

# SIM CARD

**TIME 06** 







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Eldorado

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Eldorado

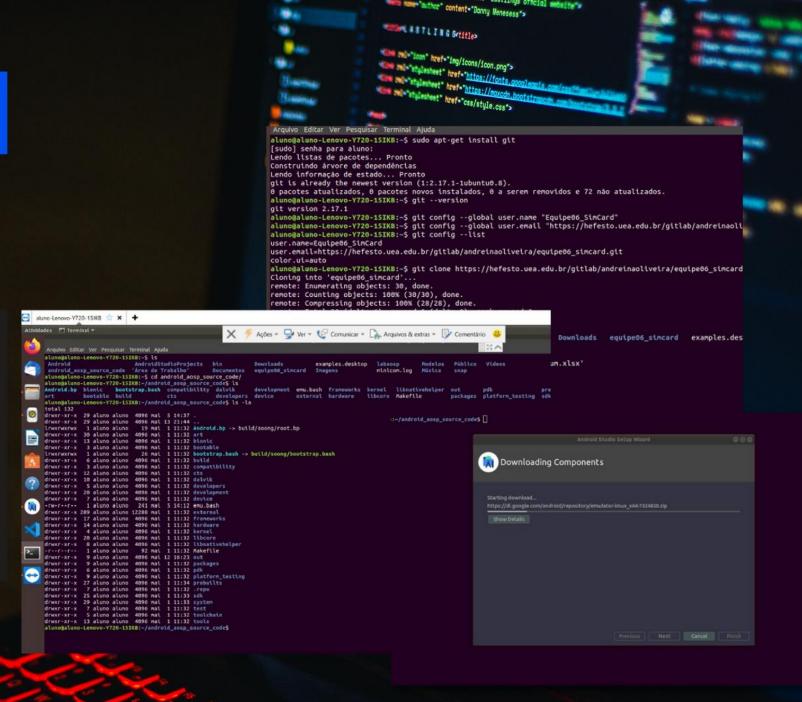


Adicionar no AOSP um recurso que salve um identificador do SIM Card para detectar e notificar se houver troca por outro SIM Card.

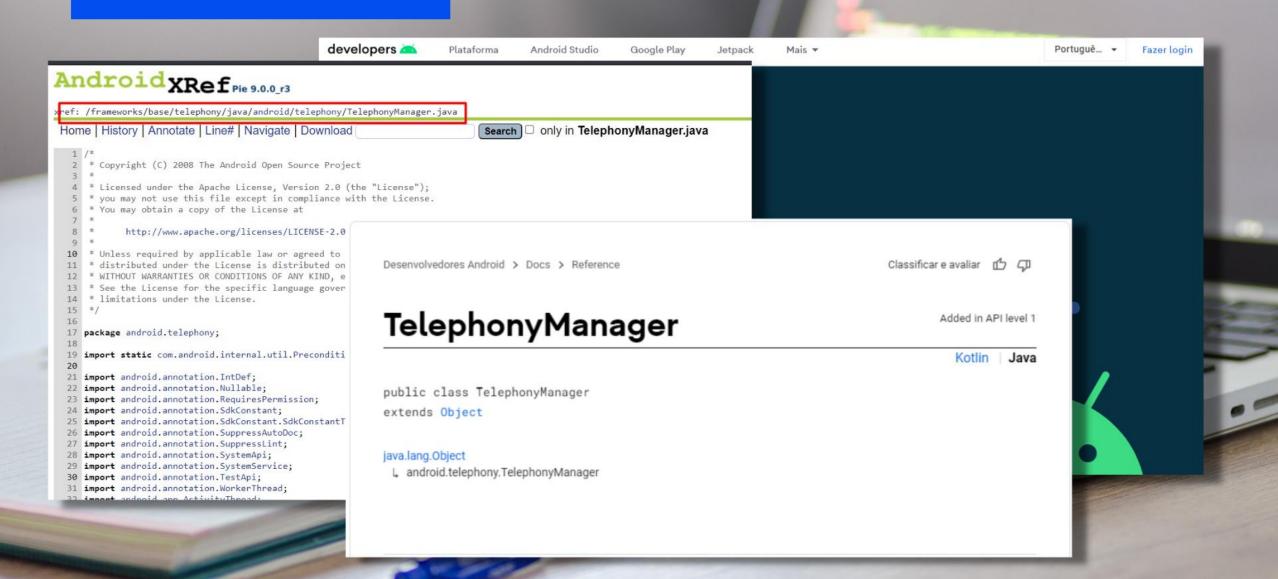
- Identificar ICCID.
- Detectar trocas de SIM Card.
- Notificar trocas de SIM Card.
- Controle de SIM Card à nível AOSP.

#### **AMBIENTE**

Git
aosp\_x86\_64-eng
Visual Studio
Android Studio
Android 9.0 Pie
API Level 28



#### **PESQUISAR API**



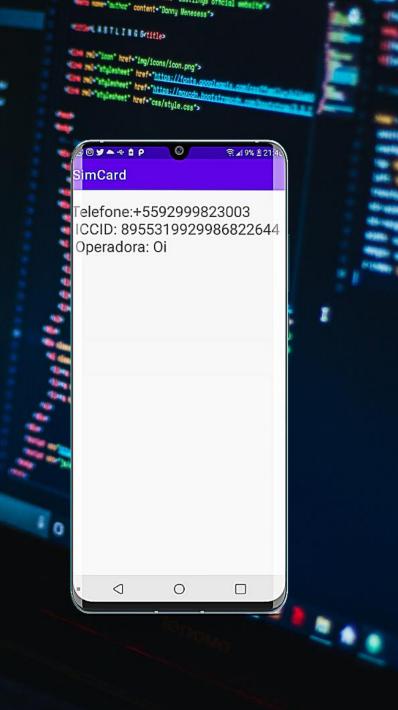
#### **IDENTIFICAR ID SIM CARD**

```
@RequiresPermission(android.Manifest.permission.READ_PHONE_STATE)
public String getSimSerialNumber(int subId) {
    try {
        IPhoneSubInfo info = getSubscriberInfo();
        if (info == null)
            return null;
        return info.getIccSerialNumberForSubscriber(subId, mContext.getOpPackageName());
    } catch (RemoteException ex) {
        return null;
    } catch (NullPointerException ex) {
        // This could happen before phone restarts due to crashing return null;
    }
}
```



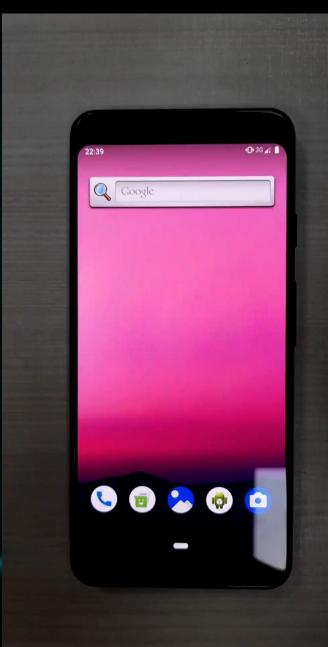
#### **RECUPERAR ID SIM CARD**

```
@SuppressLint( ...value: "MissingPermission")
fun getNumber(): String {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val number = telephonyManager.line1Number
   Log.i(TAG, msg: "Numero: $number")
    return number
@SuppressLint( ...value: "MissingPermission")
fun getIccId(): String {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val iccid = telephonyManager.simSerialNumber
   Log.i(TAG, msg: "ICCID: Siccid")
    return iccid
@SuppressLint( ...value: "MissingPermission")
fun getOperator(): CharSequence? {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val operator = telephonyManager.simCarrierIdName
    Log.i(TAG, msg: "Operadora: Soperator")
    return operator
```



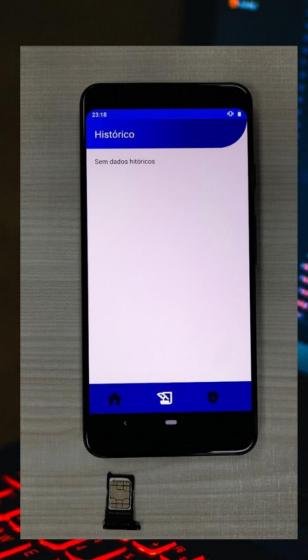
## PERMISSÃO APP

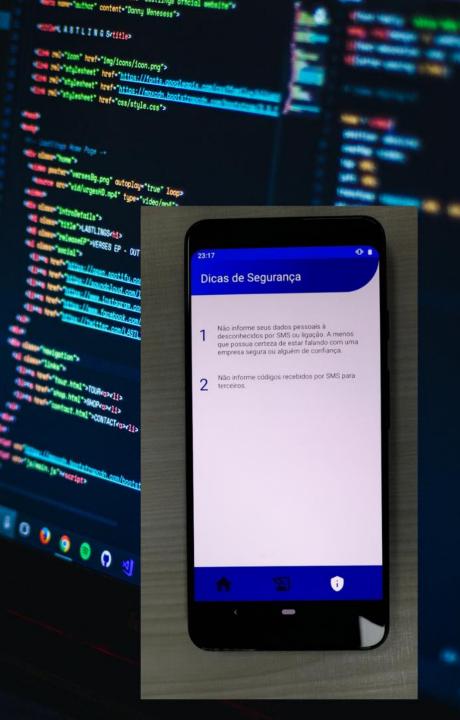




### LAYOUT ACTIVITY'S







### **LAYOUT ACTIVITY'S**

```
override fun onClick(v: View) {
    when (v.id) {
        R.id.btHome3 -> {
            val intent = Intent(applicationContext, com.example.simcard.MainActivity::class.java)
            startActivity(intent)
        }
        R.id.btHistory3 -> {
            val intent = Intent(applicationContext, com.example.simcard.historico::class.java)
            startActivity(intent)
        }
    }
}
```



#### **DETECTAR TROCAS**

#### developers

#### See also:

SIM\_STATE\_UNKNOWN

SIM\_STATE\_ABSENT

SIM\_STATE\_PIN\_REQUIRED

SIM\_STATE\_PUK\_REQUIRED

SIM\_STATE\_NETWORK\_LOCKED

SIM\_STATE\_READY

SIM\_STATE\_NOT\_READY

SIM\_STATE\_PERM\_DISABLED

SIM\_STATE\_CARD\_IO\_ERROR

SIM\_STATE\_CARD\_RESTRICTED

```
TelephonyManager.java
2493 public S
2494 int
```

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"versesg.png" autoplays "true" loops

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#### ARMAZENAR DADOS

```
TelephonyManager.java
           public File checkPathDirectory() {
2513
                   File path = new File(mContext.getFilesDir(), "LogTxt");
                   if (!path.exists()){
2515
                       path.mkdirs();
2516
2517
                   Rlog.v(TAGT06, "Arquivo criado " + path);
2518
                   return path;
2520
2521
           public void WiriteTxt(){
2523
               try{
                   File txtFile = new File(checkPathDirectory(), "LogSincard");
2524
                   FileWriter writer = new FileWriter(txtFile, true);
2525
                   PrintWriter printWriter = new PrintWriter(writer);
2526
2527
                   String number txt = getLinelNumber();
2528
                   String iccid txt = getSimSerialNumber();
2529
2530
                   CharSequence operator txt = getSimCarrierIdName();
                   printWriter.append("Operadora: " + operator txt + "\nNúmero: " + number txt + "\nICCID: " + iccid txt);
                   printWriter.flush();
2533
                   printWriter.close();
               } catch (IOException e) {
                   throw new RuntimeException(e);
```

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Com re. "icon" href "ing/icons/icon.png">

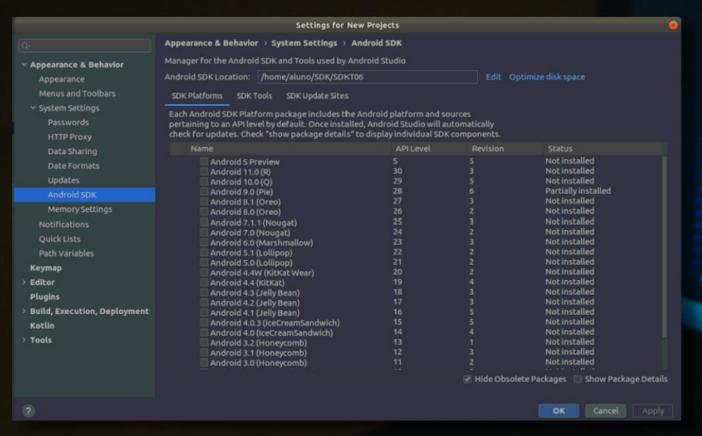
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com re. "tglesheet" href "httos://murch.b

com re. "tglesheet" href "css/style.css">

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#### **SDK ANDROID STUDIO**





#### **APP SERVICE**

```
override fun onStartCommand(intent: Intent?, flags: Int, startId: Int): Int {
    showLog("OnStartCommand")
   val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
                                                                                                SES EP - OUT NOW ON ITUNES GOODS SPOT
    val loop = true
    val runnable = Runnable {
        while (loop){
            ar simState = telephonyManager.observerData()
            createNotificationChannel()
            if (simState == "Inserted"){
                sendNotificationInsert()
            if (simState == "Removed"){
                sendNotificationRemove()
                                                                                              ONEMDE
    val thread = Thread(runnable)
    thread.start()
   return super.onStartCommand(intent, flags, startId)
```

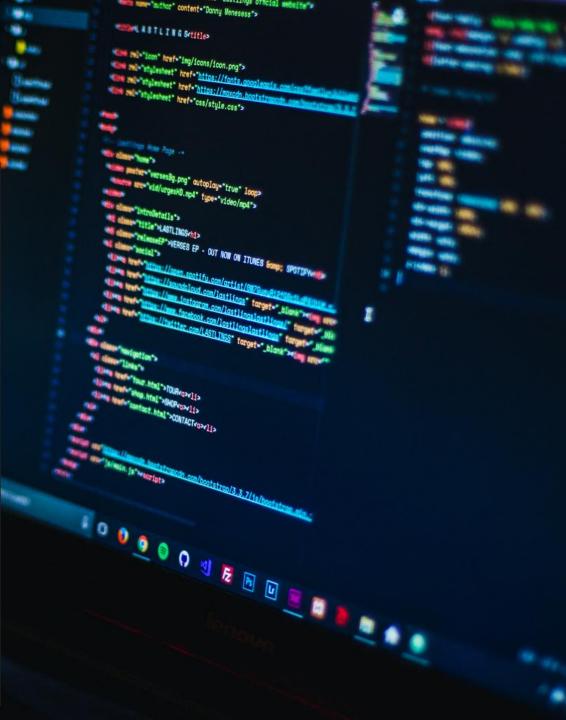
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Come re: "stglesheet" href='httos://fonts.or
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come re: "stglesheet" href="css/stgle.css">

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# **NOTIFICAÇÃO**

```
private fun sendNotificationInsert() {
    val intent = Intent( packageContext this, MainActivity::class.java).apply { this Intent
    val pendingIntent: PendingIntent = PendingIntent.getActivity( context this, requestCode: 8, intent, flags: 8)
    val builder = NotificationCompat.Builder( context this, CHANNEL_ID)
        .setSmallIcon(R.drawable.ic_notification)
        .setContentTitle("SIM Card Identificado")
        .setContentIntent(pendingIntent)
        .setPriority(NotificationCompat.PRIORITY_DEFAULT)
    with(NotificationManagerCompat.from( context this)) {    this: NotificationManagerCompat
        notify(notificationId, builder.build())
private fun sendNotificationRemove() {
    val intent = Intent( packageContext this, MainActivity::class.java).apply { this Intent
    val pendingIntent: PendingIntent = PendingIntent.getActivity( context this, requestCode: 8, intent, flags 8)
    val builder = NotificationCompat.Builder( context this, CHANNEL_ID)
        .setSmallIcon(R.drawable.ic_notification)
        .setContentTitle("SIM Card Removido")
        .setContentIntent(pendingIntent)
        .setPriority(NotificationCompat.PRIORITY_DEFAULT)
    with(NotificationHanagerCompat.from( context: this)) {    this NotificationManagerCompat
        notify(notificationId, builder.build())
```



#### **LER DADOS**

#### **Telephony Manager**

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```
TelephonyManager.java
           public String readFile() {
2539
               File fileEvents = new File(checkPathDirectory()+"/LogSincard");
2540
               StringBuilder text = new StringBuilder();
2541
2542
               try {
                   BufferedReader br = new BufferedReader(new FileReader(fileEvents));
2543
                   String line = "";
2544
                   while ( (line = br.readLine()) != null){
2545
                       text.append(line);
2546
                       text.append('\n');
2547
2548
                   br.close();
2549
2550
               } catch (IOException e) {
                   throw new RuntimeException(e);
2551
2552
               String result = text.toString();
2553
               return result;
2554
```

try{

}catch (e: Exception){

```
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                                                              "stylesheet" href-"https://fonts.go
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                                                             of other "title" MASTLINGS/his
                                                             COME TO MODEL TO VERSES EP - OUT NOW ON ITUNES SORE SPOTTEYWOOD
                                                                                               APP: Histórico
val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
     historico.text = telephonyManager.readFile()
     historico.text = ("Sem dados históricos")
```

"content="Danny Menesess">

# **APP SIM CARD**







## **REFERÊNCIAS**



#### **PESQUISAS**

- <u>Telephony Manager</u>
- App Background
- <u>Notificações</u>
- Compilar AOSP no Pixel 3



#### **GIT LAB LINKS**

- <u>Repositório</u>
- Backlog e Sprints



#### **APP SIM CARD**

- SDK
- AOSP
- APK









# TIME 06

# OBRIGADO!