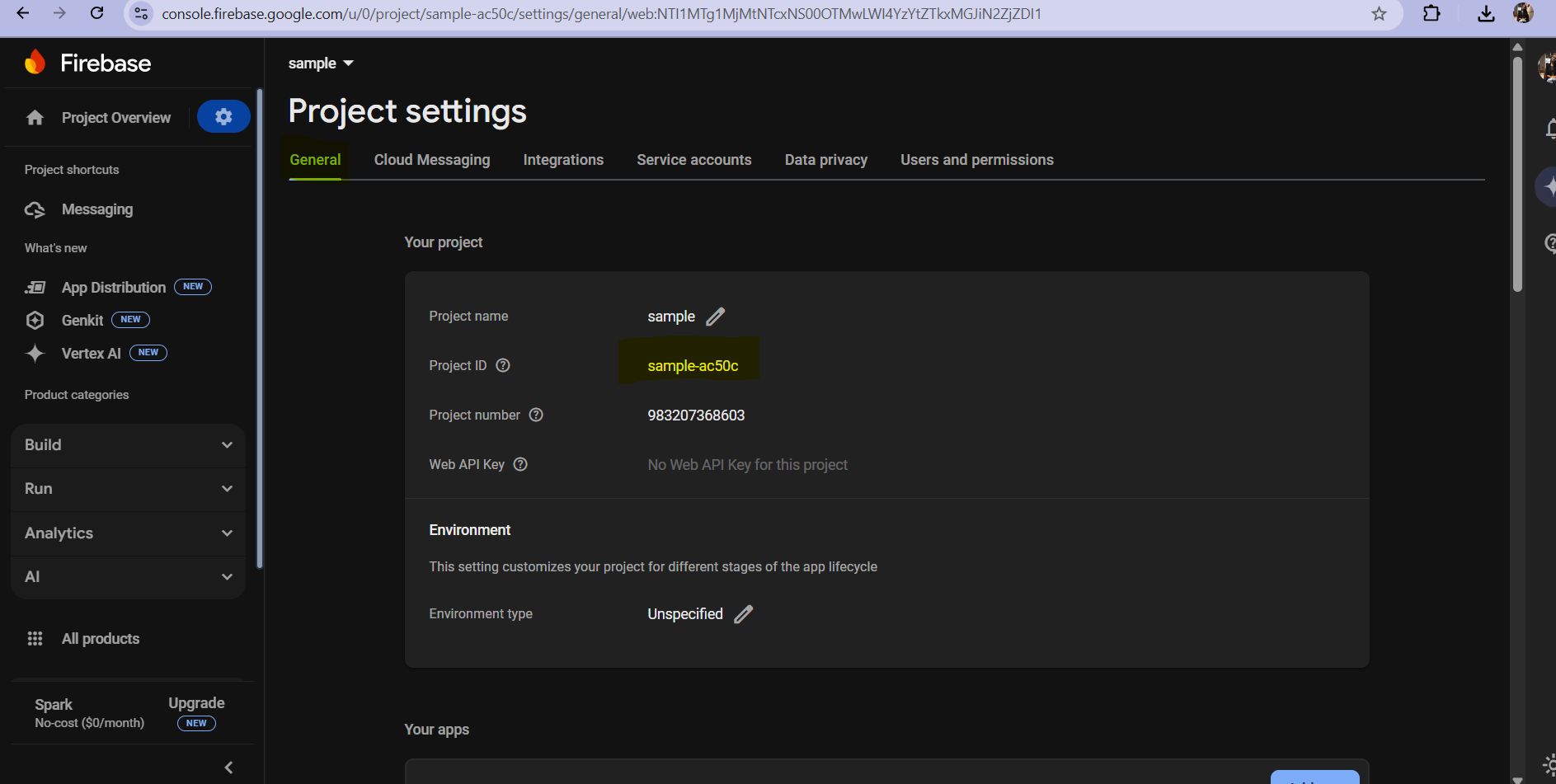
Output



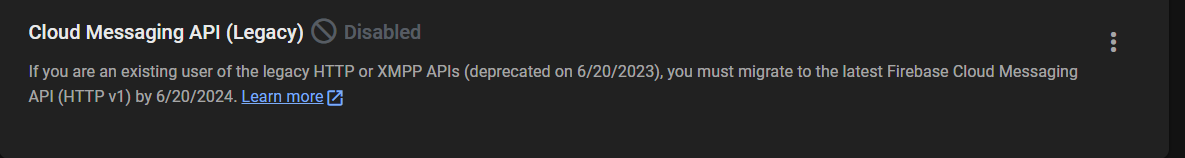


Setup - Firebase

Setting -> project setting (create one project if not exist)



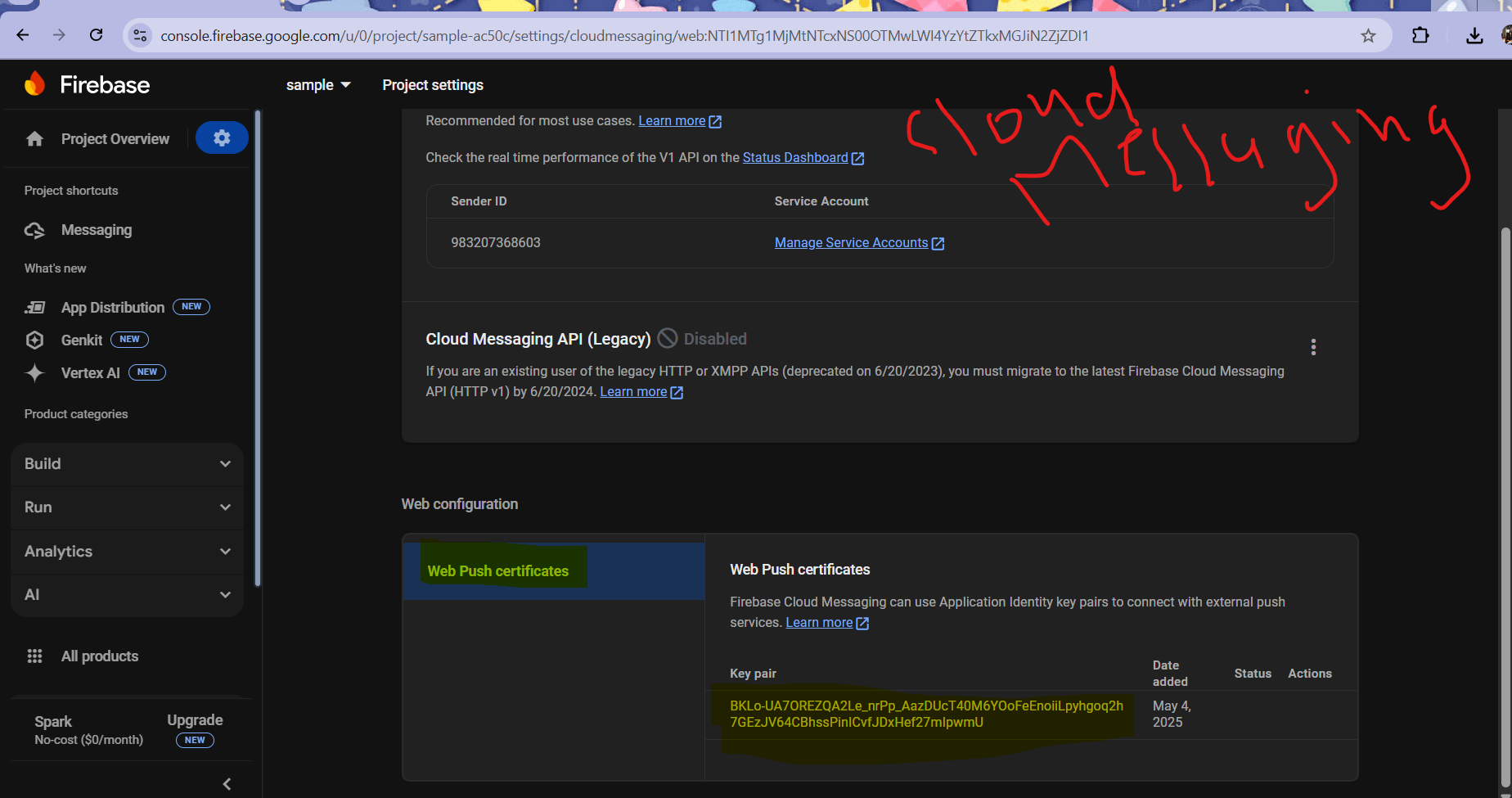
Note:- as its disable we will use below method.



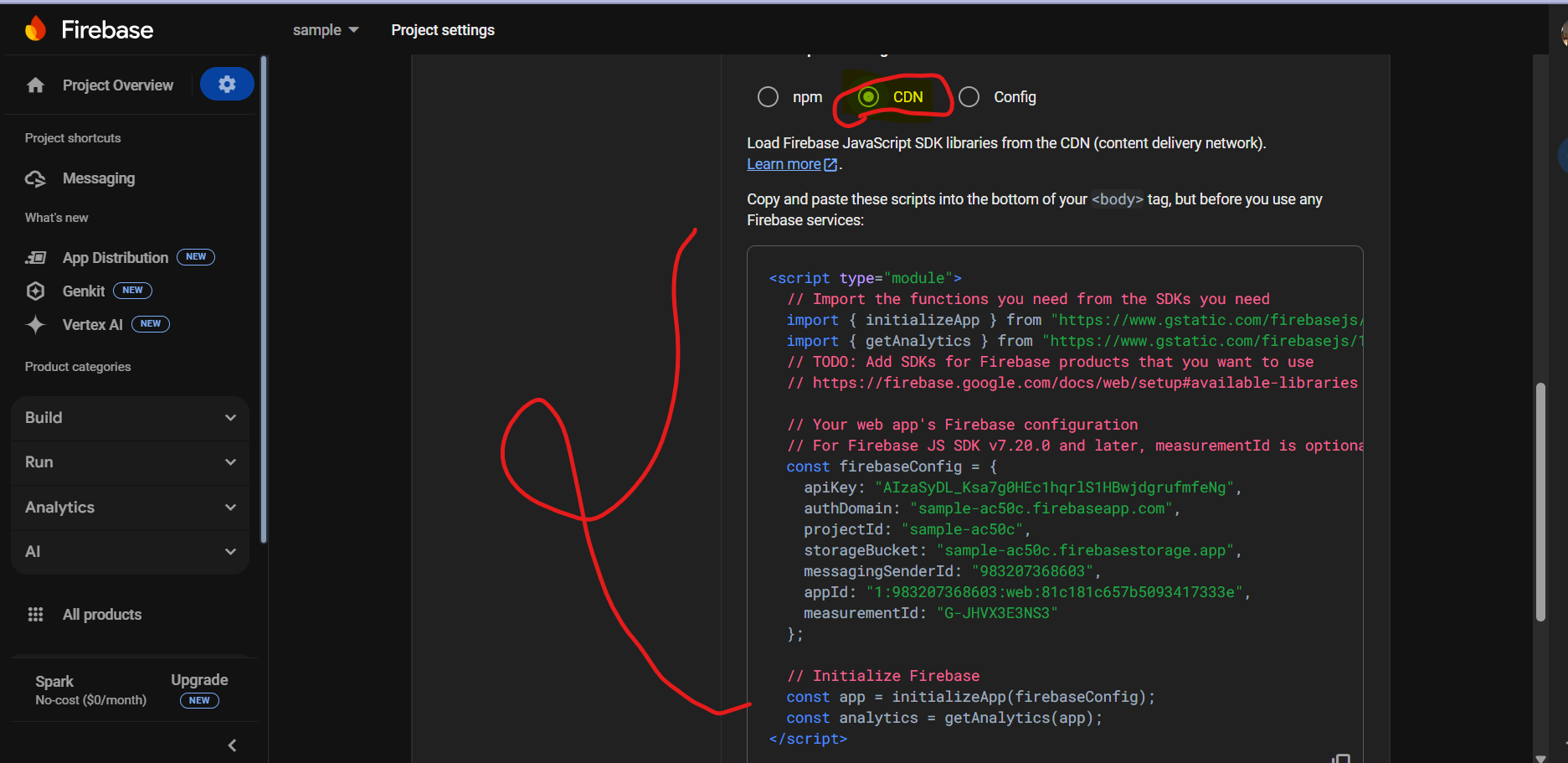
    url = f'https://fcm.googleapis.com/v1/projects/{PROJECT\_ID}/messages:send'

inside cloud messaging, generate key pair value if not exist.

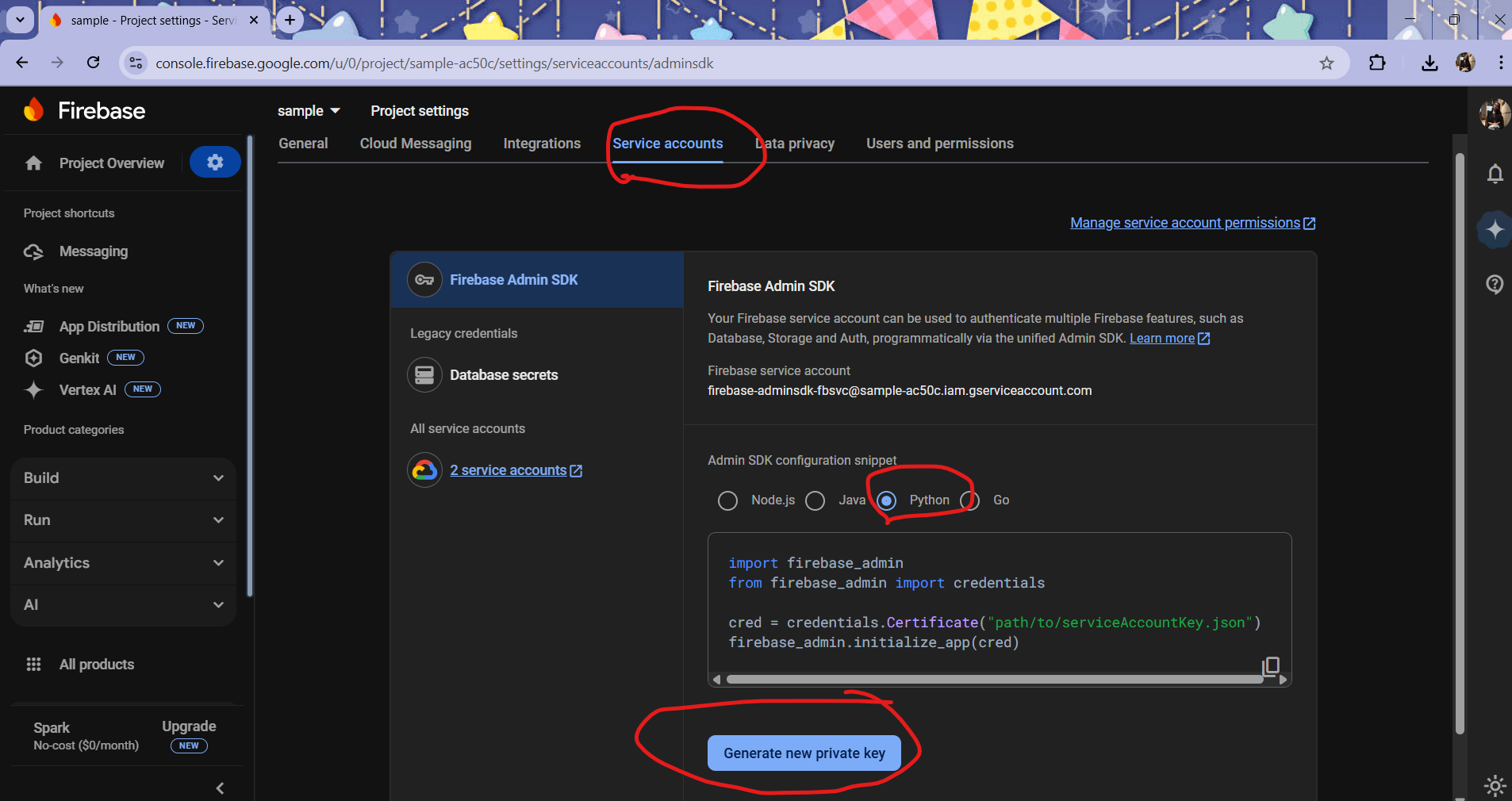
That we will use inside index.html as vapidkey



This you can get from on firebase console -> inside project -> go to settings -> click cdn and you get get it. This we will use inside firebase\_sw\_js api



Download this, put this file inside project will use it in process.



Create Django project and inside that create app register it and do basic setup

Inside app -> create Templates folder -> index.html create

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>

  <title>Firebase Push Notification Test</title>

</head>

<body>

  <h1>Firebase Web Push Notification</h1>

  <p>FCM Token:</p>

  <pre id="tokenOutput">Waiting for permission...</pre>

  <script type="module">

    import { initializeApp } from "https://www.gstatic.com/firebasejs/11.6.1/firebase-app.js";

    import {

      getMessaging,

      getToken,

      onMessage

    } from "https://www.gstatic.com/firebasejs/11.6.1/firebase-messaging.js";

    // 1) Your Firebase config

    const firebaseConfig = {

      apiKey: "AIzaSyDL\_Ksa7g0HEc1hqrlS1HBwjdgrufmfeNg",

      authDomain: "sample-ac50c.firebaseapp.com",

      projectId: "sample-ac50c",

      storageBucket: "sample-ac50c.firebasestorage.app",

      messagingSenderId: "983207368603",

      appId: "1:983207368603:web:81c181c657b5093417333e",

      measurementId: "G-JHVX3E3NS3"

    };

    // 2) Initialize Firebase & Messaging

    const app = initializeApp(firebaseConfig);

    const messaging = getMessaging(app);

    // 3) Helper to show text on page

    const output = (msg) => {

      document.getElementById('tokenOutput').innerText = msg;

    };

    // 4) Workflow: request permission → register SW → getToken

    Notification.requestPermission()

      .then((permission) => {

        if (permission !== 'granted') {

          throw new Error('Notification permission not granted');

        }

        output('Permission granted. Registering service worker…');

        return navigator.serviceWorker.register('/firebase-messaging-sw.js');

      })

      .then((registration) => {

        console.log('Service Worker registered:', registration.scope);

        output('Service worker registered. Retrieving token…');

        return getToken(messaging, {

          vapidKey: 'BKLo-UA7OREZQA2Le\_nrPp\_AazDUcT40M6YOoFeEnoiiLpyhgoq2h7GEzJV64CBhssPinICvfJDxHef27mIpwmU',

          serviceWorkerRegistration: registration

        });

      })

      .then((currentToken) => {

        if (currentToken) {

          console.log('FCM Token:', currentToken);

          output(currentToken);

          // TODO: POST this token to your Django API for storage

        } else {

          output('No registration token available.');

        }

      })

      .catch((err) => {

        console.error('Error during initialization:', err);

        output('Error: ' + err.message);

      });

    // 5) Foreground message listener

    onMessage(messaging, (payload) => {

      console.log('Message received in foreground:', payload);

      alert(`${payload.notification.title}\n${payload.notification.body}`);

    });

  </script>

</body>

</html>

Get this from firebase.

    const firebaseConfig = {

      apiKey: "AIzaSyDL\_Ksa7g0HEc1hqrlS1HBwjdgrufmfeNg",

      authDomain: "sample-ac50c.firebaseapp.com",

      projectId: "sample-ac50c",

      storageBucket: "sample-ac50c.firebasestorage.app",

      messagingSenderId: "983207368603",

      appId: "1:983207368603:web:81c181c657b5093417333e",

      measurementId: "G-JHVX3E3NS3"

    };

Project urls.py

from django.contrib import admin

from django.urls import path, include

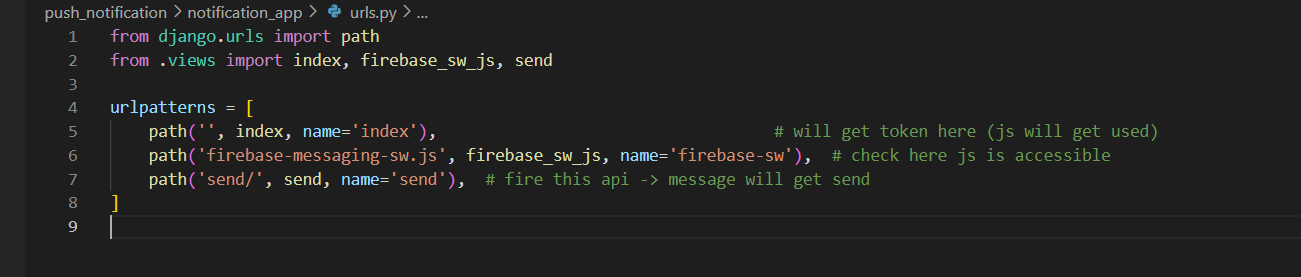
urlpatterns = [

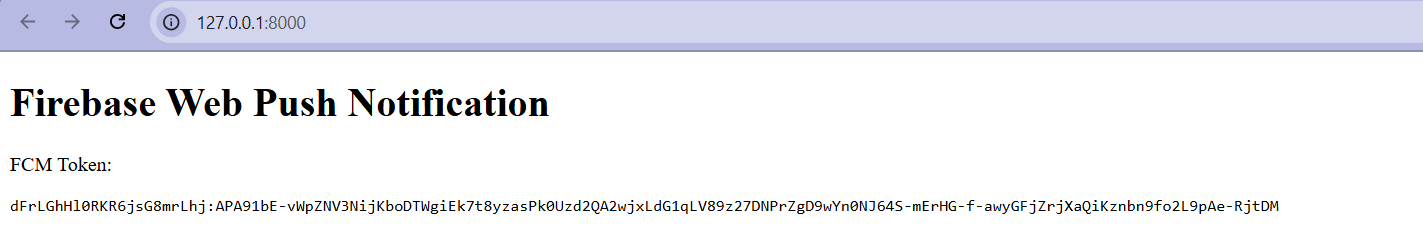
    path('admin/', admin.site.urls),

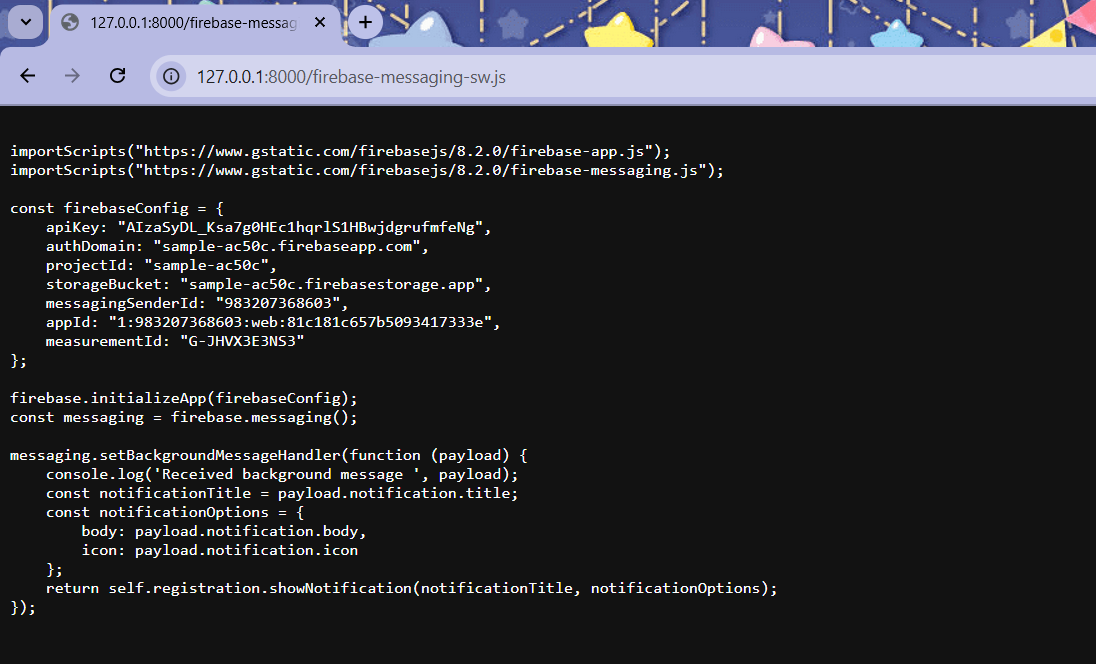
    path('', include('notification\_app.urls')),

]

app urls.py







Set views for this urls which includes logic

1. To generate token
2. To use in index file – js file
3. Send notifications

import json

from django.shortcuts import render

from django.http import HttpResponse

import requests

import google.auth

from google.oauth2 import service\_account

from google.auth.transport.requests import Request

import os

from django.conf import settings

SERVICE\_ACCOUNT\_FILE = os.path.join(

    settings.BASE\_DIR,

    "sample-ac50c-firebase-adminsdk-fbsvc-6610fb8842.json"

)

PROJECT\_ID = 'sample-ac50c'

# Create your views here.

def index(request):

    return render(request, 'index.html')

def showFirebaseJS(request):

    data = '''

importScripts("https://www.gstatic.com/firebasejs/8.2.0/firebase-app.js");

importScripts("https://www.gstatic.com/firebasejs/8.2.0/firebase-messaging.js");

const firebaseConfig = {

    apiKey: "AIzaSyDL\_Ksa7g0HEc1hqrlS1HBwjdgrufmfeNg",

    authDomain: "sample-ac50c.firebaseapp.com",

    projectId: "sample-ac50c",

    storageBucket: "sample-ac50c.firebasestorage.app",

    messagingSenderId: "983207368603",

    appId: "1:983207368603:web:81c181c657b5093417333e",

    measurementId: "G-JHVX3E3NS3"

};

firebase.initializeApp(firebaseConfig);

const messaging = firebase.messaging();

messaging.setBackgroundMessageHandler(function (payload) {

    console.log(payload);

    const notification = JSON.parse(payload);

    const notificationOption = {

        body: notification.body,

        icon: notification.icon

    };

    return self.registration.showNotification(payload.notification.title, notificationOption);

});

    '''

    return HttpResponse(data, content\_type="text/javascript")

# views.py

from django.http import HttpResponse

def firebase\_sw\_js(request):

    js\_code = '''

importScripts("https://www.gstatic.com/firebasejs/8.2.0/firebase-app.js");

importScripts("https://www.gstatic.com/firebasejs/8.2.0/firebase-messaging.js");

const firebaseConfig = {

    apiKey: "AIzaSyDL\_Ksa7g0HEc1hqrlS1HBwjdgrufmfeNg",

    authDomain: "sample-ac50c.firebaseapp.com",

    projectId: "sample-ac50c",

    storageBucket: "sample-ac50c.firebasestorage.app",

    messagingSenderId: "983207368603",

    appId: "1:983207368603:web:81c181c657b5093417333e",

    measurementId: "G-JHVX3E3NS3"

};

firebase.initializeApp(firebaseConfig);

const messaging = firebase.messaging();

messaging.setBackgroundMessageHandler(function (payload) {

    console.log('Received background message ', payload);

    const notificationTitle = payload.notification.title;

    const notificationOptions = {

        body: payload.notification.body,

        icon: payload.notification.icon

    };

    return self.registration.showNotification(notificationTitle, notificationOptions);

});

    '''

    return HttpResponse(js\_code, content\_type='application/javascript')

def get\_access\_token():

    credentials = service\_account.Credentials.from\_service\_account\_file(

        SERVICE\_ACCOUNT\_FILE,

        scopes=['https://www.googleapis.com/auth/firebase.messaging']

    )

    request = Request()

    credentials.refresh(request)

    return credentials.token

def send\_fcm\_v1\_notification(registration\_token, title, body):

    access\_token = get\_access\_token()

    url = f'https://fcm.googleapis.com/v1/projects/{PROJECT\_ID}/messages:send'

    headers = {

        'Authorization': f'Bearer {access\_token}',

        'Content-Type': 'application/json; UTF-8',

    }

    message = {

        "message": {

            "token": registration\_token,

            "notification": {

                "title": title,

                "body": body

            }

        }

    }

    response = requests.post(url, headers=headers, data=json.dumps(message))

    return response.status\_code, response.text

def send(request):

    registration\_token = 'dFrLGhHl0RKR6jsG8mrLhj:APA91bE-vWpZNV3NijKboDTWgiEk7t8yzasPk0Uzd2QA2wjxLdG1qLV89z27DNPrZgD9wYn0NJ64S-mErHG-f-awyGFjZrjXaQiKznbn9fo2L9pAe-RjtDM'  #device token

    title = 'codewithdharti added new document - PUSHED NOTIFICATIONS'

    body = 'codewithdharti added new document - PUSHED NOTIFICATIONS'

    status, text = send\_fcm\_v1\_notification(registration\_token, title, body)

    return HttpResponse(f"Status: {status}<br>Response: {text}")

go to : <http://127.0.0.1:8000/>

copy token from there and used inside send api as registration\_token

then fire this api -> notification will get send

http://127.0.0.1:8000/send/