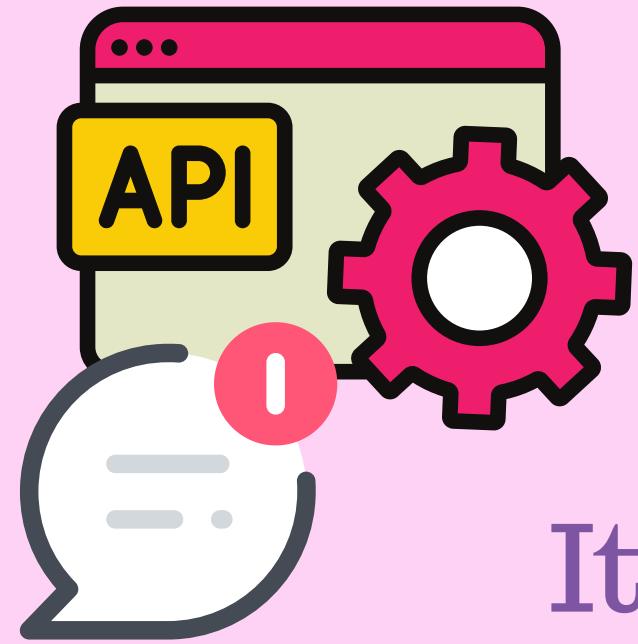


WORK MANAGER

Jetpack Library



WHY WORKMANAGER?

It is an API used for background processing

We can create a notification, numerical operation etc.

We can create a time dependent structure

We can add delay to process and have periodic transaction

Compatible with all android versions

WORKING STRUCTURE



How to use?

implementation "androidx.work:work-runtime-ktx:2.6.0"

```
class MyWorker(  
    applicationContext: Context,  
    workerParams: WorkerParameters  
) : Worker(applicationContext, workerParams) {  
  
    override fun doWork(): Result {  
  
        val sumProcess = 10 + 20  
        Log.e("sumProcess: ", msg: "$sumProcess")  
  
        return Result.success()  
    }  
}
```

```
private lateinit var request: WorkRequest  
  
request = OneTimeWorkRequestBuilder<MyWorker>()  
    .setInitialDelay( duration: 10, TimeUnit.SECONDS)  
    .build()  
  
request = PeriodicWorkRequestBuilder<MyWorker>( repeatInterval: 15, TimeUnit.MINUTES)  
    .setInitialDelay( duration: 10, TimeUnit.SECONDS)  
    .build()  
  
WorkManager.getInstance( context: this@MainActivity)  
    .enqueue(request)
```



EXTRAS!

get
status

```
WorkManager.getInstance( context: this@MainActivity)
    .getWorkInfoByIdLiveData(request.id)
    .observe( owner: this@MainActivity, { workInfo ->
        val status = workInfo.state.name
        Log.e( tag: "Process state", status)
    })
```

add
constraint

```
val workCondition = Constraints.Builder()
    .setRequiredNetworkType(NetworkType.CONNECTED)
    .build()

request = OneTimeWorkRequestBuilder<MyWorker>()
    .setInitialDelay( duration: 10, TimeUnit.SECONDS)
    .setConstraints(workCondition)
    .build()
```

create notification

```
val builder: NotificationCompat.Builder  
  
val notificationManager =  
    applicationContext.getSystemService(Context.NOTIFICATION_SERVICE) as NotificationManager  
  
val intent = Intent(applicationContext, MainActivity::class.java)  
  
val contentToGo = PendingIntent.getActivity(  
    applicationContext,  
    requestCode: 1,  
    intent,  
    PendingIntent.FLAG_UPDATE_CURRENT  
)
```



check
version

```
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {  
    val channelId = "channelId"  
    val channelName = "channelName"  
    val channelIntroduction = "channelIntroduction"  
    val channelPriority = NotificationManager.IMPORTANCE_HIGH  
  
    var channel: NotificationChannel? = notificationManager  
        .getNotificationChannel(channelId)  
  
    if (channel == null) {  
        channel = NotificationChannel(channelId, channelName, channelPriority)  
        channel.description = channelIntroduction  
        notificationManager.createNotificationChannel(channel)  
    }  
  
    builder = NotificationCompat.Builder(applicationContext, channelId)  
    builder.setContentTitle("Title")  
        .setContentText("Content text")  
        .setSmallIcon(R.drawable.icon)  
        .setAutoCancel(true)  
        .setContentIntent(contentToGo)  
  
} else {  
    builder = NotificationCompat.Builder(applicationContext)  
    builder.setContentTitle("Title")  
        .setContentText("Content text")  
        .setSmallIcon(R.drawable.icon)  
        .setAutoCancel(true)  
        .setContentIntent(contentToGo)  
        .priority = Notification.PRIORITY_HIGH  
}  
notificationManager.notify( id: 1, builder.build())
```

Happy
Coding!