**TASK**

**FIREBASE VS OPENFIRE**

Make a custom plug in, on Openfire so all notification will be send to firebase.

* We got chat application: [www.thatsitpro.com](http://www.thatsitpro.com)
* We use parse for push notification! Parse will be off next year need to make good decision to:
  + Have push notification
  + Take out parse
  + Make sure notification will be completely independent from the application.
  + The solution for the push notification must work with Android, Amazon, IOS, Win10

**So, we need to send all notification from Openfire to FCM (Firebase) not the message and activity a (compilation, Resume) of the message and activity to Openfire, to FCM**

**HOW PLUG IN SHOULD WORK**

***A) WHEN USER SIGN IN IS ACCOUNT: (Xmpp SSL channel with Openfire active)***

Or

User play with the application, User is in the application …. No notification or send to **FCM.** message and activity from Openfire to the APP or live send to the app Direct.

--User stay **SIGN IN**, until the user **SIGN OUT from is account.**

**--Green is the colors of the user status.**

**APPOpenfire**

**No plugin will be need. Just like now! Direct communication of message and activity.**

**B) USER SIGN IN, and do not use the application (No xmpp channel with Openfire will be active)**

**New set up for the application-(Dilawer)**

After 10 min, user do not use application, application will go in **sleeping mode**. (send signal to **Openfire** to change the status for **Orange** and activated your **plug** **in**.

It’s mean that:

--User status will be in **orange,** for all is contact list and user still **SIGN IN**, is account in the

**OPENFIRE**

**--All notification from Openfire will go to Firebase and FCM to APP in SSL, and message will be in pending on Openfire. Important to make the difference with message and notification.**

--**FCM**, will receive notification from **Openfire** automatically and send the notification to the **device of the user** in **SSL**.

**APP** **Openfire**

**FCM** do not need to send a signal on and on to **Openfire** to say if the **user device** is **online**.

**DEVICE USER** **FCM** **Openfire**

**Until the APP stay in sleeping mode. Openfire still send noti**fication to **FCM** and **FCM** to the **DEVICE USER**

**OPENFIRE FCMUSER DEVICE**

**Until the app stay in sleeping mode Openfire PENDING message and activity of the user with the KEEP AND BOUNCE Openfire method like now….**

C) **USER SIGN IN, and lost WIFI, no network LTE, No WIFI and NO LTE data plan or Re-start is device**.

WHEN the **USER** **DEVICE** past offline. **FCM** will know! At that moment! **FCM** will store the notification send by **Openfire** …

**DEVICE USER FCM**

and **One signal** from **device user** is send to **Openfire to change the status of the user Orange TO (no colors) offline…..(MAY BE THIS NOT POSSIBLE)**

**DEVICE USER** **FCM** **OPF (no colors) status**

**Openfire** still send the notification to **FCM**.

**OPENFIRE FCM**

When the **device** get back WIFI or cell network with data plan or just re-start.

**FCM**, will send a (signal) to **Openfire** say **xmpp** is able. **Openfire** will automatically put back the color status (NO Colors) of the user to **(Orange).**

**DEVICE USER** **FCM** **OPF ORANGE Status**

**AND Pending notification from FCM will go to the device USER….**

**FCM Device USER**

**AND All notification to Openfire still past to FIREBASE to Device USER.**

**OPENFIRE FCMUSER DEVICE**

**D) User is sign out! (Dilawer)**

All message and activity or store in Openfire. With the method of Keep and Bunce. Colors of user came ***(NO Colors) Like now…….. PLUG in go OFFLINE. when user Sign in back is account it’s will be a direct SSL xmpp channel with Openfire ... and message and activity pending on Openfire will be send to the APP direct. And colors of the user will change for green.***

***GO back to A)***

Do not forget event if the user was orange **sleeping mode**, the user need to go on the app to **sign out.**

He will need to click on the application to sign out ..at that moment application came back a live and all message and activity will be download So her the user can verify is message or **sign out !**

**USER SIGN OUT**

**APP**

**E) If user click on the notification in is device, it’s will be re-direct at the right place in the application**. And the notification logo will disappear from the user device. If user go direct in the application, notification logo will disappear from the user’s device.

In both case **... message and activity**, will be load in back end so user do not have a please wait and user have an application fluid.

Important when user go in is application, Colors will change to green, because another xmpp channel will be open with **Openfire**, and of course all **message and activity** will go direct to the application in **SSL**. No notification will go to **FCM**.

**Important (DILAWER)**

* **Communication between Openfire (OPC) -Firebase(FCM)- Device User need to be SSL**
* **Notification send by Openfire to FCM:**
  + **No information like pin code etc.**
  + **When FCM send notification to the device of the user, Notification need to be SSL and If I click on the notification the notification need to disappear and re-direct the user at the good place in the application, related with the kind of notification.**
  + **Only one logo of the app, appear in the notification top bar in the device of the user, if the USER A, have a lot of notification, Message need to appear like a compilation.**
    - **You have 4 chat message**
    - **You have 5 group chat message**
    - **You receive 5 invitations**
    - **5 friends accept your invitation.**
    - **5 group chats message**
    - **6 invitations to Group chat**
    - **3 friends have deleting you.**
  + **ADMIN Notification from ADMIN SERVER We use GCM ..So Dilawer will make the immigration from GCM to FCM**
    - **Your account has been suspended by the admin**
    - **Your password has been reset**
    - **Etc.**

**QUESTIONS AND ANSWER**

1) Please let know you have Openfire test environment and account in Openfire

**Yes, will be ready for Wednesday**

2) Version of Openfire

**Openfire 4.0.3**

3) I need root access in test environment if possible

**Dilawer, we got windows server with public IP, Instead of Linux.**

4) Before start the development we need a small procedure to capture packet turning off a user's internet:

**you will need to make the set up on fire base we do not use firebase for now.**

5) The plugin will be developing in Java hope that is fine

**Will be develop in Java with xmpp communication protocol.**

6) To storing the message while user offline, I plan to use MySQL database is that fine?

Ok MSQL.

After 10 min, the user will not be using the application. Application will go in sleep mode.

From there plug in will take all notification and send it’s to FCM ... FCM, will send the notification to the user Device because device of the user still ONLINE.

If user touch the application, or notification, in back end application will load all message etc. So, application will be instantly. Fluid.

In case Device of the user past offline ... FCM will say to Openfire to store message and notification. So, when device get back online. FCM will say to Openfire that Device of the user is online. So, all notification. Wil came in the device. And when the user touch notification or application .. all message etc. will be load in back end.

So, the way firebase send the signal that the user device is online or offline. Firebase will say: a xmpp available or not. Fires base and the custom plug in never gone change the status of the user on Openfire, because of the other option in the application.

Green = user is in the app.

Orange = app foes in sleeping mode after 10 min user do not use the application.

Red = Busy

No colors = User is sign out.

1. Firebase has as an excellent chat engine and supports offline messages also. Why you want to use Openfire? Is this because you want to maintain history of chat permanently in database?

**We want to stay with Openfire because .. all application is developpe with Openfire .. and we need to have full (control) of the server Openfire, for reason of security (security). fire base is own by google ... So, in the application we assure the full security of the application**

1. System (plug in) will consider user in offline mode in following 3 cases. Please confirm: -

* Los Internet Connection  **(From Firebase vs device of the user)**
* Sign Out- **(Account on Openfire will say if user is sign out)**
* Sleep mode **(After 10 min app go sleep mode So at that time notification will be send to FCM and Openfire will store message)**

1. www.thatsitpro.com is the chat application and it has Openfire chat system implemented in it.

**Yes**

1. What chat services you want to support i.e. text, voice, group chatting, saving chat history?

**Understand that Openfire already store message and notification. So, Plugin act like a SWITCH ... Say to Openfire send your notification do FCM or not. Store the message and notification like Openfire do already.  
So only notification!!!**

1. Please provide login credentials of the app so I can explore its functionalities to make myself more clear about the requirements. **you do not need to touch the application .. all work is on:**

-Openfire you will have test environment.

-Firebase, you will use from scratch.

1. To store the message Openfire, Use the option in Openfire KEEP and BOUNCE.
2. **You wrote "The solution for the push notification must work with Android, Amazon, IOS, Win10".For Win10 and Amazon, how does this solution work?I understand in mobile, android and ios, but it is not in win10 and amazon:**

**Amazon :**

<https://www.novoda.com/blog/firebase-on-amazon-devices/>

**Win 10 :**

<http://stackoverflow.com/questions/28767685/how-to-use-firebase-tools-on-windows>

**On Win 10 .. if it’s not working we will make extension in browser like Chrome or firefox.**

**So application will work on any computer.**

**THE WAY I WORK AND PAYMENT.**

I got a lot of work. And lot of bad experience. I am looking for long terms work.

I try to grow up my team. And it’s important that both, you and me or on same page and protect.

* I need people who did the task before. Not people who smart and they will go to school to learn I to do the task, because they made research on web.
* I need people who have face those issues before. So, they know what they need to do, to accomplish the task.
* I need people who work with DRY codding and can give a report of the job done.
* I need people who respect time line. If you say it’s XX days. They respect XX days.

If you do not respect the Delay you are agree with me, it’s because you do not know the job. I do not want to be penalize for that. But I understand sometime can happen.

**My politic is sample:**

I let you the same extra time with no charge or the initial delay of the contract.

Example: You say 3 days’ work. I let you 6 days with no penalty.

You say 1 week work I let you 2 week with no penalty.

After that extra no charge delay, I took a discount of 15% for each delay extra.

**I pay at the end of the work, Only.**

1. You and me make the contract with the description of all task to do for the work.
2. I long to this work? And How much for the work?
3. I accept or not.

When I accept the work.

1. I Add you in a group chat with the person in charge of the project. So, you can ask all your technical question 24 /7.
2. Give you credential of the (demo server). To make the job.
3. When job done, you need to give me a document with all details of your work. Everything you did. It’s not small project it’s important I got some reference on who did what. So, if issue came in future, I know who calling and not lost time to fine who did what.
4. The person in charge of the project will verify your job. When this person. Say everything is fine. I make the payment.

It’s simple. No confusing, clean work, protect you and me. Make sure we can work long time together.

This is the way I work. You not agree with that please do not apply.

Thanks.