



PROVA DE CONCEITO

TIME 06 - SIM CARD



TIME 06

	ANDREINA OLIVEIRA Scrum Master		ANDRÉ RONDI Developer		EDIVALDO JUNIOR Developer
	STHEFANYE OLIVEIRA Developer		WESLEN COSTA Developer	DESISTENTES: Marcos Augusto de Souza Pinto	
				DESISTENTES: Paulo Sérgio Santana	

PRODUCT OWNER'S



ÁUREA MELO

UEA

EDGARD SILVA

UEA

OSCAR NETO

Eldorado

FERANDO ITO

Eldorado

Objetivo

Critérios de Aceitação

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

- Identificar SIM Card.
- Notificar trocas de SIM Card.
- Controle de SIM Card.

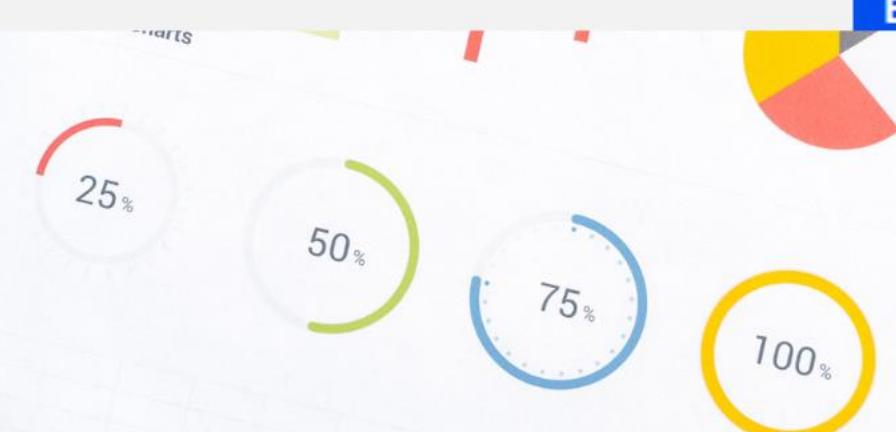
TIMELINE



PRÉ-SPRINT: BACKLOG

PRODUCT BACKLOG

Sprint	ID	Tarefa	Prioridad
0	#01	Pesquisas Desk (Imersão - DT)	ENTREGUE
0	#02	Personas (Imersão - DT)	ENTREGUE
0	#03	Entrevista (Imersão - DT)	ENTREGUE
0	#04	Brainstorming (Ideação - DT)	ENTREGUE
0	#05	Dot Voting (Ideação - DT)	ENTREGUE
0	#06	Protótipo (Prototipação - DT)	ENTREGUE



PRÉ-SPRINT: ESCOPO

ESTIMATIVA

- 48 dias.
- Entrega: 25/06/2021

JUSTIFICATIVA

Há inúmeras armadilhas as quais o SIM Card está exposto. É necessário expô-las ao usuário para prevenir danos.

FINALIDADE

Prover segurança do SIM Card através de orientações ao usuário quanto ao uso de pessoas/apps externos aos dados do SIM Card além de realizar o controle dos SIM's usados no aparelho telefônico.

EXCLUSÃO

- Não irá monitorar os possíveis riscos. Apenas orientar.

RESTRIÇÕES

- Prazo curto.
- Baixo conhecimento em AOSP
- Privações sociais devido à pandemia.

TIMELINE



SPRINT I: BACKLOG

PRODUCT BACKLOG

Sprint	ID	Tarefa	Prioridad
1	#08	Criação da identidade visual do time	ENTREGUE
1	#09	Criação do Repositório	ENTREGUE
1	#10	Migrar do Trello para o Board do GitLab	ENTREGUE
1	#11	Refazer Product Backlog	ENTREGUE
1	#12	Instalação do Git Bash	ENTREGUE
1	#13	Preparar ambiente AOSP	ENTREGUE
1	#14	Instalação do Android Studio	ENTREGUE
1	#15	Localizar a camada da arquitetura AOSP que está localizada o SIM Card ID	ENTREGUE
1	#16	Pesquisar APIs que já façam tratativa com os dados do SIM Card	ENTREGUE
1	#17	Recuperar o ID de um SIM Card	ENTREGUE

E Equipe06_SimCard

Andreina de Souza Oliveira > Equipe06_SimCard > Details

Project

Details

Activity

Releases

Repository

Issues 57

Merge Requests 0

CI / CD

Operations

Packages & Registries

Analytics

Wiki

Snippets

Members

Settings

<< Collapse sidebar

SPRINT I: REPOSITÓRIO

Equipe06_SimCard

Project ID: 293



Star 0

Fork 0

14 Commits

1 Branch

0 Tags

37.7 MB Files

37.7 MB Storage

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

 Auto DevOps
It will automatically build, test, and deploy your application based on a predefined CI/CD configuration.
Learn more in the Auto DevOps documentation
[Enable in settings](#)

master

equipe06_simcard /



History

Find file

Web IDE



Clone



atualizando projeto

Equipe06_SimCard authored 21 hours ago

b836d0a6

[README](#)[Add LICENSE](#)[Add CHANGELOG](#)[Add CONTRIBUTING](#)[Add Kubernetes cluster](#)[Set up CI/CD](#)

Name

Last commit

Last update

Pré-Sprint

Create: pasta Pré-Sprint junto aos documentos emitidos dura...

1 week ago

SimCard

atualizando projeto

21 hours ago

Sprint I

create: Pasta para o Projeto SIM Card

1 day ago

README.md

Atualizando README

1 day ago

E Equipe06_SimCard

Andreina Oliveira > Equipe06_SimCard > Issue Boards

Project

Repository

Issues

57

List

Boards

Labels

Service Desk

Milestones

Merge Requests

0

CI / CD

Operations

Packages & Registries

Analytics

Wiki

Snippets

Members

Settings

<< Collapse sidebar

SPRINT I: GERENCIAMENTO

Results...

Open

47

+

Sprint Retrospective V

#75

Sprint Retrospective IV

#74

Sprint Retrospective III

#73

Sprint Retrospective II

#72

Sprint Planning V - Defesa

#69

Sprint Planning IV - Defesa

#68

Sprint Planning III - Defesa

#67

Daily Report

0

Pre-Sprint

0

Sprint I Backlog

5

Closed

23

Pesquisar APIs que já façam tratativa com os dados do SIM Card

Sprint I Backlog

#17 Yesterday

Localizar a camada da arquitetura AOSP que está localizada o SIM Card ID

Sprint I Backlog

#15 Yesterday

Instalação do Android Studio

Sprint I Backlog

#80 May 12

Preparar ambiente AOSP

Sprint I Backlog

#79 May 12

Instalação do Git Bash

Sprint I Backlog

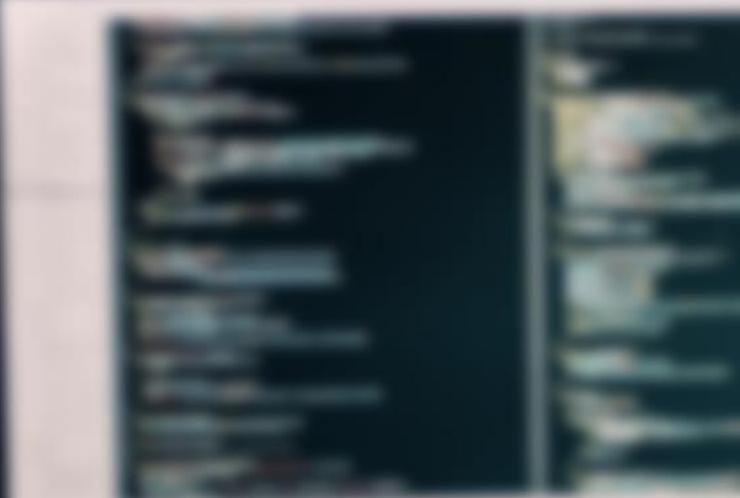
#78 May 12

Add list

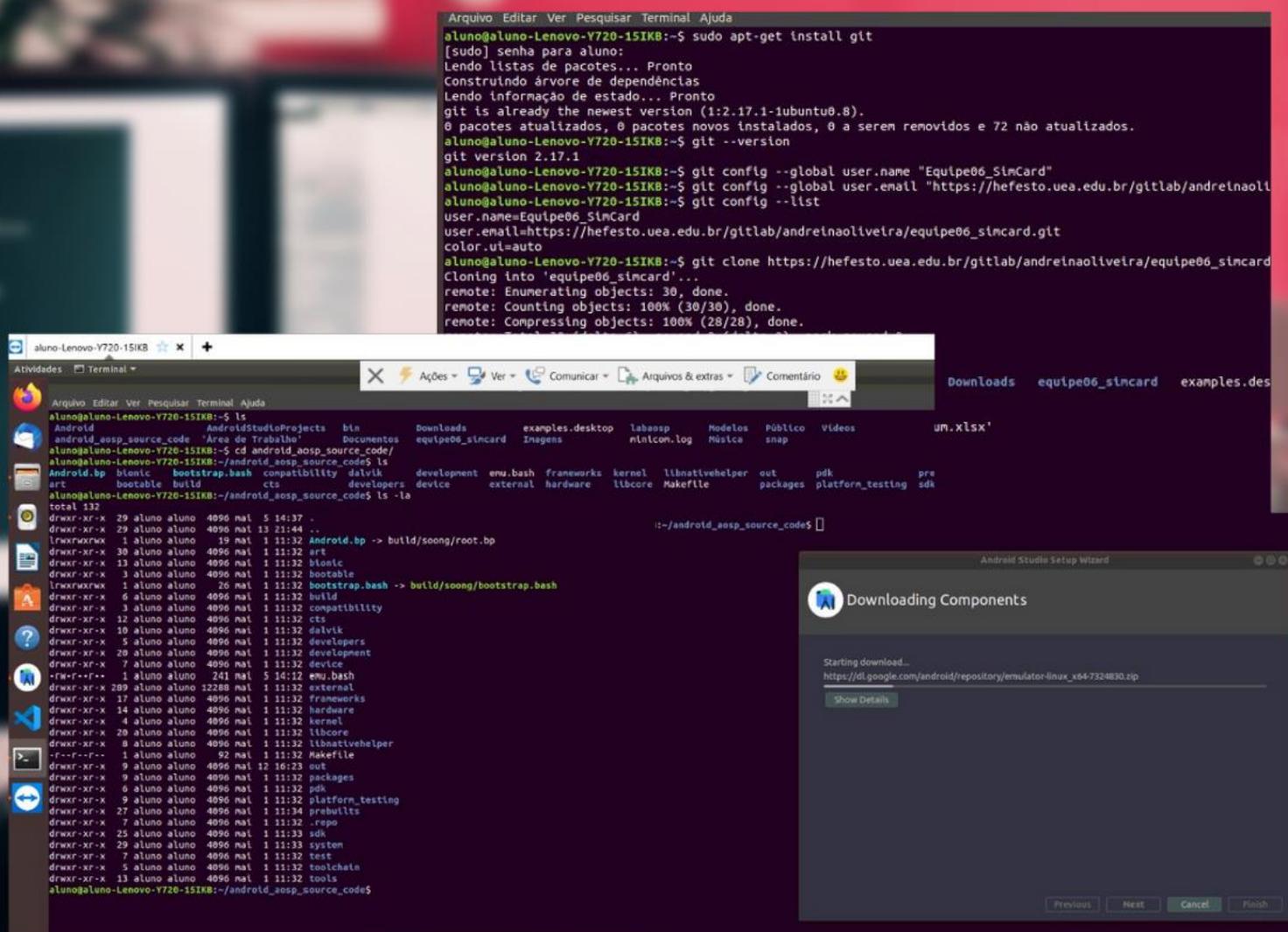
Add issues

X

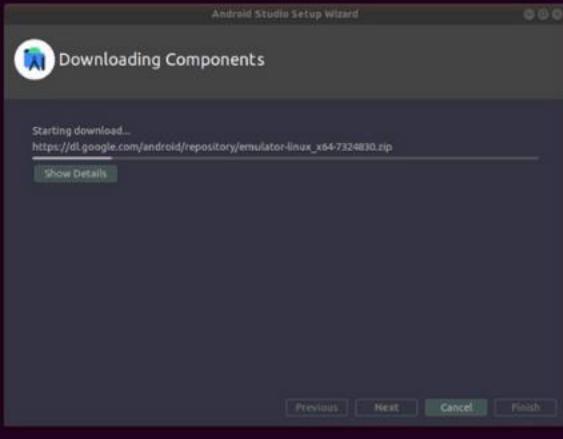
SPRINT I: AMBIENTE



aosp_x86_64-eng
Git
Android Studio
Andoird 9.0 Pie
API Level 28



```
Arquivo Editar Ver Pesquisar Terminal Ajuda
aluno@aluno-Lenovo-Y720-15IKB:~$ sudo apt-get install git
[sudo] senha para aluno:
Lendo listas de pacotes... Pronto
Construindo árvore de dependências
Lendo informação de estado... Pronto
git já é a versão mais recente (1:2.17.1-1ubuntu0.8).
0 pacotes atualizados, 0 pacotes novos instalados, 0 a serem removidos e 72 não atualizados.
aluno@aluno-Lenovo-Y720-15IKB:~$ git --version
git version 2.17.1
aluno@aluno-Lenovo-Y720-15IKB:~$ git config --global user.name "Equipe06_SimCard"
aluno@aluno-Lenovo-Y720-15IKB:~$ git config --global user.email "https://hefesto.uea.edu.br/gitlab/andreinaoliveira"
aluno@aluno-Lenovo-Y720-15IKB:~$ git config --list
user.name=Equipe06_SimCard
user.email=https://hefesto.uea.edu.br/gitlab/andreinaoliveira/equipe06_simcard.git
color.ui=auto
aluno@aluno-Lenovo-Y720-15IKB:~$ git clone https://hefesto.uea.edu.br/gitlab/andreinaoliveira/equipe06_simcard
Cloning into 'equipe06_simcard'...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (28/28), done.
aluno@aluno-Lenovo-Y720-15IKB:~$ ls
AndroidStudioProjects bin Downloads documentos equipe06_simcard Imagens labosp mnlcom.log Modelos Publico Videos um.xlsx'
aluno@aluno-Lenovo-Y720-15IKB:~$ cd android_aosp_source_code/
aluno@aluno-Lenovo-Y720-15IKB:~/android_aosp_source_code$ ls
Android.bp build bootstrap.bash compatibility dalvik development emu.bash frameworks kernel libnativehelper out pdk packages platform_testing sdk
art bootable build cts developers device external hardware libcore Makefile packages platform_testing sdk
dalvik dev frameworks kernel libnativehelper out pdk packages platform_testing sdk
total 132
drwxr-xr-x 29 aluno aluno 4096 mai  5 14:37 .
drwxr-xr-x 29 aluno aluno 4096 mai 13 21:44 ..
lwxrwxrwx  1 aluno aluno  19 mai  1 11:32 Android.bp -> build/soong/root.bp
drwxr-xr-x 30 aluno aluno 4096 mai  1 11:32 art
drwxr-xr-x 13 aluno aluno 4096 mai  1 11:32 bionic
drwxrwxrwx  1 aluno aluno 4096 mai  1 11:32 build
drwxr-xr-x  6 aluno aluno 4096 mai  1 11:32 bootstrap.bash -> build/soong/bootstrap.bash
drwxr-xr-x  3 aluno aluno 4096 mai  1 11:32 build
drwxr-xr-x 12 aluno aluno 4096 mai  1 11:32 compatibility
drwxr-xr-x 10 aluno aluno 4096 mai  1 11:32 cts
drwxr-xr-x  5 aluno aluno 4096 mai  1 11:32 dalvik
drwxr-xr-x 20 aluno aluno 4096 mai  1 11:32 developers
drwxr-xr-x  7 aluno aluno 4096 mai  1 11:32 development
drwxr-xr-x  1 aluno aluno 241 mai  5 14:12 emu.bash
drwxr-xr-x 289 aluno aluno 12288 mai  1 11:32 external
drwxr-xr-x 17 aluno aluno 4096 mai  1 11:32 frameworks
drwxr-xr-x 14 aluno aluno 4096 mai  1 11:32 hardware
drwxr-xr-x 10 aluno aluno 4096 mai  1 11:32 kernel
drwxr-xr-x 29 aluno aluno 4096 mai  1 11:32 libart
drwxr-xr-x  8 aluno aluno 4096 mai  1 11:32 libnativehelper
drwxr-xr-x  1 aluno aluno  92 mai  1 11:32 Makefile
drwxr-xr-x  9 aluno aluno 4096 mai  1 11:32 packages
drwxr-xr-x  6 aluno aluno 4096 mai  1 11:32 pdk
drwxr-xr-x  9 aluno aluno 4096 mai  1 11:32 platform_testing
drwxr-xr-x 27 aluno aluno 4096 mai  1 11:34 prebuilt
drwxr-xr-x  7 aluno aluno 4096 mai  1 11:32 .repo
drwxr-xr-x 25 aluno aluno 4096 mai  1 11:33 sdk
drwxr-xr-x 20 aluno aluno 4096 mai  1 11:32 system
drwxr-xr-x  7 aluno aluno 4096 mai  1 11:32 test
drwxr-xr-x  5 aluno aluno 4096 mai  1 11:32 toolchains
drwxr-xr-x 13 aluno aluno 4096 mai  1 11:32 tools
aluno@aluno-Lenovo-Y720-15IKB:~/android_aosp_source_code$
```



Android Studio Setup Wizard

Downloading Components

Starting download...
https://dl.google.com/android/repository/emulator-linus_x64-7324830.zip

Show Details

Previous Next Cancel Finish

SPRINT I: PESQUISAR API

developers  Plataforma Android Studio Google Play Jetpack Mais ▾ Portuguê... Fazer login

Android XRef Pie 9.0.0_r3

xref: /frameworks/base/telephony/java/android/telephony/TelephonyManager.java

Home | History | Annotate | Line# | Navigate | Download only in TelephonyManager.java

```
1 /*
2  * Copyright (C) 2008 The Android Open Source Project
3  *
4  * Licensed under the Apache License, Version 2.0 (the "License");
5  * you may not use this file except in compliance with the License.
6  * You may obtain a copy of the License at
7  *
8  *     http://www.apache.org/licenses/LICENSE-2.0
9  *
10 * Unless required by applicable law or agreed to
11 * distributed under the License is distributed on
12 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, e
13 * See the License for the specific language gover
14 * limitations under the License.
15 */
16
17 package android.telephony;
18
19 import static com.android.internal.util.Preconditi
20
21 import android.annotation.IntDef;
22 import android.annotation.Nullable;
23 import android.annotation.RequiresPermission;
24 import android.annotation.SdkConstant;
25 import android.annotation.SdkConstant.SdkConstantT
26 import android.annotation.SuppressAutoDoc;
27 import android.annotation.SuppressLint;
28 import android.annotation.SystemApi;
29 import android.annotation.SystemService;
30 import android.annotation.TestApi;
31 import android.annotation.WorkerThread;
32 import android.app.ActivityThread;
```

Desenvolvedores Android > Docs > Reference Classificar e avaliar  

TelephonyManager

Added in API level 1 Kotlin | Java

```
public class TelephonyManager
extends Object
```

java.lang.Object

↳ android.telephony.TelephonyManager



SPRINT I: GET ID

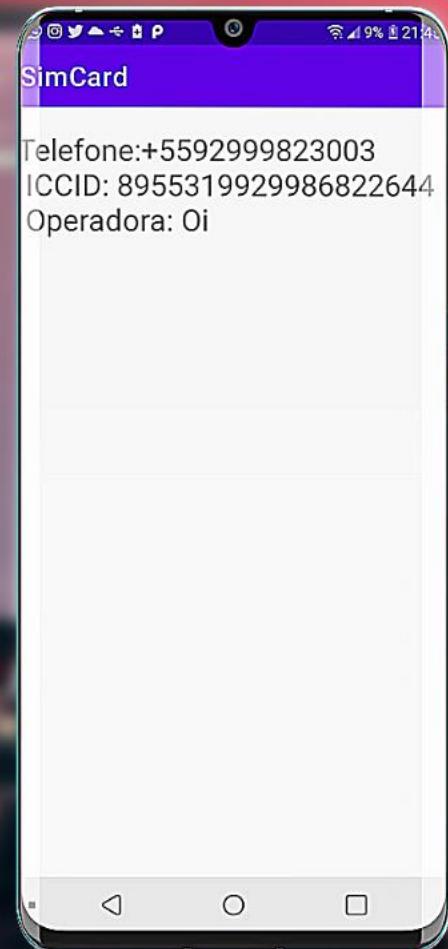
```
@SuppressLint("MissingPermission")
fun getNumber(): String {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val number = telephonyManager.line1Number
    Log.i(TAG, msg: "Número: $number")
    return number
}

@SuppressLint("MissingPermission")
fun getIccId(): String {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val iccid = telephonyManager.simSerialNumber
    Log.i(TAG, msg: "ICCID: $iccid")

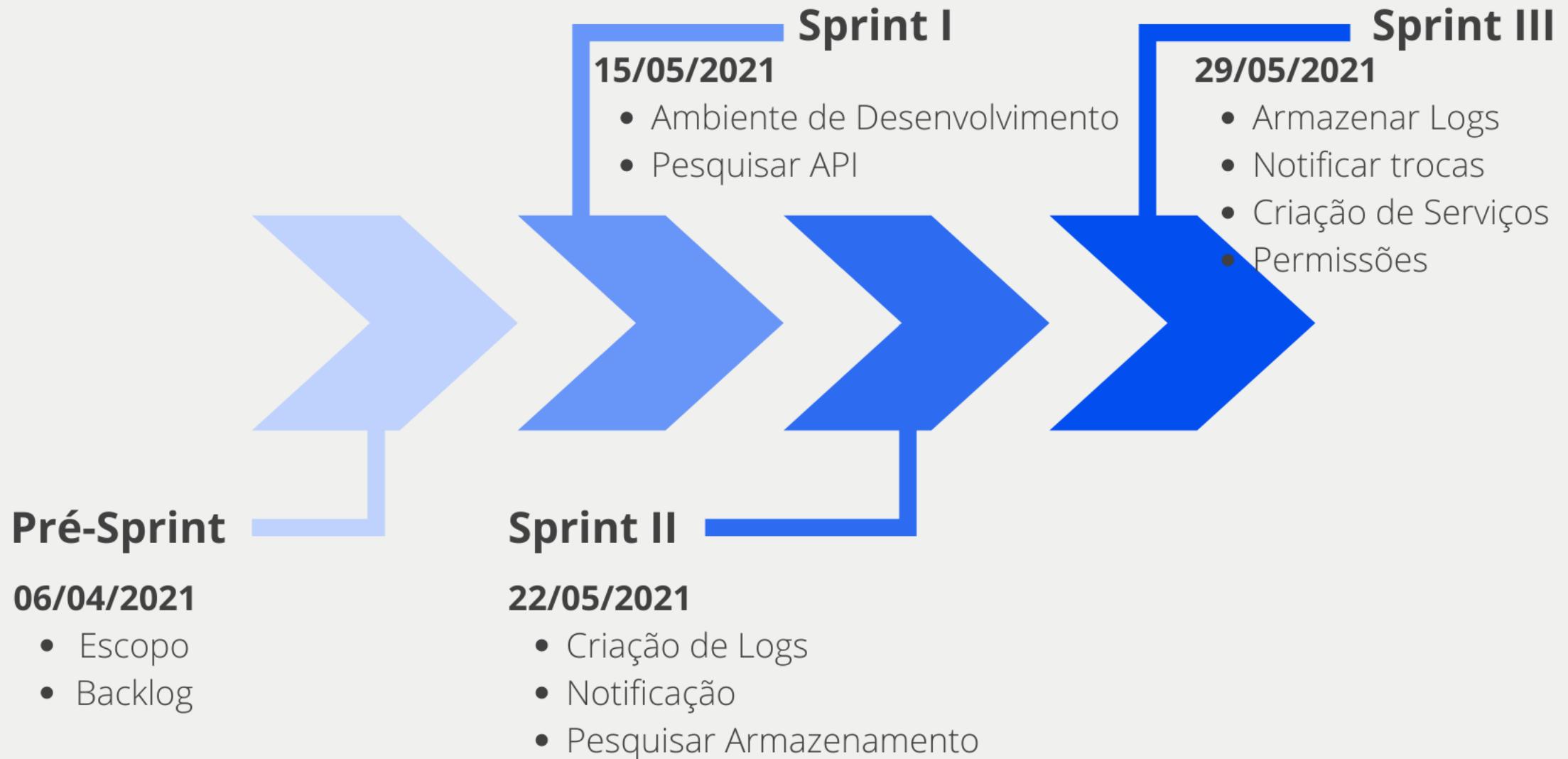
    return iccid
}

@SuppressLint("MissingPermission")
fun getOperator(): CharSequence? {
    val telephonyManager = this.getSystemService(Context.TELEPHONY_SERVICE) as TelephonyManager
    val operator = telephonyManager.simCarrierIdName
    Log.i(TAG, msg: "Operadora: $operator")

    return operator
}
```



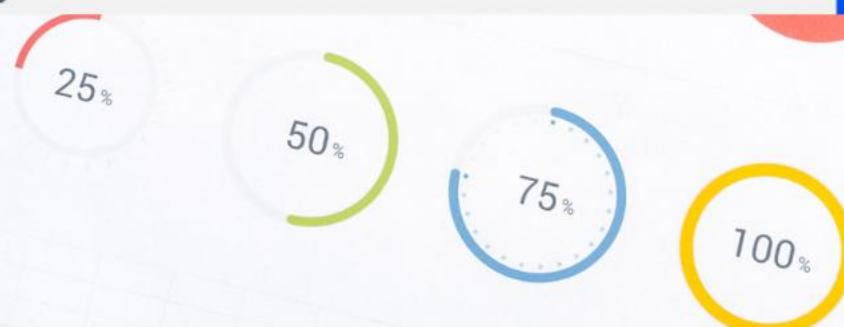
TIMELINE



SPRINT II: BACKLOG

PRODUCT BACKLOG

Sprint	ID	Tarefa	Prioridad
2	#18	Tela Home - Implementar Layout Activity	ENTREGUE
2	#19	Tela Home - Implementar Main Activity	ENTREGUE
2	#26	Estudar o Sistema de Notificação	ENTREGUE
2	#27	Debug da Aplicação	ENTREGUE
2	#28	Pesquisar o armazenamento no Kernel	ENTREGUE
2	#29	Implementar Logs da aplicação	ENTREGUE
2	#30	Implementar Sistema de Notificação	ENTREGUE

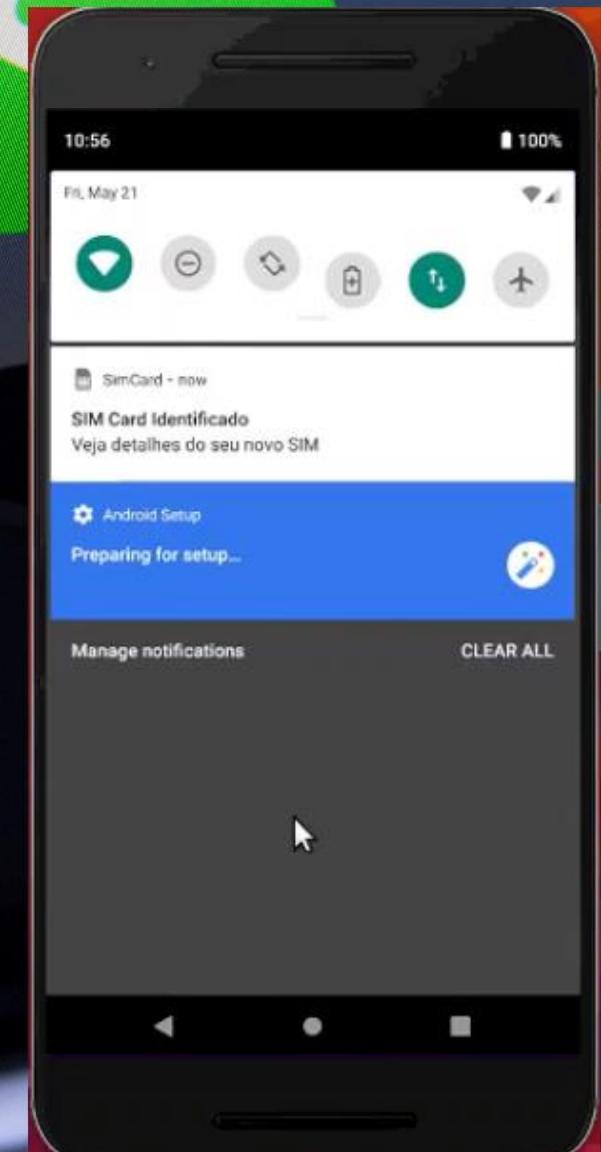


SPRINT II: LOG

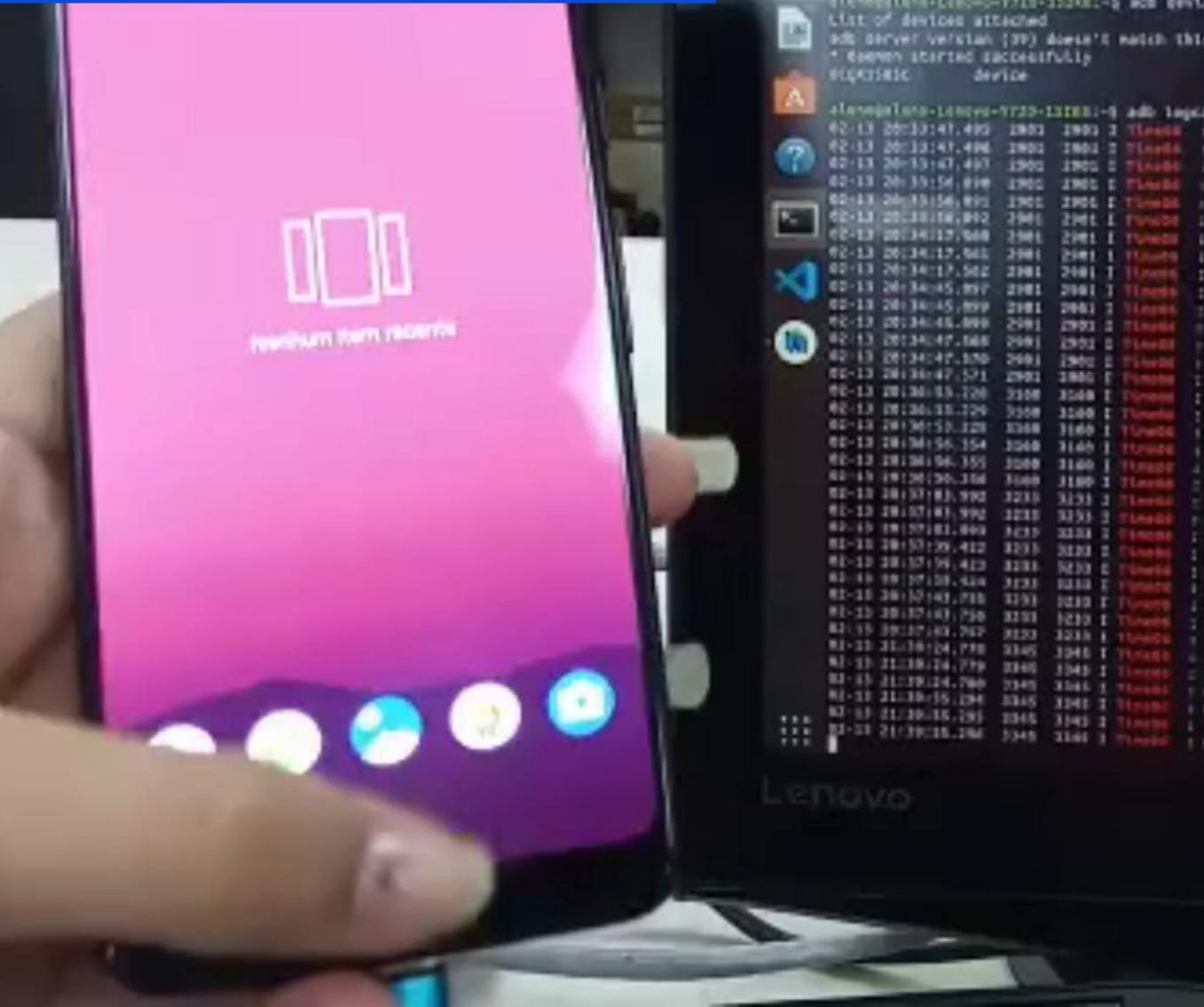
```
02-13 21:42:17.089 3818 3818 I Time06 : Numero: +5592999823003
02-13 21:42:17.090 3818 3818 I Time06 : ICCID: 8955319929986822644
02-13 21:42:17.091 3818 3818 I Time06 : Operadora: Oi
02-13 21:42:24.522 3818 3818 I Time06 : Numero: +5592999823003
02-13 21:42:24.523 3818 3818 I Time06 : ICCID: 8955319929986822644
02-13 21:42:24.525 3818 3818 I Time06 : Operadora: Oi
02-13 21:42:58.970 3818 3818 I Time06 : Numero: null
02-13 21:42:58.972 3818 3818 I Time06 : ICCID: null
02-13 21:42:58.973 3818 3818 I Time06 : Operadora: null
02-13 21:43:04.372 3818 3818 I Time06 : Numero: null
02-13 21:43:04.373 3818 3818 I Time06 : ICCID: null
02-13 21:43:04.374 3818 3818 I Time06 : Operadora: null
aluno@aluno-Lenovo-Y720-15IKB:~$
```

SPRINT II: NOTIFICAÇÃO

```
private fun sendNotificationInsert() {  
    val intent = Intent(packageContext, MainActivity::class.java).apply { this: Intent  
        flags = Intent.FLAG_ACTIVITY_NEW_TASK or Intent.FLAG_ACTIVITY_CLEAR_TASK  
    }  
    val pendingIntent: PendingIntent = PendingIntent.getActivity(context, requestCode: 0, intent, flags: 0)  
  
    val builder = NotificationCompat.Builder(context, CHANNEL_ID)  
        .setSmallIcon(R.drawable.ic_notification)  
        .setContentTitle("SIM Card Identificado")  
        .setContentText("Veja detalhes do seu novo SIM")  
        .setContentIntent(pendingIntent)  
        .setPriority(NotificationCompat.PRIORITY_DEFAULT)  
  
    with(NotificationManagerCompat.from(context)) { this: NotificationManagerCompat  
        notify(notificationId, builder.build())  
    }  
}
```



SPRINT II: LOG E NOTIFICAÇÃO



```
Arquivo Editar Ver Pesquisar Terminal Ajuda
Android androidstudioProjects Ma Downloads sample_desktop Sobre o app Equipe do Android Imagens
sdks/2019_03_r1_source_code 'Área de Trabalho' documentos equipos_eclipsed
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard/
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard/.git status
No name master
Your branch is up-to-date with 'origin/master'.

nothing to commit, working tree clean
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 'Sprint II' Time: 86 - Gerenciamento de serviços
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard cd ..
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard ls ob devices
List of devices attached
adb server version (39) doesn't match this client (40); killing...
* daemon started successfully
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard device
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard ls Timed
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2981 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2982 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2983 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2984 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2985 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2986 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2987 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2988 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2989 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2990 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2991 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2992 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2993 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2994 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2995 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2996 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2997 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2998 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 2999 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3000 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3001 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3002 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3003 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3004 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3005 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3006 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3007 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3008 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3009 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3010 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3011 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3012 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3013 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3014 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3015 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3016 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3017 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3018 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3019 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3020 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3021 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3022 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3023 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3024 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3025 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3026 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3027 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3028 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3029 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3030 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3031 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3032 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3033 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3034 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3035 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3036 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3037 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3038 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3039 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3040 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3041 I Timed : Numeros: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3042 I Timed : Iccidle: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3043 I Timed : Operador: null
sdks/2019_03_r1_source_code -> /opt/pedro/Android/standard 3044 I Timed : Numeros: null
```

TIMELINE



SPRINT III: BACKLOG

PRODUCT BACKLOG

Sprint	ID	Tarefa	Prioridad
3	#31	Preparação do ambiente (2º máquina)	ENTREGUE
3	#32	Desenvolver Log de Inserção e Remoção	ENTREGUE
3	#33	Criar aquivo txt para receber dados de logs	ENTREGUE
3	#35	Notificar Troca de SIM Card	ENTREGUE
3	#37	App em background	ENTREGUE
3	#41	Solicitar Permissões para o APP	ENTREGUE



SPRINT III: ARMAZENAMENTO

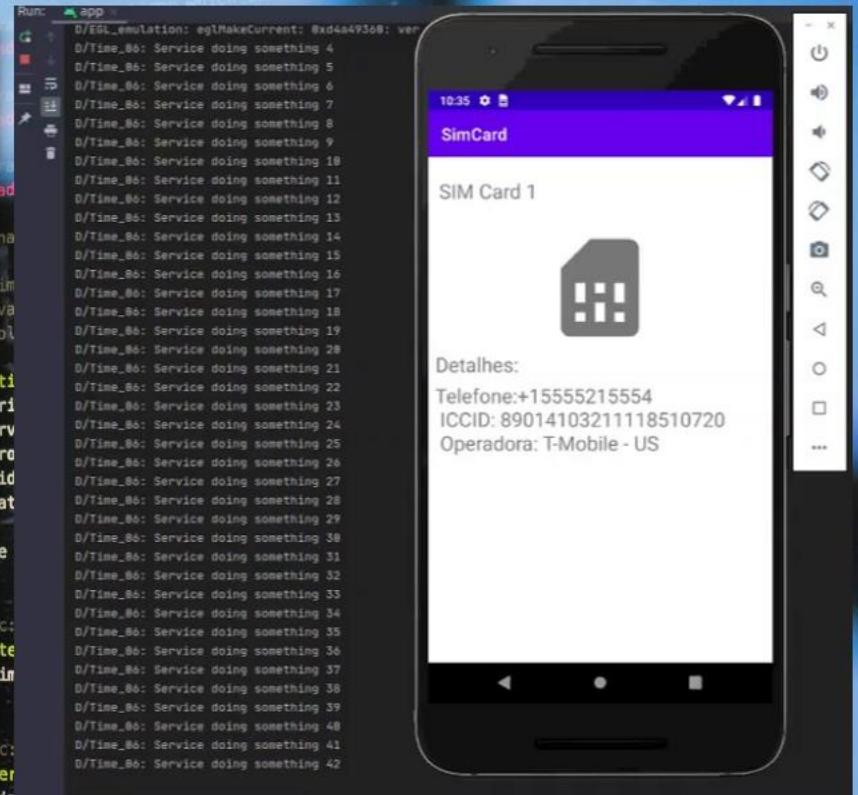
```
// check txt
private fun checkDirectory(): File {
    val path = this.applicationContext.filesDir.absolutePath
    val logTxtDirectory = File(path, child: "LogTxt")
    if (!logTxtDirectory.isDirectory) logTxtDirectory.mkdirs()
    Log.i( tag: "Diretorio", path)
    return logTxtDirectory
}

// write txt
private fun txtGenerator(){
    val fileTxt = File(checkDirectory(), child: "logSimCard.txt")
    fileTxt.appendText( text: getIccId() +  getNumber() + getOperator() )
    val inputAsString = FileInputStream(fileTxt).bufferedReader().use { it.readText() }
    Log.i( tag: "Retorno", inputAsString)
}
```

The
Doors

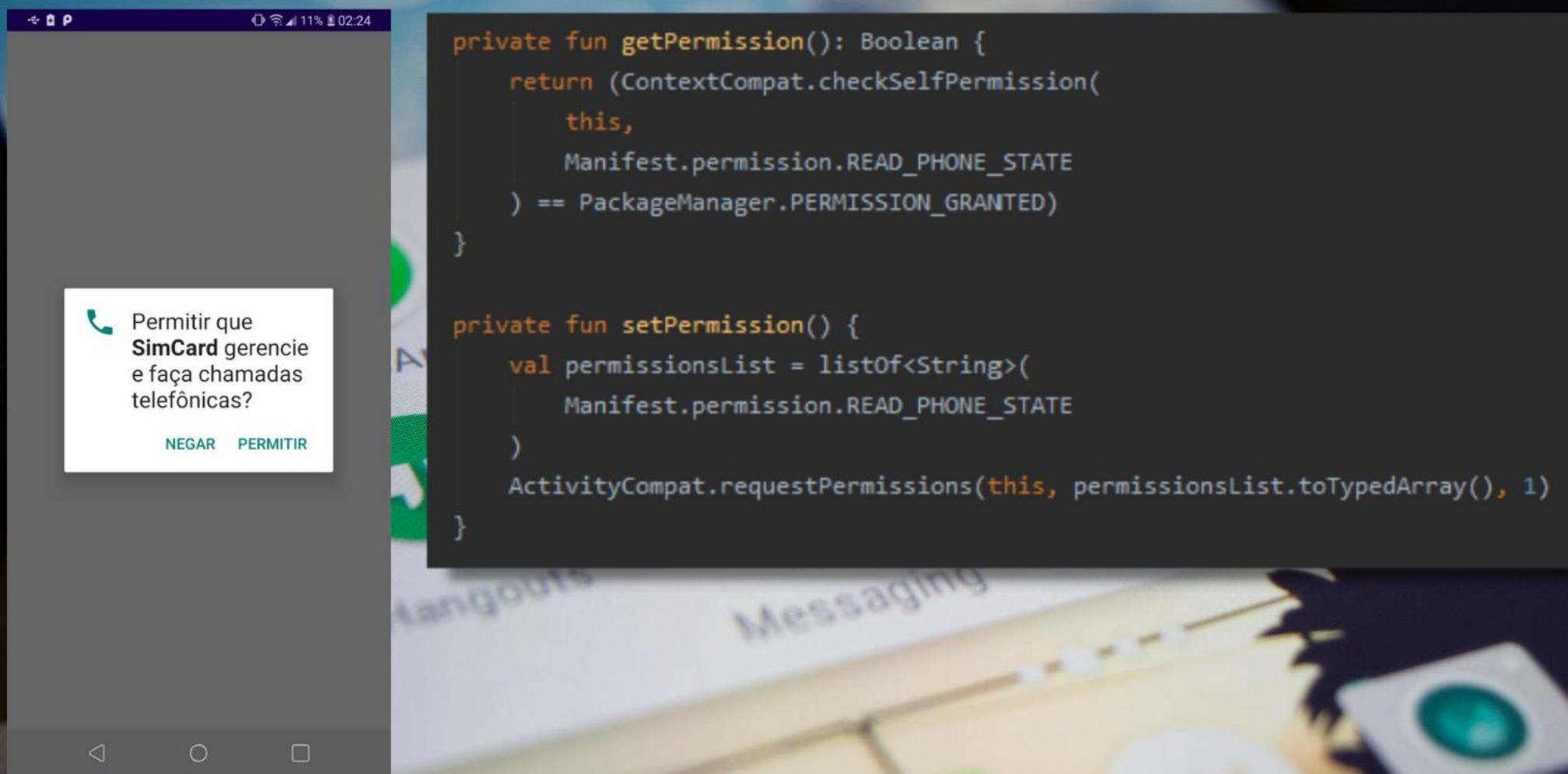
SPRINT III: SERVIÇO

```
override fun onStartCommand(intent: Intent?, flags: Int, startId: Int): Int {  
    showLog("OnStartCommand")  
  
    val runnable = Runnable {  
        for(i in 1..1000){  
            showLog("Service doing something " + i.toString())  
            Thread.sleep(1000)  
        }  
    }  
  
    val thread = Thread(runnable)  
    thread.start()  
  
    return super.onStartCommand(intent, flags, startId)  
}
```



```
1 | # Public: was the result a match between all observations?  
2 | class Scientist::Result  
3 |  
4 | An Array of candidate Observations.  
5 | attr_reader :candidates  
6 |  
7 | The control Observation to which the rest are compared.  
8 | attr_reader :control  
9 |  
10 | An experiment.  
11 | attr_reader :experiment  
12 |  
13 | Which didn't match the control observation.  
14 | attr_reader :mismatches  
15 |  
16 |  
17 |  
18 |  
19 |  
20 |  
21 |  
22 |  
23 |  
24 |  
25 |  
26 |  
27 |  
28 |  
29 |  
30 |  
31 |  
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33 |  
34 |  
35 |  
36 |  
37 |  
38 |  
39 |  
40 |  
41 |  
42 |  
43 |  
44 |  
45 |  
46 | end  
47 |  
48 |  
49 | # Public: was the result a match between all observations?  
50 | def matched?  
51 |  
52 | lib/scientist/result.rb 1:1
```

SPRINT III: PERMISSÃO



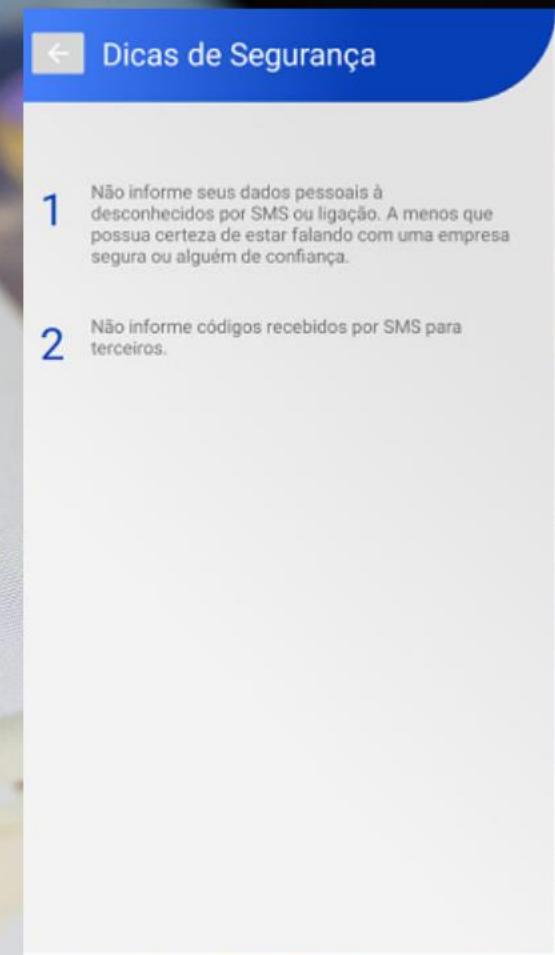
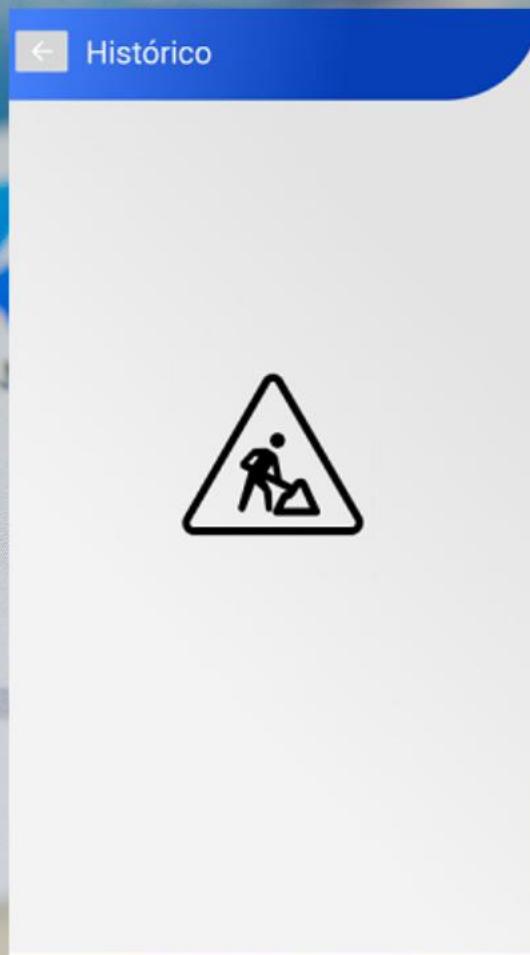
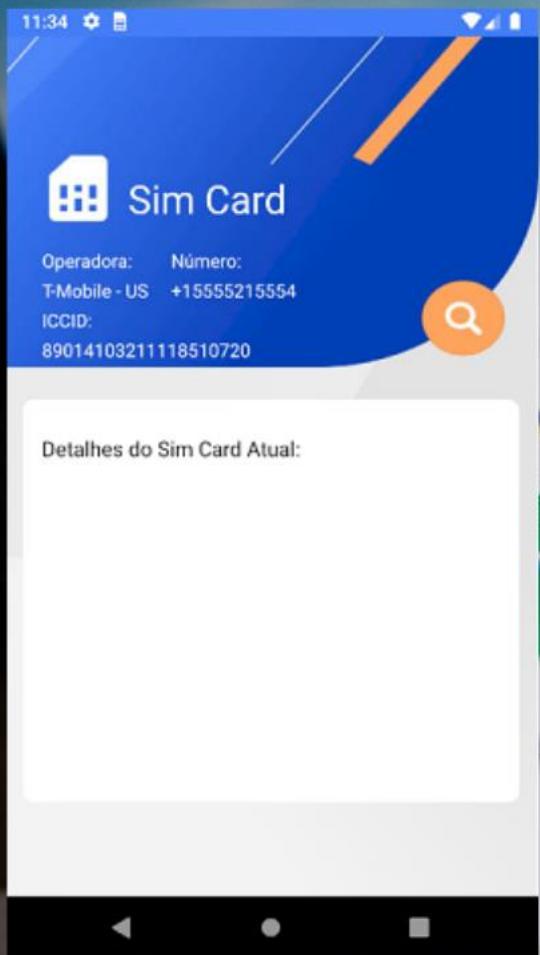
SPRINT III: NOTIFICAR TROCAS

```
private fun observeData() {
    viewModel!!.observeLiveSimState().observe( owner: this,
    { value ->
        if (value) {
            createNotificationChannel()
            sendNotificationInsert()
            Toast.makeText( context: this, text: "Sim INSERIDO", Toast.LENGTH_SHORT).show()
            Log.i(TAG, msg: "ESTADO DO SimCard: SIM INSERIDO / SimState = $value")
            // teste update variáveis
            numbertxt?.text = getNumber()
            iccidtxt?.text = getIccId()
            operadoratxt?.text = getOperator()
        } else {
            createNotificationChannel()
            sendNotificationRemove()
            Toast.makeText( context: this, text: "Sim REMOVIDO", Toast.LENGTH_SHORT).show()
            Log.i(TAG, msg: "ESTADO DO SimCard: SIM REMOVIDO / SimState = $value")
            // teste update variáveis
            numbertxt?.text = getNumber()
            iccidtxt?.text = getIccId()
            operadoratxt?.text = getOperator()
        }
    })
}
```

```
tety@the:~$ adb logcat | grep Time06
05-29 02:38:36.210 20023 20023 I Time06 : ESTADO DO SimCard: SIM INSERIDO / SimState = true
05-29 02:38:36.299 2802 2802 D NotificationServiceEx: notification=Notification(channel=Time06Notify pri=0 contentView=null vibrate=null sound=null defaults=0x0 flags=0x0 color=0x00000000 backgroundColor=0x00000000 vis=PRIVATE)
05-29 02:38:36.301 20023 20023 I Time06 : ESTADO DO SimCard: SIM INSERIDO / SimState = true
05-29 02:38:36.396 2802 2802 D NotificationServiceEx: notification=Notification(channel=Time06Notify pri=0 contentView=null vibrate=null sound=null defaults=0x0 flags=0x0 color=0x00000000 backgroundColor=0x00000000 vis=PRIVATE)
05-29 02:38:44.899 20023 20023 I Time06 : Numero: +5592999823003
05-29 02:38:44.904 20023 20023 I Time06 : ICCID: 8955319929986822644
05-29 02:38:44.910 20023 20023 I Time06 : Operadora: Oi
05-29 02:39:05.688 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
05-29 02:39:05.733 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
^[[05-29 02:39:46.490 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
05-29 02:39:46.545 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
05-29 02:39:50.643 20023 20023 I Time06 : Numero: null
05-29 02:39:50.650 20023 20023 I Time06 : ICCID: null
05-29 02:39:50.652 20023 20023 I Time06 : Operadora: null
05-29 02:39:50.721 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
05-29 02:39:50.882 20023 20023 I Time06 : ESTADO DO SimCard: SIM REMOVIDO / SimState = false
```

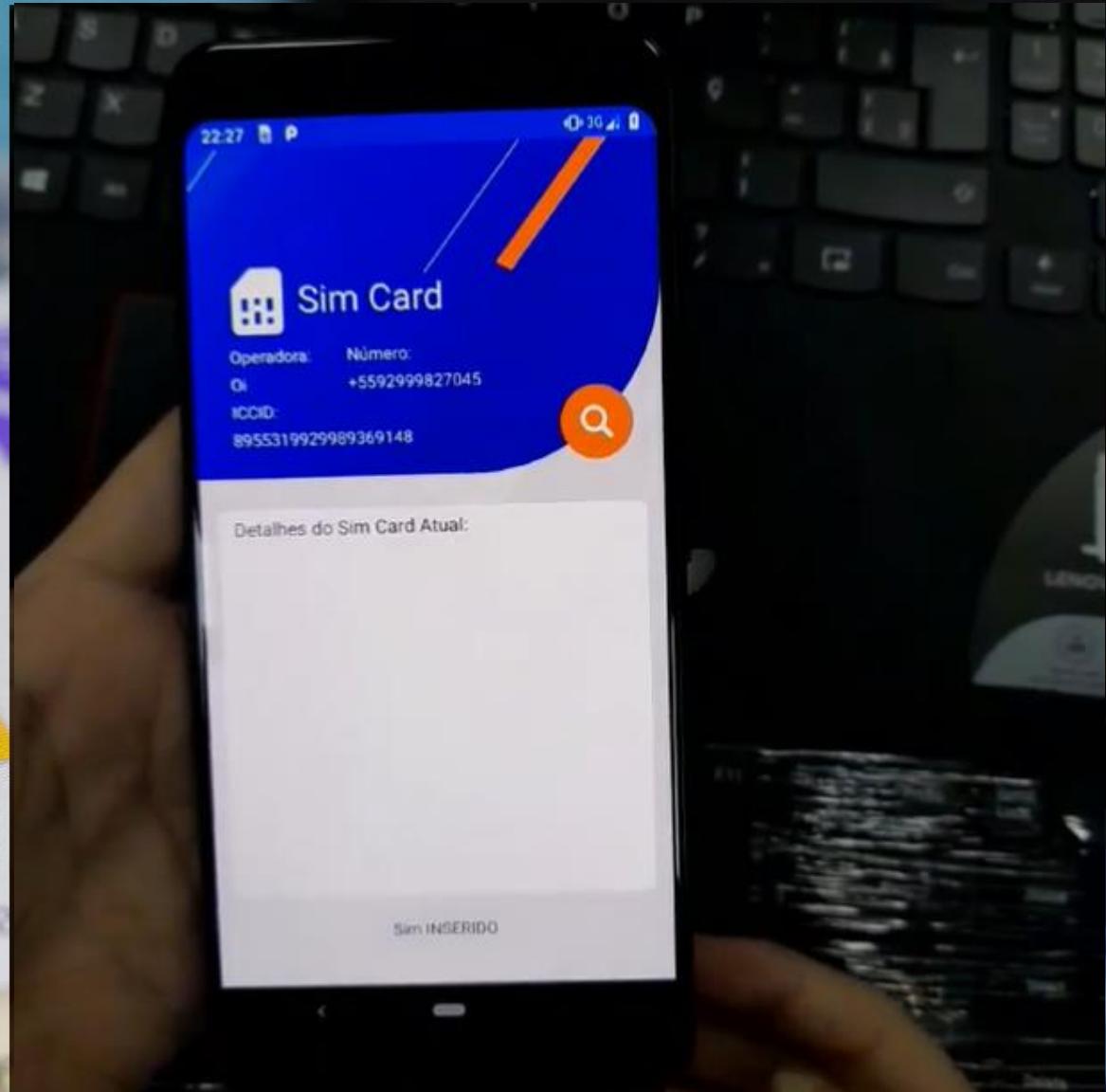


PRÉ-POC: LAYOUT



PROVA DE CONCEITO

- Logs
- Armazenamento dos Logs
- Permissão
- Notificações
- Serviço
- Layout



PRÓXIMAS SPRINTS

PRODUCT BACKLOG

Sprint	ID	Tarefa	Prioridad
	#20	Tela Histórico - Implementar Layout Activity	MÉDIA
	#21	Tela Histórico - Incluir histórico dos SIM's	ALTA
	#22	Tela Detalhes - Implementar Layout Activity	MÉDIA
	#23	Tela Detalhes - Detalhes do SIM Card atual	ALTA
	#24	Tela Dicas - Implementar Layout Activity	MÉDIA
	#25	Tela Dicas - Orientações de segurança	MÉDIA
	#34	Restringir leitura e escrita do arquivo	ALTA
	#38	Migrar txtGenerator() para Telephony Manager	ALTA
	#39	Testar nível de segurança do acesso ao aquivo	ALTA
	#40	observerData() em Foreground	ALTA
	#41	Ativar/Desativar SIM Card pelo App	BAIXA

REFERÊNCIAS



GIT LAB LINKS

- [Repositório](#)
- [Backlog](#)



TIME 06

OBRIGADO!