**Task 2**

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)

So, we need to send all notification from Openfire to FCM (Firebase)

Situation:

1. User sign in is account.

Whatever Openfire lost xmpp connection with the device of the user.

The Custom plug in, you will be built, should react like that.

(Verify if user still sing in account) So user did not sign out. and send all notification to FCM.

If FCM do not answer is because, no Wi-Fi or LTE data plan or client restart is device) So you put all notification in pending. Until FCM answer or xmpp connection is back. At that moment, you send back to the FCM all notification.

1. User Sign out of is account.

If user sign out, automatically all notification goes in pending.

When user sign in, again you send all notification to FCM.

**CUSTUM PLUG IN (SITUATION 1)**

**User A,** log in is account. **(sign in)**

**When User A**, stop using the application, after 10 min, application will stop working. (**Sleep mode)**

So, it's made the application economic energy. But in Openfire the **USER A** still **(Sign In).** Openfire just lost is XMPP Chanel with the user because application came in sleep mode after 10 min.

In that situation, I need that Firebase receive all notification from Openfire. Because user still **(SIGN IN)** is account. So, result **USER A,** never miss a message or notification. Even if the application of **USER** **A**, is in sleeping mode and do not have a xmpp channel open with Openfire

-APP **(sleeping mode),** It’s mean that **USER A (SIGN In)** account and do not use the app. So, Openfire:

* Lost XMPP channel, with the user but Openfire know that the user is **(SIGN IN)** is account.
* By default, the custom **plug in**, will send all notification to **FIREBASE (FCM),** until a new xmpp channel will open again between Openfire and **USER A** application. Of course, when the user receive is notification from Openfire. If it’s click on the notification or the application. By default, the application will re-open (refresh) a xmpp channel with Openfire.
* So, her until Openfire got a XMPP channel with the app, all message is send in the app. Direct.

**CUSTUM PLUG IN (SITUATION 2)**

**User A,** log in is account. **(sign in)**

**When User A**, stop using the application, after 10 min, application will stop working. (**Sleep mode)**

So, it's made the application economic energy. But in Openfire the **USER A** still **(Sign In).** Openfire just lost is XMPP Chanel with the user because application came in sleep mode after 10 min.

In that situation, I need that Firebase receive all notification from Openfire. Because user still **(SIGN IN)** is account. So, result **USER A,** never miss a message or notification. Even if the application of **USER** **A**, is in sleeping mode and do not have a xmpp channel open with Openfire.

-APP, lost Internet WIFI, or LTE, or No LTE data plan, or re-start his device.

* Her when Firebase detect that the user is offline, Firebase need to send unavailable XMPP packet to Openfire. **Important**, do not make change the status **(Sign in)** in Openfire, I need this status never change on Openfire because of other option of the app.
* After getting such packet Openfire will start storing (**pending**) the packets (**Notification**) that received for that user in data base or file system in pending.
* When **USER** **A** will get back (WIFI, LTE DATA PLAN, or came back online after a re-start) Firebase will send a xmpp available to Openfire, and Openfire will send to **FCM** all notification storing (**pending**)

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

**Yes, will be ready for Wednesday**

2) Version of Openfire

**Last version we have**

3) I need root access in test environment if possible

**Dilawer, can you provide this?**

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

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

**Dilawer it’s ok with you?**

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

**Dilawer it’s ok with you?**

**Important**

* **Communication between FCM and Openfire 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, 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. But message appear like a compilation.**
    - **You have 4 messages.**
    - **You receive 5 invitations**
    - **5 friends accept your invitation.**
    - **5 group chats message**
    - **6 invitations**
    - **6 invitation to a group chat.**
    - **3 friends have deleting you.**

**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.