Push Notification Documentation

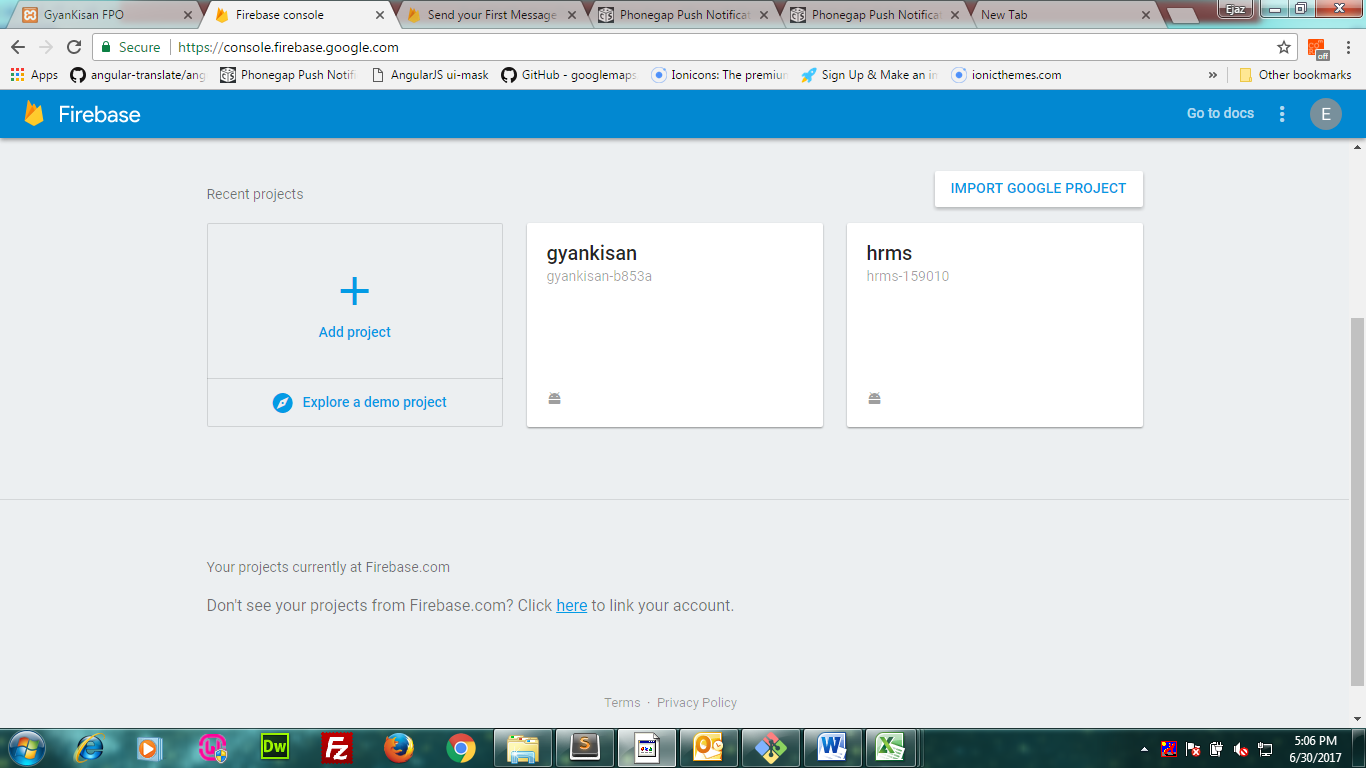
1. Introduction
2. Setup Google Firbase Account
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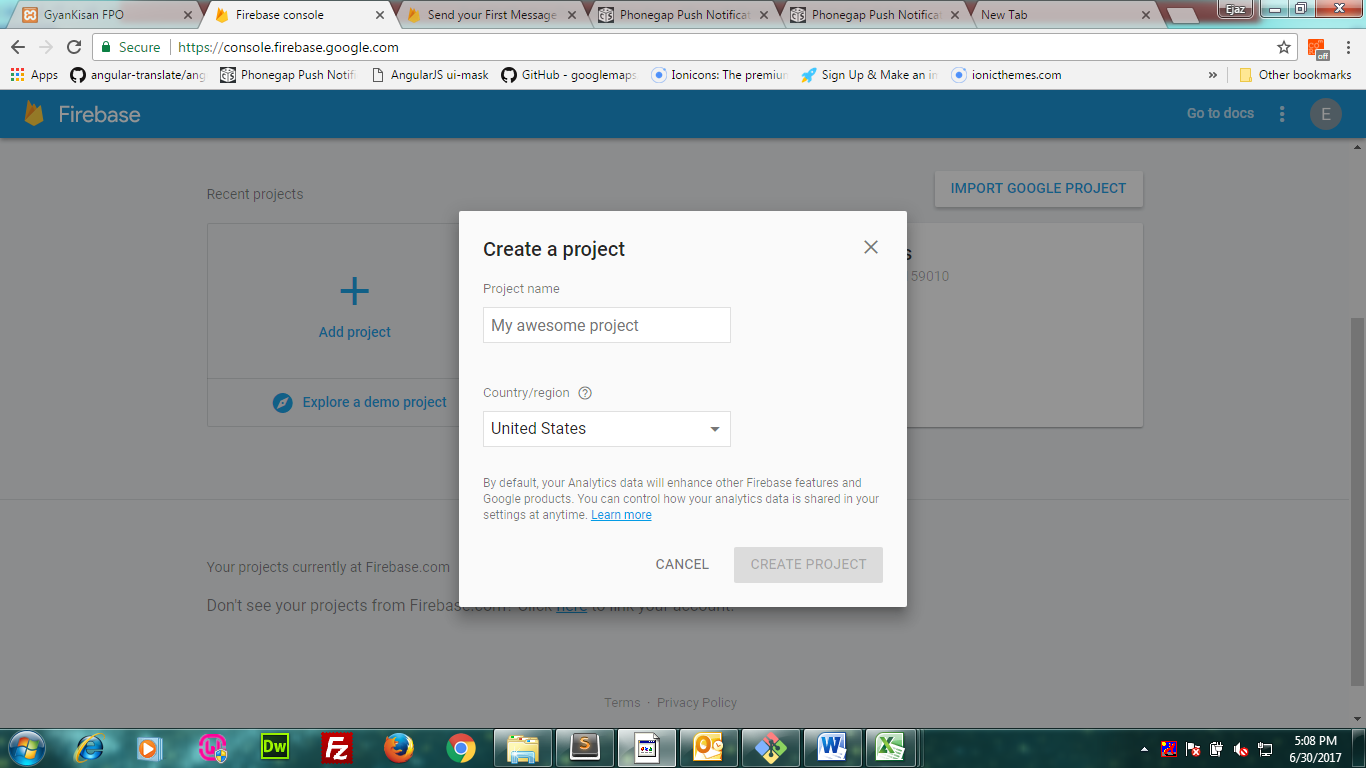
1 – Introduction

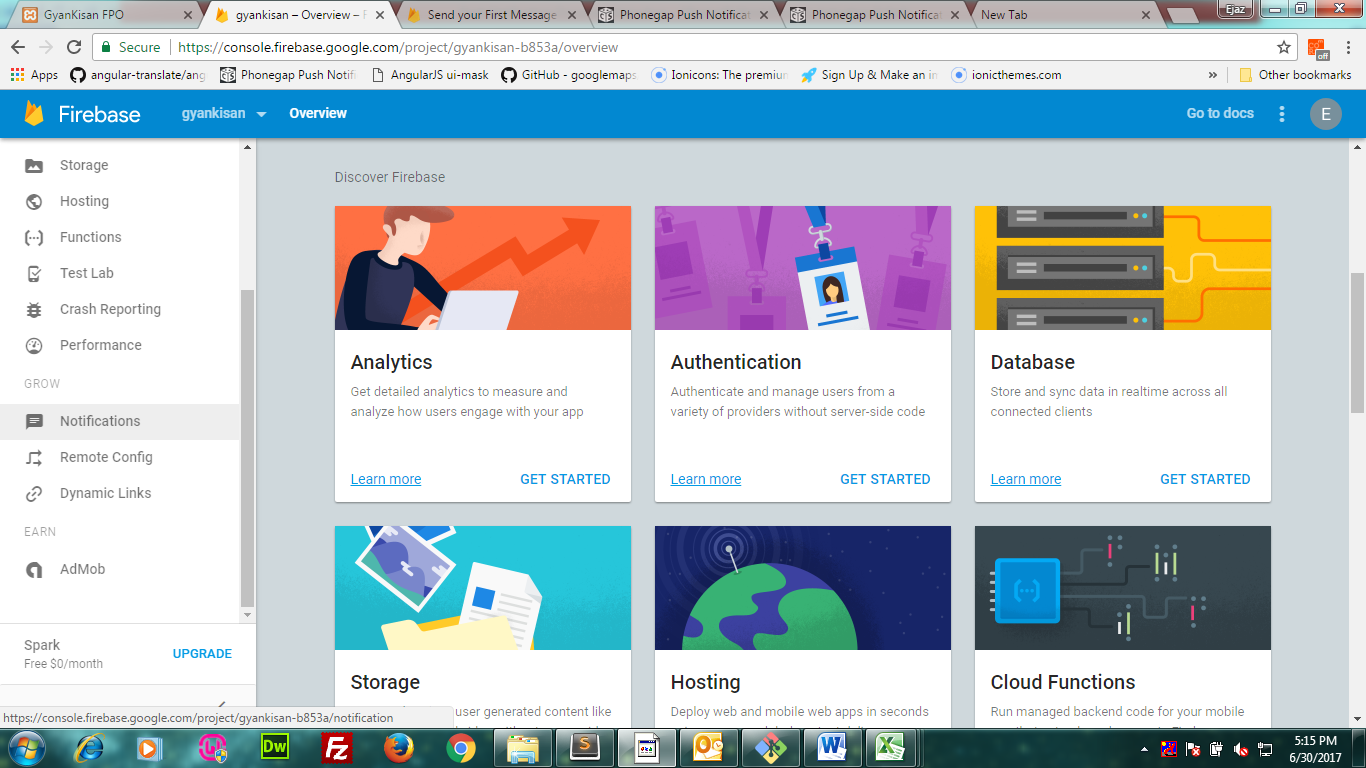
In this document I will explain how to send **Push notification** to **Ionic** based android application with Examples. All the examples included in this doc are tested. This document is highly inspired by **CODESUNDAR’s** [Apache Cordova / Phonegap Push Notification Tutorial](https://codesundar.com/phonegap-tutorial/apache-cordova-phonegap-push-notification-tutorial-part-1/) and aims to make it possible with Ionic framework and how to use PHP api.

2 – Setup Google Firebase account

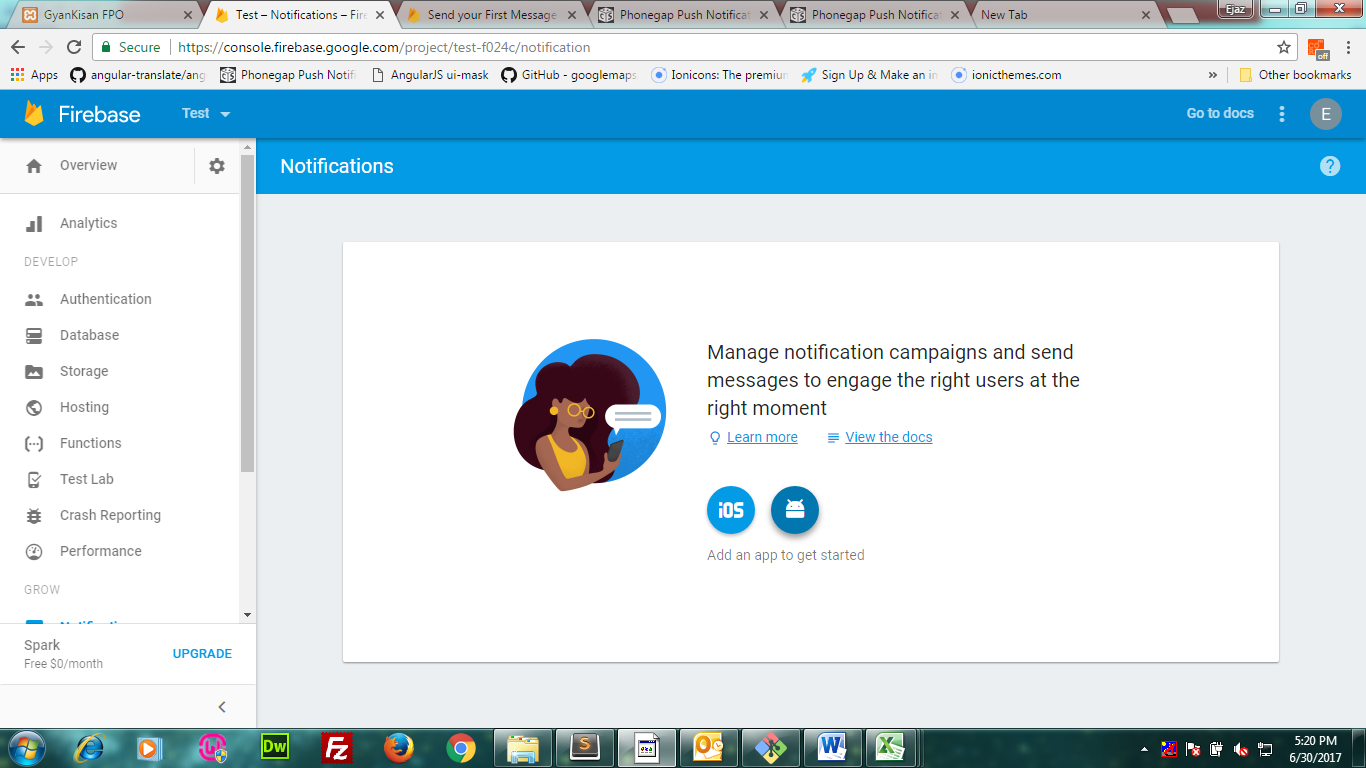
1. Go to Firebase console (<https://console.firebase.google.com>) and login with your Google account.
2. Create New Project from your dashboard by clicking Add project.



1. Type project name, select country and create project. 
2. Click “Notifications” from side menu.



1. Add an app to get started, you can choose either Android icon or IOS icon, for the case I am selecting Android icon.

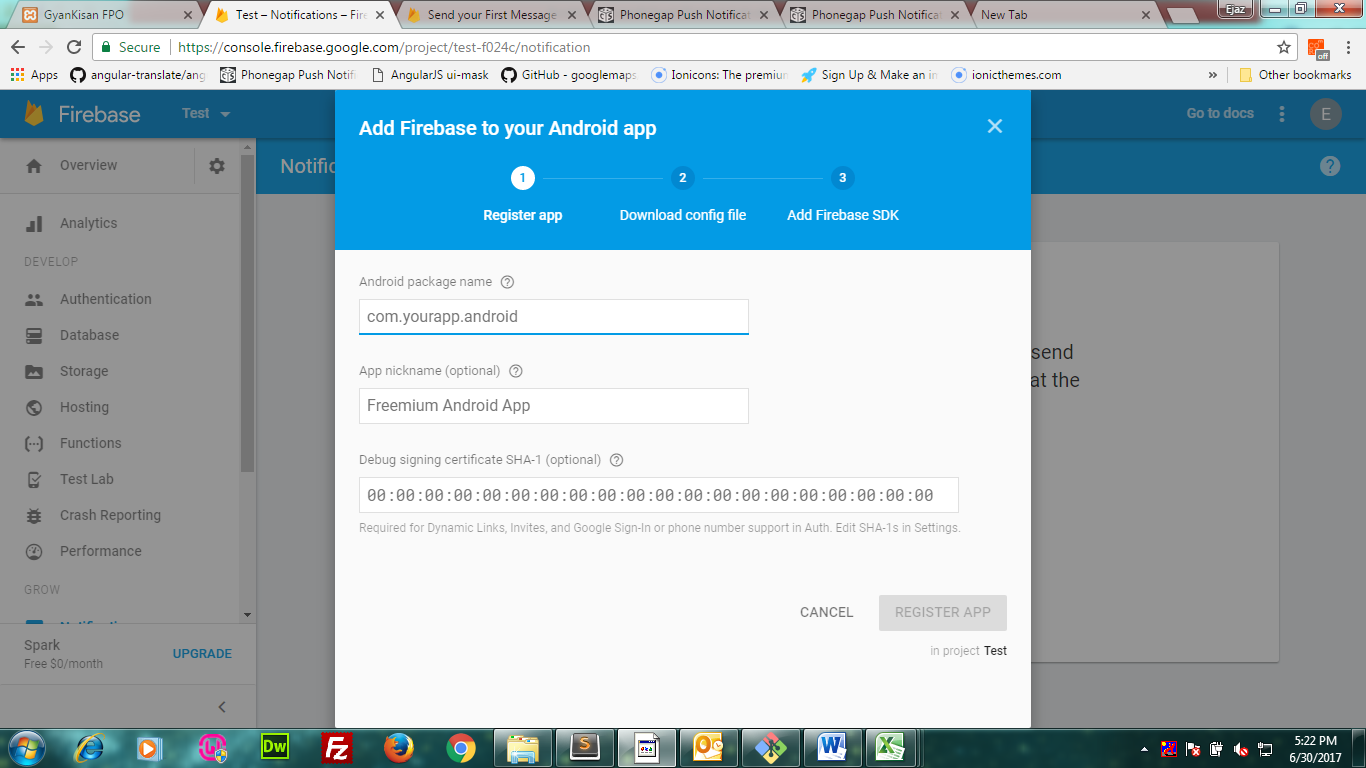


1. Now the step wizard will ask you to enter your unique Android package name, you can find your package name in config.xml file of your ionic project.

Enter your Android package name,

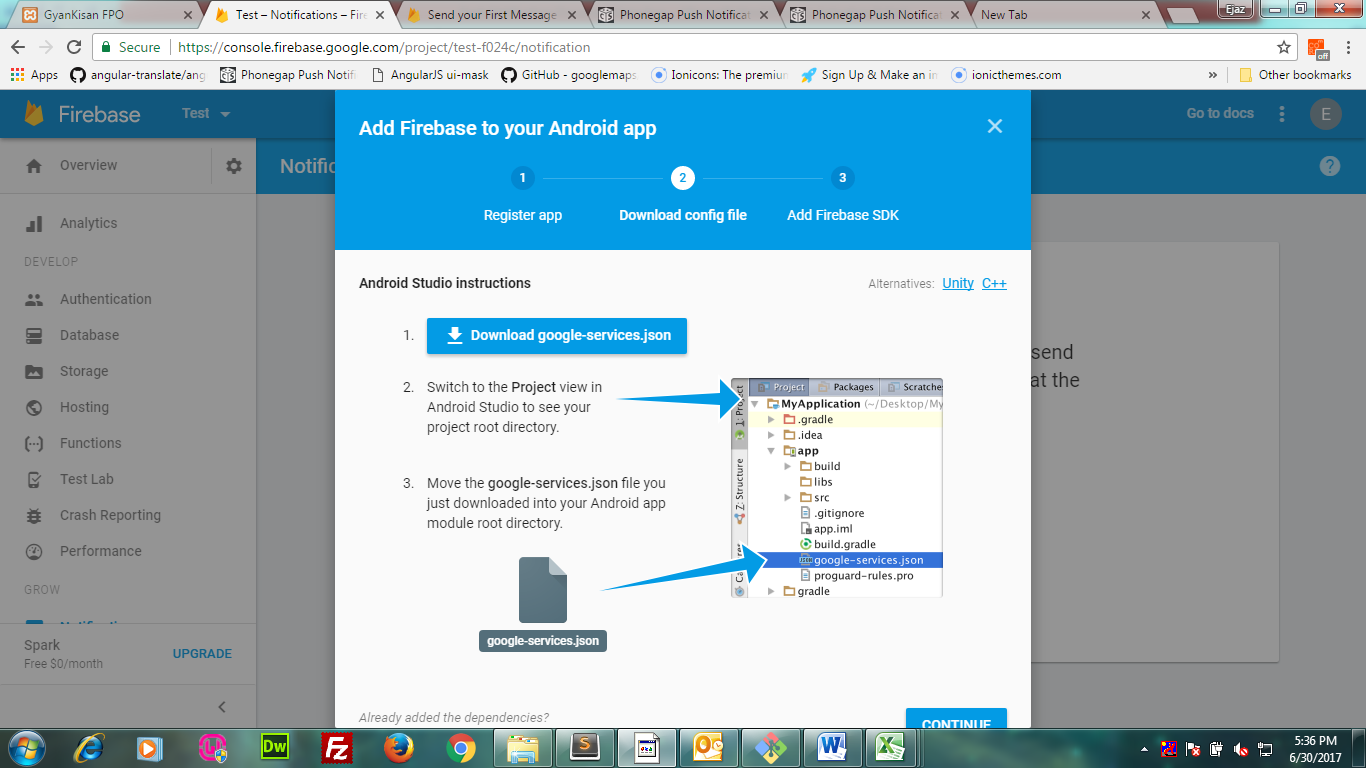
Optionally enter nick name for the app as whatever you want,

Left blank SHA-1 part and click on “Register app”.

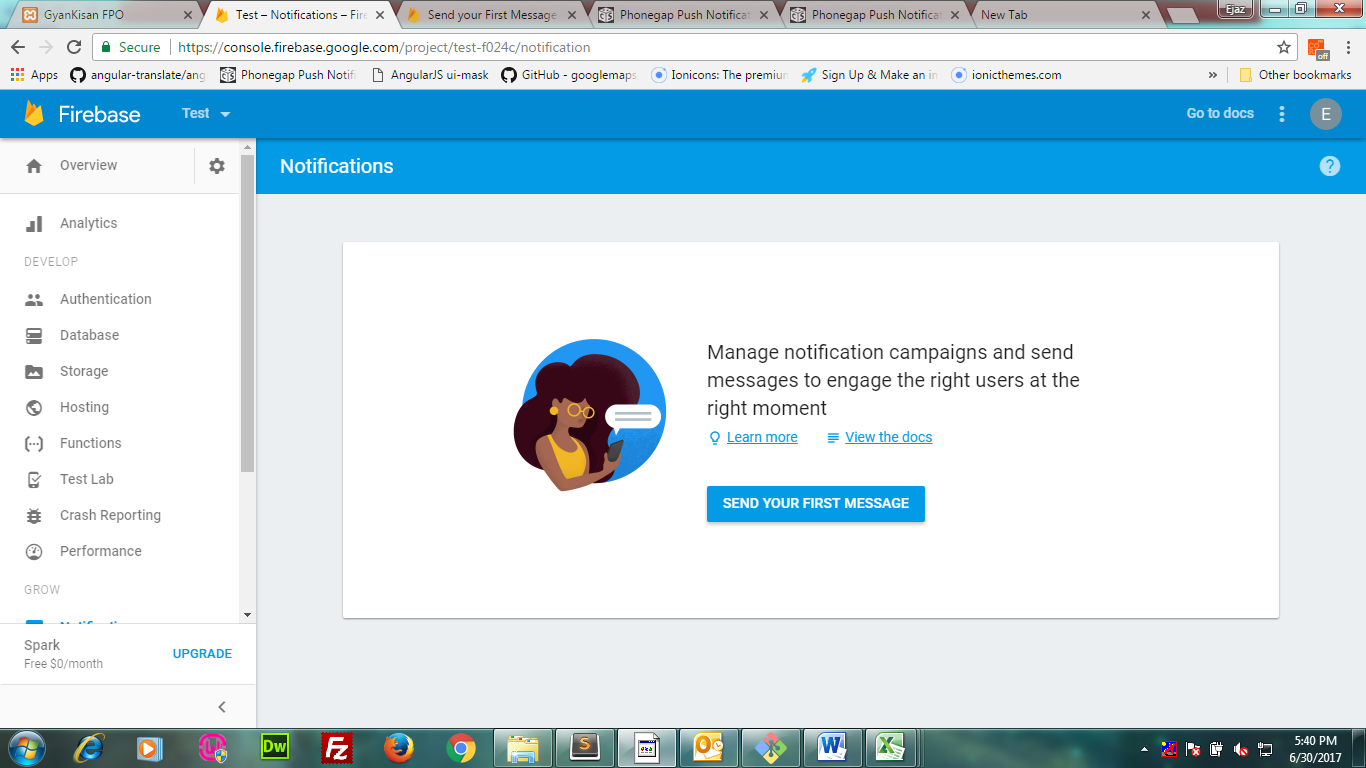


1. Step two “Download config file” will give you a button as “Download google-servisec.json” click it and file download will start.

Don’t rename the file and move it into your Android app’s root directory (located at ionic\_root\_directory/platforms/android). Press continue button and skip step 3 by clicking Finish.



1. As of now we have created our Firebase account, one project and inside project added one android app. That’s it for Firebase. Your final screen should look like bellow image.



3 – Setup Push notification in your ionic project

1. Open Command prompt or Terminal and head to your ionic project’s root directory. Install Push plugin by running following command,

**Cordova plugin add phonegap-plugin-push --variable SENDER\_ID=[YOUR-SENDER-ID] --save**

You can find your sender id in “google-services.json” file which we have saved at Android root directory while creating firebase account. The “project-number” field is nothing but “Sender-id”.

The --save option will generate a new xml field assign with sender id to your config.xml file for future use.

1. Now we have successfully installed the Push plugin, it’s time to set our Android app to listen for the notification. Open app.js file and insert the following code inside run function.

var push = PushNotification.init({ "android": {"senderID": "788378834525"}});

push.on('registration', function(data) {

console.log(data.registrationId);

document.getElementById("gcm\_id").innerHTML = data.registrationId;

});

push.on('notification', function(data) {

alert(data.title+" Message: " +data.message);

});

push.on('error', function(e) {

alert(e);

});

1. It’s all for the Android application side, if all goes ok then your app is ready to listen for the Push notification.

4 – Send real time notification from firebase console

1. Head to firebase console and go to your app notification click on “Send your first Message”.
2. Enter Message

Enter Message Nickname

Select app

And Click on “Send Message”.

1. You will see the real time push notification is fired in your Android Application.

5 – Send real time notification using PHP server side

1. Following PHP script will send the notification to specific device.

<?php

$to="APA91bFIj2WLkD3W4kbZcGO7dyI-TKKX0QpYCwtzqE2cNC0GbnUfQ7\_gvQKOUloSb9T-6OZMxKdHXj8biiMYVgRJJP-C6b3PfpC7Kzu4G77PqMeGekHU9W6qTwnu0YTtWGNd6tGMBQka";

$title="Push Notification Title";

$message="Push Notification Message";

sendPush($to,$title,$message);

function sendPush($to,$title,$message)

{

// API access key from Google API's Console

// replace API

define( 'API\_ACCESS\_KEY', 'AIzaSyC\_LcqN85irttxFXcNIzkrSkPhAfcu68HI');

$registrationIds = array($to);

$msg = array

(

'message' => $message,

'title' => $title,

'vibrate' => 1,

'sound' => 1

// you can also add images, additionalData

);

$fields = array

(

'registration\_ids' => $registrationIds,

'data' => $msg

);

$headers = array

(

'Authorization: key=' . API\_ACCESS\_KEY,

'Content-Type: application/json'

);

$ch = curl\_init();

curl\_setopt( $ch,CURLOPT\_URL, 'https://android.googleapis.com/gcm/send' );

curl\_setopt( $ch,CURLOPT\_POST, true );

curl\_setopt( $ch,CURLOPT\_HTTPHEADER, $headers );

curl\_setopt( $ch,CURLOPT\_RETURNTRANSFER, true );

curl\_setopt( $ch,CURLOPT\_SSL\_VERIFYPEER, false );

curl\_setopt( $ch,CURLOPT\_POSTFIELDS, json\_encode( $fields ) );

$result = curl\_exec($ch );

curl\_close( $ch );

echo $result;

}

?>