



Alinma Bank (1.2.9)

File Name: Alinma Bank_1.2.9_apkcombo.com.apk

Package Name: com.alinma.retail.mobile

Average CVSS Score: 6.9

App Security Score: 25/100 (HIGH RISK)

Trackers Detection: 2/405

Scan Date: Sept. 26, 2021, 6:59 p.m.



File Name: Alinma Bank_1.2.9_apkcombo.com.apk

Size: 20.75MB

MD5: 97b95ef896c8841a1fc88df812b24c42

SHA1: ba8c867cc15c49784906a9d4d29a1416761dbe5a

SHA256: 8dcfbf62b818aa7313a840814b219fd7fbf745beaa34c10f5a4ebf3fef6dc5f9

i APP INFORMATION

App Name: Alinma Bank

Package Name: com.alinma.retail.mobile

Main Activity: com.alinma.retail.mobile.MainActivity

Target SDK: 29 Min SDK: 19 Max SDK:

Android Version Name: 1.2.9 **Android Version Code:** 10209

APP COMPONENTS

Activities: 9
Services: 10
Receivers: 16
Providers: 8
Exported Activities: 0
Exported Services: 1
Exported Receivers: 6
Exported Providers: 1



APK is signed

v1 signature: True v2 signature: True v3 signature: False

Found 1 unique certificates

Subject: C=009966, ST=Riyadh, L=Riyadh, O=Alinma Bank, OU=Alinma Bank, CN=Alinma Bank

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2013-04-02 11:38:03+00:00 Valid To: 2043-03-26 11:38:03+00:00

Issuer: C=009966, ST=Riyadh, L=Riyadh, O=Alinma Bank, OU=Alinma Bank, CN=Alinma Bank

Serial Number: 0x5f683e80 Hash Algorithm: sha256

md5: e1034f38956595fa198d2fb0541daf1f

sha1: 22fc4b7e17e1de8e0596ad90750de4c7c765e8e9

sha256: 4658c6ef9a946d7c19c79e74a13a6ce379eee8736a582e1e3206f7bed276a8d1

sha512:

ff8ed789c6f338069d1b9997c565b7aa8ffbefd57b17a1f7cf1c5a20c889828a32c65da7ba4b445619c786d0e3cc4d3a8dc1b45bb9b057556dafaebf6fca694c

Fingerprint: da 0a 38 a 40 037 faf 6e 78 db 1c 54 b 47 07 66 20 d4 a 88 217 a 334 e 8e 10447 e 945 f78 64 c

STATUS	DESCRIPTION
secure	Application is signed with a code signing certificate
warning	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android <7.0

∷ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network- based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power.
android.permission.USE_FINGERPRINT	normal	allow use of fingerprint	This constant was deprecated in API level 28. Applications should request USE_BIOMETRIC instead.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.CAMERA	dangerous	take pictures and videos	Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time.
android.permission.FLASHLIGHT	normal	control flashlight	Allows the application to control the flashlight.
com.amazon.device.messaging.permission.RECEIVE	unknown	Unknown permission	Unknown permission from android reference
com.alinma.retail.mobile.permission.RECEIVE_ADM_MESSAGE	unknown	Unknown permission	Unknown permission from android reference
com.sec.android.provider.badge.permission.READ	normal	Show notification count on app	Show notification count or badge on application launch icon for samsung phones.
com.sec.android.provider.badge.permission.WRITE	normal	Show notification count on app	Show notification count or badge on application launch icon for samsung phones.
com.htc.launcher.permission.READ_SETTINGS	normal	Show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.htc.launcher.permission.UPDATE_SHORTCUT	normal	Show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.sonyericsson.home.permission.BROADCAST_BADGE	normal	Show notification count on app	Show notification count or badge on application launch icon for sony phones.
com.sonymobile.home.permission.PROVIDER_INSERT_BADGE	normal	Show notification count on app	Show notification count or badge on application launch icon for sony phones.
com.anddoes.launcher.permission.UPDATE_COUNT	normal	Show notification count on app	Show notification count or badge on application launch icon for apex.
com.majeur.launcher.permission.UPDATE_BADGE	normal	Show notification count on app	Show notification count or badge on application launch icon for solid.
com.huawei.android.launcher.permission.CHANGE_BADGE	normal	Show notification count on app	Show notification count or badge on application launch icon for huawei phones.

PERMISSION	STATUS	INFO	DESCRIPTION
com.huawei.android.launcher.permission.READ_SETTINGS	normal	Show notification count on app	Show notification count or badge on application launch icon for huawei phones.
com.huawei.android.launcher.permission.WRITE_SETTINGS	normal	Show notification count on app	Show notification count or badge on application launch icon for huawei phones.
android.permission.READ_APP_BADGE	normal	show app notification	Allows an application to show app icon badges.
com.oppo.launcher.permission.READ_SETTINGS	normal	Show notification count on app	Show notification count or badge on application launch icon for oppo phones.
com.oppo.launcher.permission.WRITE_SETTINGS	normal	Show notification count on app	Show notification count or badge on application launch icon for oppo phones.
me.everything.badger.permission.BADGE_COUNT_READ	unknown	Unknown permission	Unknown permission from android reference
me.everything.badger.permission.BADGE_COUNT_WRITE	unknown	Unknown permission	Unknown permission from android reference
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
com.google.android.c2dm.permission.RECEIVE	signature	C2DM permissions	Permission for cloud to device messaging.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	unknown	Unknown permission	Unknown permission from android reference
android.permission.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground.

PAPKID ANALYSIS

FILE	DETAILS		
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.BOARD check possible Build.SERIAL check Build.TAGS check SIM operator check possible ro.secure check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	r8	

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.alinma.retail.mobile.MainActivity	Schemes: alinmabanksmartphoneapp://,

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION	
----	-------	----------	-------------	--

Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION

NO	ISSUE	SEVERITY	DESCRIPTION
1	Clear text traffic is Enabled For App [android:usesCleartextTraffic=true]		The app intends to use cleartext network traffic, such as cleartext HTTP, FTP stacks, DownloadManager, and MediaPlayer. The default value for apps that target API level 27 or lower is "true". Apps that target API level 28 or higher default to "false". The key reason for avoiding cleartext traffic is the lack of confidentiality, authenticity, and protections against tampering; a network attacker can eavesdrop on transmitted data and also modify it without being detected.
2	Application Data can be Backed up [android:allowBackup] flag is missing.	medium	The flag [android:allowBackup] should be set to false. By default it is set to true and allows anyone to backup your application data via adb. It allows users who have enabled USB debugging to copy application data off of the device.
3	Broadcast Receiver (nl.xservices.plugins.ShareChooserPendingIntent) is not Protected. An intent-filter exists.	high	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. The presence of intent-filter indicates that the Broadcast Receiver is explicitly exported.
4	Broadcast Receiver (com.pushwoosh.PushAmazonReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.amazon.device.messaging.permission.SEND [android:exported=true]		A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

NO	ISSUE	SEVERITY	DESCRIPTION
5	Broadcast Receiver (com.pushwoosh.BootReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.RECEIVE_BOOT_COMPLETED [android:exported=true]		A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
6	Content Provider (com.pushwoosh.PushwooshSharedDataProvider) is not Protected. [android:exported=true]	high	A Content Provider is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
7	Broadcast Receiver (com.google.firebase.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	high	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
8	Broadcast Receiver (com.google.android.gms.measurement.AppMeasurementInstallReferrerReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.INSTALL_PACKAGES [android:exported=true]	high	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

NO	ISSUE	SEVERITY	DESCRIPTION
9	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	high	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
10	Broadcast Receiver (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	high	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/pushwoosh/firebase/internal/ch ecker/FirebaseChecker.java com/scottyab/rootbeer/util/QLog.jav a com/pushwoosh/NotificationOpenRe ceiver.java com/scottyab/rootbeer/RootBeer.jav a com/pushwoosh/secure/crypt/mana ger/RsaDecryptorManager.java com/phonegap/plugins/barcodescan ner/BarcodeScanner.java com/bumptech/glide/load/data/medi astore/ThumbFetcher.java com/pushwoosh/internal/preference /PreferenceVibrateTypeValue.java com/pushwoosh/richmedia/RichMed in inva

NO	ISSUE	SEVERITY	STANDARDS	com/bumptech/glide/load/model/Str FILES eamEncoder.java
NO	ISSUE	SEVERITY	STANDARDS	com/pushwoosh/inapp/view/f.java com/pushwoosh/richmedia/a.java com/pushwoosh/secure/crypt/c/a/d.j ava com/pushwoosh/notification/LocalN otificationReceiver.java com/pushwoosh/notification/Notifica tionServiceExtension.java com/pushwoosh/a.java com/bumptech/glide/manager/Defau ltConnectivityMonitor.java com/bumptech/glide/load/resource/ bitmap/DefaultImageHeaderParser.ja va com/pushwoosh/inbox/internal/data /InboxMessageSource.java com/pushwoosh/internal/utils/LockS creenReceiver.java com/pushwoosh/internal/internal/re gistrar/AdmRegistrar.java com/pushwoosh/inbox/internal/data /b.java com/pushwoosh/inapp/view/RichMe diaWebActivity.java com/pushwoosh/notification/handler
				s/notification/b.java com/bumptech/glide/load/model/Re sourceLoader.java com/pushwoosh/internal/utils/e.java com/pushwoosh/secure/crypt/c/e/a/ b.java com/pushwoosh/inapp/view/h/b.jav a com/bumptech/glide/load/engine/ca che/MemorySizeCalculator.java com/pushwoosh/repository/InboxNo tificationStorageImpl.java com/pushwoosh/inbox/e/d.java
				com/pushwoosh/repository/LockScr eenMediaStorageImpl.java com/bumptech/glide/manager/Defau ltConnectivityMonitorFactory.java com/pushwoosh/c.java com/scottyab/aescrypt/AESCrypt.java com/pushwoosh/Pushwoosh.java com/bumptech/glide/load/model/Fil eLoader.java com/bumptech/glide/util/ContentLen gthInputStream.java com/bumptech/glide/load/resource/ bitmap/Downsampler.java com/pushwoosh/internal/preference
				/PreferenceLongValue.java com/alinma/tls/TlsCheckerPlugin.jav a com/bumptech/glide/gifdecoder/Gif HeaderParser.java com/pushwoosh/secure/crypt/c/b/a.j ava com/bumptech/glide/load/data/medi astore/ThumbnailStreamOpener.java com/pushwoosh/secure/c/a/d.java com/bumptech/glide/load/resource/

computativación internal inter	NO	ISSUE	SEVERITY	STANDARDS	Figure 1. Special Authors and the second sec
own pushwoods/firebase/internalize gistrar/Firengsgistrar/Worker_giava compushwoods/firebase/internalize gistrar/Firengsgistrar/Firengsgiava compushwoods/firebase/inava compushwoods/firebase/inava-firebase/					rintauth/FingerprintAuth.java com/pushwoosh/internal/network/f.j
gistrar/EmRegistra/Volkeria/gay com/putpwoosch/fibigin/PutsCheeloe attorn, ava com/bumptecht/gilde/manager/Requ estManager/Require/gilde/manager/Requ estManager/Require/gilde/manager/Require/gilde/manager/Require/gilde/manager/Require/gilde/manager/Require/gilde/manager/Require/gilde/manager/Require/gilde/manager/gilde/ga/de/emgilde/ga/de/emgilde/ga/de/emgilde/ga/de/emgilde/ga/de/g					
com/puntwoosh/Bootfeesiver.java com/bumpoch/glider/load/engine/So urcscenerator.java com/bumpoch/glider/managor/Supp uffercher.java com/pustwoosh/managon/Anazon					com/pushwoosh/firebase/internal/re
com/bumpter/pijlodmanager/RequestManager/Retriver/jiiodmanager/RequestManager/Retriver/jiiodmandrosphecisedmanager/RequestManager/Retriver/jiiodmandrosphecisedmanager/RequestManager/Retriver/diplodmandrosphecisedmanager/RequestManager/Retriver/diplodmandrosphecisedmanager/diplodman					
estManage Retrieve; java com/pushwoosh/pujan/Push/seoloc aton java com/pushwoosh/pujan/Push/seoloc aton java com/pushwoosh/pujan/Push/seoloc aton java com/pushwoosh/secure/crypt/of/c/_ ava com/pushwoosh/secure/crypt/of/c/_ ava com/pushwoosh/secure/crypt/of/c/_ ava com/pushwoosh/secure/crypt/of/c/_ ava com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/pujan/pt/as/java com/pushwoosh/secure/crypt/arb_java com/pushwoosh/pujan/pt/as/java com/pushwoosh/pushpy/cas/java com/pushwoosh/					
compushwoosh/high/else/local oldengine/SourceGeneratorype/cidic_jawa com/bushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/cidic_jawa compushwoosh/incure/crype/a/b_jawa compushwoosh/incure/crype/crype/a/b_jawa compushwoosh/incure/crype/crype/a/b_jawa compushwoosh/incure/crype/crype/a/b_jawa compushwoosh/incure/crype/crype/crype/a/b_jawa compushwoosh/incure/crype/crype/crype/a/b_jawa compushwoosh/incure/crype/cr					
com/bumpscch/glide/load/engine/So urcsGenerator/glide/load/engine/So urcsGenerator/glide/load/engine/So urcsGenerator/glide/load/engine/So ava com/pushwoosh/internal/greference //PreferenceStype/dise/jawa com/bumpscch/glide/load/data/Http Urf-etcher.jawa com/pushwoosh/inapp/h/a.jawa com/pushwoosh/inapp/h/a.jawa com/pushwoosh/inapp/h/a.jawa com/pushwoosh/inapp/load/engine/g profite/guesh/indicator/generator/g profite/guesh/indicator/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/inapp/load/engine/g com/pushwoosh/internal/urisperence/g sionActivity/g com/pushwoosh/internal/urisperence/g com/pushwoosh/internal/urisperence/g com/pushwoosh/internal/urisperence/g com/pushwoosh/internal/urisperence/g com/pushwoosh/internal/urisperence/r com/pushwoosh/internal/urisperence/r com/pushwoosh/internal/urisperence/r com/pushwoosh/internal/urisperence/r com/pushwoosh/internal/urisperence/r referencestring/alue_load-engine/g engine/g com/pushwoosh/internal/urisperence/r engine/g com/pushwoosh/internal/urisperence/r engine/g engine/g engine/g com/pushwoosh/internal/urisperence/r engine/g					-
urceGenerator, java com/pushwoosh/riternal/preference //referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh/referenceSoundTypeAlusi_java com/pushwoosh					
com/pushwoosh/stecure/crypt/c/fc/j ava com/pushwoosh/stecure/preference //preference/sound/type/alue_java com/sumptoch/gilde/load/data/Http Urifector_ia_java com/pushwoosh/stecure/crypt/a/b_java c					
awa compushwoosh/internal/preference //PreferenceSound/psydue_jaya com/bumptech/glide/load/data/Http Ut/Fetcher_jaya com/pushwoosh/secure/crypt/a/b_jaya com/pushwoosh/secure/crypt/a/b_jaya com/pushwoosh/secure/crypt/a/b_jaya com/pushwoosh/inapph/a/jaya-jaya com/pushwoosh/inapph/a/jaya-jaya-jaya-jaya-jaya-jaya-jaya-ja					
com/pushwoosh/internal/preference //Prefectors/glue/load/odat/data/http UirFectors/glue/load/odat/data/http UirFectors/glue/load/odat/data/http UirFectors/glue/load/odat/data/http UirFectors/glue/load/odat/data/http UirFectors/glue/load/odat/data/http UirFectors/glue/load/odata/http uirfectors/glue/load/odata/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load/glue/load					
//PreferenceSound/yes/alue_java com/pushwoosh/amazon/AmazonIni tializer_java com/pushwoosh/secure/crypt/a/b_java com/pushwoosh/inapp/fi/o_java com/pushwoosh/internal/usis/Permi saionActivity_java com/pushwoosh/internal/usis/Permi saionActivity_java com/pushwoosh/internal/preference //PreferenceSting/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java com/pushwoosh/internal/pushu-java co					
unifiecther java com/pusitwoosh/mazon/Amazon/in tializer java com/pusitwoosh/secure/crypt/a/b.ja va acom/pusitwoosh/inapy/h/a.java com/pusitwoosh/inapy/h/a.java com/pusitwoosh/inapy/h/a.java com/pusitwoosh/inapy/h/a.java com/pusitwoosh/inapy/inapy/h/a.java com/pusitwoosh/inapy/inap					
com/pushwoosh/mazon/Amazonini tializer_java com/pushwoosh/inapp/h/a_java com/pushwoosh/inapp/h/a_java com/pushwoosh/inapp/h/a_java com/pushwoosh/inapp/men_java com/pushwoosh/inapp/men_java com/pushwoosh/inapp/men_java com/pushwoosh/pigir/Pushwoosh/ dulenvoifi, and com/pushwoosh/pigir/Pushwoosh/ ecure_java com/pushwoosh/pigir/Pushwoosh/ ecure_java com/pushwoosh/inapp/mew_a_java com/pushwoosh/inapp/mew					
tallzer_java com/pushwoosh/secure/crypt/a/b_ja va com/pushwoosh/secure/crypt/a/b_ja com/pushwoosh/napp/h/a_java com/pushwoosh/napp/h/a_java com/pushwoosh/napp/mosh/secure/crypt/a/b_java com/pushwoosh/notification/Resche duleNotifications/borker_java com/pushwoosh/notification/Resche duleNotifications/borker_java com/pushwoosh/notification/Resche duleNotifications/borker_java com/pushwoosh/shadge/e/a/c_java com/pushwoosh/internal/tufis/Permi sionActivity_java com/pushwoosh/internal/tufis/Permi delifications/borker_java com/pushwoosh/internal/tufis/Permi com/pushwoosh/internal/tufis/Permi delifications/borker_java com/pushwoosh/internal/preference //PreferenceStringyAlue_java com/pushwoosh/otifications/borker_java com/pushwoosh/otifications/borker_java com/pushwoosh/otifications/borker_java com/pushwoosh/otification/summa nybotification/summa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/sumpa nybotification/supplice/java com/pushwoosh/notification/summa nybotification/supplice/java com/pushwoosh/notification/summa nybotification/supplice/java com/pushwoosh/notification/summa nybotification/supplice/java com/pushwoosh/notification/summa nybotification/supplice/java com/pushwoosh/notification/sumplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notification/supplice/java com/pushwoosh/notifi					
va com/pushwoosh/inapp/h/a.java com/bumptech/glide/manager/Supp ortRequest/Manager fragment_Java com/pushwoosh/motification/Resche duleNotifications/worker_java com/pushwoosh/plugin/Pushwoosh/s ecure_java com/pushwoosh/plugin/Pushwoosh/s ecure_java com/pushwoosh/plugin/Pushwoosh/s ecure_java com/pushwoosh/neternal/utis/Permi soinActivity_java com/pushwoosh/internal/preference/ som/pushwoosh/internal/preference/ /PreferenceString/blue_java com/pushwoosh/internal/preference/ /PreferenceString/blue_java com/pushwoosh/internal/preference/ /PreferenceString/blue_java com/pushwoosh/internal/preference/ /PreferenceString/blue_java com/pushwoosh/internal/preference/ /PreferenceString/blue_java com/pushwoosh/internal/preference/ reflibition_java com/pushwoosh/internal/preference/ eflibitingprefilialluner_java com/pushwoosh/internal/preference/ eflibitingprefilialluner_java com/pushwoosh/internal/preference/ reflibitingprefilialluner_java com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingprefilialluner_iava com/pushwoosh/internal/preference/ reflibitingp					tializer.java
com/pushwoosh/napp/Najava com/pushwoosh/napp/nap/najava com/pushwoosh/napp/nap/nap/nap/nap/nap/nap/nap/nap/na					
com/bumptech/glide/manager/Supp ortRequestManagerFragment,java com/pushwoosh/napph/iewli/c_java com/pushwoosh/natification/Resche duleNotifications/worker_java com/pushwoosh/plugin/Pushwoosh ecure_java com/pushwoosh/plugin/Pushwoosh ecure_java com/pushwoosh/napph/iewli/glide/nad/model/By teBufferFileLoader_java com/bumptech/glide/nad/model/By teBufferFileLoader_java com/pushwoosh/napph/iewlagava com/pushwoosh/napph/iewlagava com/pushwoosh/napph/iewlagava com/pushwoosh/napph/iegava com/pushwoosh/napph/i					
ortRequestManagerFragment_java com/pushwoosh/napp/view/ir_java com/pushwoosh/hotification/Resche duleNotifications/Vorker_java com/pushwoosh/blugin/Pushwooshs ecure_java com/pushwoosh/blugin/Pushwooshs ecure_java com/pushwoosh/inapp/view/a_java com/pushwoosh/inapp/view/a_java com/pushwoosh/inapp/view/a_java com/pushwoosh/inapp/view/a_java com/pushwoosh/inapp/view/a_java com/pushwoosh/inapp/view/a_java com/pushwoosh/internal/preference //PreferenceStringy/alue_java com/pushwoosh/internal/preference //PreferenceStringy/alue_java com/pumptech/gilder/oad/model/By teBufferFileLoader_java com/pumptech/gilder/oad/engine/ca che/DiskLruCacheWrapper_java com/pushwoosh/internal/network/N etworkModule_java com/pushwoosh/internal/per/per/per/per/per/per/per/per/per/per					
com/pushwoosh/napp/view/lr_java com/pushwoosh/notification/Resche duleNotifications/Worker_java com/pushwoosh/plugin/Pushwooshs ecure_java com/pushwoosh/badge/e/a/c_java com/pushwoosh/napa/viewa_java com/pushwoosh/napa/viewa_java com/pushwoosh/napa/viewa_java com/pushwoosh/napa/viewa_java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/napa/piewa-java com/pushwoosh/notification/Suma rynwoosh/notification/Suma rynwoosh/notification/Suma rynwoish/mosh/napa/viewa-java com/pushwoosh/notification/Suma rynwoish/mosh/napa/viewa-java com/pushwoosh/notification/Suma rynwoish/mosh/napa/viewa-java com/pushwoosh/notification/Suma rynwoish/mosh/napa/viewa-java com/pushwoosh/notification/Suma rynwoish/mosh/riapa/viewi/y_java com/pushwoosh/notification/Suma rynwoish/mosh/napa/viewi/y_java com/pushwoosh/napa/viewi/y_java com/pushwoosh/napa/viewi/y_					
duleNotificationsWorker.java com/pushwoosh/plugin/Pushwoosh/secure.java com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/preference //PreferenceStringValue.java com/pushwoosh/integral/preference //PreferenceStringValue.java com/pushwoosh/integral/cijava com/pushwoosh/integral/cijava com/pushwoosh/integral/preference com/pushwoosh/integral/preference refili/BitmapPrefilikunner.java com/pushwoosh/ricenal/preference com/pushwoosh/rotification/Summa ryNotification/summa ryNotification					com/pushwoosh/inapp/view/i/c.java
com/pushwoosh/plugin/PushwooshS ecure_java com/pushwoosh/badge/e/a/c_java com/pushwoosh/internal/utils/Permi ssionActivity_java com/pushwoosh/internal/utils/Permi ssionActivity_java com/pushwoosh/internal/preference com/pushwoosh/internal/preference //PreferenceStringySalue_java com/pushwoosh/internal/preference //PreferenceStringySalue_java com/bumptech/gilde/load/engine/ca che/DisktruCacheWrapper_java com/pushwoosh/bajava com/pushwoosh/bajava com/pushwoosh/bajava com/pushwoosh/bajava com/pushwoosh/notification/summa ryNotification/summa ryNotification/summa ryNotification/tunger/independence/pava com/pushwoosh/notification/summa ryNotification/tunger/independence/pava com/pushwoosh/notification/summa ryNotification/summa ryNotificat					com/pushwoosh/notification/Resche
ecure.java com/pushwoosh/badge/e/a/c.java com/pushwoosh/internal/utils/Permi ssionActivity.java com/pushwoosh/inapp/view/a.java com/pushwoosh/inapp/view/a.java com/bushwoosh/internal/preference /PreferenceStringValue.java com/bushwoosh/internal/preference /PreferenceStringValue.java com/bumptech/glide/lada/reguest/target/ ViewTarget.java com/bumptech/glide/lada/reguest/target/ ViewTarget.java com/pushwoosh/ib.java com/pushwoosh/ib.java com/pushwoosh/ib.java com/pushwoosh/internal/retwork/N etworkModule.java com/pushwoosh/internal/retwork/N etworkModule.java com/pushwoosh/internal/retwork/N etmorkModule.java com/pushwoosh/internal/palenders/ s/message/user/c.java com/pushwoosh/interiation/Summa ryNotification/Usia.java com/pushwoosh/intersat/pl.java com/pushwoosh/inapp/ic.java com/pushwoosh/inapp/ic.java com/pushwoosh/inapp/icwi/lg.java com/pushwoosh/inapp/icwi/lg.java com/pushwoosh/inapp/icwi/lg.java com/pushwoosh/inapp/icwi/lg.java com/pushwoosh/internal/platform/ tils/a.java com/pushwosh/internal/platform/ tils/a.java com/pushwosh/internal/platform/ tils/a.java com/pushwosh/internal/platform/ tils/a.java com/pushwosh/internal/platform/ tils/a.java com/pushwosh/internal/p					
com/pushwoosh/badge/e/a/c_java com/pushwoosh/hatemal/utils/Permi ssionActivity.java com/pushwoosh/inapp/view/a_java com/bumptech/glide/load/model/By tteBufferFileLoader_java com/pushwoosh/internal/preference //PreferenceStringValue_java com/bumptech/glide/load/engine/ca com/bumptech/glide/load/engine/ca com/pushwoosh/internal/preference //PreferenceStringValue_java com/pushwoosh/internal/preference //PreferenceStringValue_java com/pushwoosh/internal/prefuer/ca com/pushwoosh/internal/network/N etworkModule_java com/pushwoosh/internal/network/N etworkModule_java com/pushwoosh/notification/handler s/message/user/c_java com/pushwoosh/notification/summa ryNotification/tills_java com/pushwoosh/inappf/yc_java com/pushwoosh/inappf/yc_java com/pushwoosh/inappf/vewi//g_java com/pushwoosh/inappf/vewi//g_java com/pushwoosh/inappf/vewi//g_java com/pushwoosh/inappf/vewi/lg_java com/pushwoosh/inappf/vewi/lg_java com/pushwoosh/inatemal/platform/u tils/a_java com/pushwoosh/inetmal/platform/u tils/a_java com/pushwoosh/inetmal/platform/u tils/a_java com/pushwoosh/inetmal/platform/u tils/a_java com/pushwoosh/inetpal/platform/u tils/a_java					
com/pushwoosh/internal/utils/Permi ssionActivity,java com/pushwoosh/inapp/view/a.java com/pushwoosh/internal/preference com/pushwoosh/internal/preference /PreferenceStringValue.java com/pumptech/glide/roquest/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/TolsktruCacheWrapper.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/nandler s/message/user/c.java com/pushwoosh/intification/Jsumna ryNotificationUtils.java com/pushwoosh/intification/Sumna ryNotificationUtils.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inappi/ic.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/iewi/i/g.java com/pushwoosh/inapp/i/c.java					
com/pushwoosh/inapp/view/a.java com/pumpter/vgilde/load/model/By teBufferfile.oader.java com/pushwoosh/internal/preference //PreferenceString/alue.java com/bumpter/vgilde/request/target/ ViewTarget.java com/bumpter/vgilde/request/target/ ViewTarget.java com/pushwoosh/b.java com/pushwoosh/b.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/notification/summa ryNotification/summa ryNotif					com/pushwoosh/internal/utils/Permi
com/bumptech/glide/load/model/By teBufferFileLoader.java com/pushwoosh/internal/preference /PreferenceStringValue.java com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/b.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/notification/landler s/message/user/c.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/nappfi/c.java com/pushwoosh/inappfi/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inappfi/c.java					ssionActivity.java
teBufferFileLoader.java com/pushwoosh/internal/preference //referenceStringValue.java com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/intification/handler s/message/user/c.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/notification/sulider vor_java com/pushwoosh/notification/builder vor_java com/pushwoosh/notification/builder vNotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/pushwoosh/internal/platform/u					
com/pushwoosh/internal/preference /PreferenceStringValue.java com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/b.java com/pushwoosh/b.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/summa ryNotification/totification/summa ryNotificationUtils.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/jc.java com/pushwoosh/inapp/jc.java com/pushwoosh/inapp/jc.java com/pushwoosh/inapp/ic.java					
//PreferenceStringValue.java com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/internal/network/N etworkModule.java com/pushwoosh/internal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efill/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotification/Utils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/i/e.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/internal/platform/u tils/a.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/bumptech/glide/request/target/ ViewTarget.java com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/b.java com/pushwoosh/internal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efill/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/internal/platform/u tils/a.java com/pushwoosh/internal/platform/u tils/a.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codejob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/bumptech/glide/load/engine/ca che/DiskLruCacheWrapper.java com/pushwoosh/internal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efil/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/inapp/view/i/g.java					com/bumptech/glide/request/target/
che/DiskLruCacheWrapper.java com/pushwoosh/b.java com/pushwoosh/niternal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efiil/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/ivew/i/g.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/rification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					0 1
com/pushwoosh/b.java com/pushwoosh/internal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efill/BitmapPreFillRunner.java com/pushwoosh/notification/summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/repository/s.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/inapp/latform/u tils/a.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/pushwoosh/internal/network/N etworkModule.java com/bumptech/glide/load/engine/pr efill/BitmapPrefillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
etworkModule.java com/bumptech/glide/load/engine/pr efill/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/i/c.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/bumptech/glide/load/engine/pr efill/BitmapPreFillRunner.java com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/pushwoosh/notification/handler s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/pushwoosh/inapp/i/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					com/bumptech/glide/load/engine/pr
s/message/user/c.java com/pushwoosh/notification/Summa ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/pushwoosh/notification/SummaryNotification/Utils.java com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetriever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
ryNotificationUtils.java com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
com/pushwoosh/inapp/j/c.java com/andreszs/smsretriever/SMSRetri ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					•
ever.java com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					com/pushwoosh/inapp/j/c.java
com/pushwoosh/inapp/view/i/g.java com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					com/andreszs/smsretriever/SMSRetri
com/pushwoosh/repository/s.java com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					*
com/pushwoosh/notification/builder /NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
/NotificationBuilderManager.java com/pushwoosh/internal/platform/u tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
tils/a.java com/bumptech/glide/load/engine/De codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					/NotificationBuilderManager.java
com/bumptech/glide/load/engine/DecodeJob.java com/bumptech/glide/load/resource/bitmap/HardwareConfigState.java					com/pushwoosh/internal/platform/u
codeJob.java com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					=
com/bumptech/glide/load/resource/ bitmap/HardwareConfigState.java					
bitmap/HardwareConfigState.java					
					bitmap/HardwareConfigState.java
	I	I	1	l	, , , , , , , , , , , , , , , , , , , ,

NO	ISSUE	SEVERITY	STANDARDS	com/pusnwoosn/repository/w.java
				essageType.java
1	The App logs information. Sensitive information should never be logged.	info	CVSS V2: 7.5 (high) CWE: CWE-532 Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/pushwoosh/inbox/data/InboxM essageType.java com/pushwoosh/repository/Reposito ryModule.java com/bumptech/glide/load/engine/bit map_recycle/LruBitmapPool.java com/pushwoosh/internal/preference /PreferenceBooleanValue.java com/pushwoosh/notification/Pushw ooshNotificationManager.java com/scottyab/rootbeer/RootBeerNati ve.java com/pushwoosh/internal/platform/p refs/migration/MigrationScheme.java com/pushwoosh/internal/platform/u tils/GeneralUtils.java com/pushwoosh/internal/preference /PreferenceClassValue.java com/pushwoosh/inbox/b/c/a.java com/pushwoosh/inbox/b/c/a.java com/pushwoosh/inbox/b/c/a.java com/bumptech/glide/load/resource/bitmap/TransformationUtils.java com/bumptech/glide/load/model/By teBufferEncoder.java com/pushwoosh/thirdpart/com/iron z/binaryprefs/dump/DumpReceiver.java com/bumptech/glide/module/Manife stParser.java com/bumptech/glide/module/Manife stParser.java com/cordova/plugin/android/fingerp rintauth/FingerprintAuthenticationDi alogFragment.java com/pushwoosh/inbox/internal/data //nboxMessageStatus.java com/pushwoosh/PushwooshWorkM anagerHelper.java com/pushwoosh/PushwooshWorkM anagerHelper.java com/pushwoosh/inapp/view/g.java com/pushwoosh/inapp/view/h/c.java com/pushwoosh/inapp/view/h/c.java com/pushwoosh/inapp/view/h/c.java com/pushwoosh/internal/utils/d.java com/pushwoosh/internal/utils/d.java com/pushwoosh/internal/preference /PreferenceIntValue.java com/pushwoosh/internal/preference /PreferenceIntValue.java com/pushwoosh/inbox/b/c/c.java com/pushwoosh/inbox/b/c/c.
				com/pushwoosh/inapp/c.java com/pushwoosh/inbox/b/c/c.java
				ava com/pushwoosh/internal/command/ CommandApplayer.java com/bumptech/glide/load/engine/ex ecutor/GlideExecutor.java com/pushwoosh/secure/a/e.java com/pushwoosh/inapp/h/b.java

NO	ISSUE	SEVERITY	STANDARDS	ជាមួន th.java com/pushwoosh/inapp/view/i/h/b.ja
				va
				com/bumptech/glide/load/data/Local
				UriFetcher.java com/pushwoosh/inbox/e/e.java
				com/pushwoosh/inapp/view/i/e.java
				com/pushwoosh/plugin/geolocation/
				LocationSettingsResolutionActivity.ja
				va
				com/pushwoosh/internal/utils/JsonU
				tils.java
				com/pushwoosh/repository/d.java
				com/pushwoosh/inbox/b/c/g.java com/pushwoosh/plugin/pushnotifica
				tions/PushNotifications.java
				com/bumptech/glide/load/data/Asset
				PathFetcher.java
				com/pushwoosh/inapp/f/d.java
				com/pushwoosh/plugin/pushnotifica
				tions/PushwooshNotificationServiceE
				xtension.java
				com/pushwoosh/DeepLinkActivity.ja
				va com/pushwoosh/internal/preference
				/PreferenceArrayListValue.java
				com/bumptech/glide/util/pool/Factor
				yPools.java
				com/pushwoosh/internal/network/g.
				java
				com/pushwoosh/inbox/f/c/b.java
				com/bumptech/glide/load/resource/
				bitmap/DrawableToBitmapConverter
				.java com/pushwoosh/secure/crypt/c/e/d.j
				ava
				com/bumptech/glide/load/engine/En
				gine.java
				com/pushwoosh/inapp/f/a.java
				com/pushwoosh/secure/crypt/mana
				ger/a.java
				com/pushwoosh/inapp/a.java
				com/pushwoosh/firebase/Pushwoos hFcmHelper.java
				com/pddstudio/preferences/encrypte
				d/EncryptedPreferences.java
				com/pushwoosh/repository/o.java
				com/pushwoosh/notification/builder
				/a.java
				com/bumptech/glide/request/SingleR
				equest.java
				com/pushwoosh/inapp/j/k/c.java com/pushwoosh/PushAmazonIntent
				Service.java
				com/lampa/startapp/Assets.java
				com/pushwoosh/HandleMessageWo
				rker.java
				com/pushwoosh/secure/crypt/mana
				ger/a/a.java
				com/pushwoosh/internal/crash/a.jav
				a
				com/pushwoosh/PushwooshPlatfor
				m.java com/lampa/startapp/startApp.java
				com/pushwoosh/internal/b.java
				com pashwoosh internal bijava

				com/pushwoosh/GDPRManager.java
NO	ISSUE	SEVERITY	STANDARDS	፫ሳኮ፫ S ushwoosh/PushwooshInitialize r.java
				com/pushwoosh/repository/c.java com/pushwoosh/notification/Summa ryNotificationFactory.java com/bumptech/glide/manager/Requ estTracker.java com/pushwoosh/notification/b.java com/pushwoosh/notification/b.java com/pushwoosh/glide/Glide.java com/duiply/cordova/saveimage/Save lmage.java com/bumptech/glide/load/engine/bit map_recycle/LruArrayPool.java com/bumptech/glide/load/resource/ gif/StreamGifDecoder.java com/pushwoosh/inapp/view/i/f.java com/pushwoosh/firebase/internal/re gistrar/FcmRegistrar.java com/pushwoosh/repository/i.java com/pushwoosh/repository/i.java com/pushwoosh/secure/Pushwoosh Secure.java com/pushwoosh/internal/platform/c /b.java com/pushwoosh/internal/platform/c /b.java com/pushwoosh/internal/utils/PWLo g.java com/pushwoosh/repository/g.java com/pushwoosh/repository/g.java com/pushwoosh/repository/g.java com/pushwoosh/repository/g.java com/bumptech/glide/load/resource/ gif/GifDrawableEncoder.java com/pushwoosh/d.java com/pushwoosh/internal/preference /PreferenceJsonObjectValue.java
2	This App may have root detection capabilities.	secure	CVSS V2: 0 (info) OWASP MASVS: MSTG-RESILIENCE-1	com/scottyab/rootbeer/RootBeer.jav a com/pushwoosh/internal/platform/u tils/a.java de/cyberkatze/iroot/IRoot.java
3	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	CVSS V2: 0 (info) OWASP MASVS: MSTG-STORAGE-10	com/verso/cordova/clipboard/Clipbo ard.java nl/xservices/plugins/SocialSharing.ja va
4	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CVSS V2: 7.4 (high) CWE: CWE-312 Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/bumptech/glide/load/Option.jav a com/bumptech/glide/manager/Requ estManagerRetriever.java com/bumptech/glide/load/engine/En gineResource.java com/bumptech/glide/load/engine/Re sourceCacheKey.java com/pushwoosh/plugin/geolocation/LocationPushesStorage.java com/bumptech/glide/load/engine/Da taCacheKey.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	warning	CVSS V2: 5.9 (medium) CWE: CWE-89 Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	com/pushwoosh/repository/InboxNo tificationStorageImpl.java com/pushwoosh/repository/LockScr eenMediaStorageImpl.java com/pushwoosh/repository/w.java com/pushwoosh/repository/PushBu ndleStorageImpl.java com/pushwoosh/internal/network/g. java com/pushwoosh/inbox/f/c/b.java com/pushwoosh/repository/c.java com/pushwoosh/repository/c.java com/pushwoosh/inapp/k/b.java
6	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	high	CVSS V2: 7.4 (high) CWE: CWE-649 Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	com/pushwoosh/secure/a/a.java com/cordova/plugin/android/fingerp rintauth/FingerprintAuth.java com/pushwoosh/internal/c/a.java
7	App can read/write to External Storage. Any App can read data written to External Storage.	high	CVSS V2: 5.5 (medium) CWE: CWE-276 Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	nl/xservices/plugins/SocialSharing.ja va com/darktalker/cordova/screenshot/ Screenshot.java com/pushwoosh/internal/platform/u tils/a.java com/quiply/cordova/saveimage/Save lmage.java
8	This App may request root (Super User) privileges.	high	CVSS V2: 0 (info) CWE: CWE-250 Execution with Unnecessary Privileges OWASP MASVS: MSTG-RESILIENCE-1	com/scottyab/rootbeer/Const.java
9	MD5 is a weak hash known to have hash collisions.	warning	CVSS V2: 7.4 (high) CWE: CWE-327 Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/pushwoosh/internal/platform/u tils/GeneralUtils.java com/pushwoosh/internal/utils/d.java
10	The App uses an insecure Random Number Generator.	warning	CVSS V2: 7.5 (high) CWE: CWE-330 Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	com/pushwoosh/internal/c/d.java
11	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	CVSS V2: 0 (info) OWASP MASVS: MSTG-NETWORK-4	com/pushwoosh/secure/crypt/mana ger/a/a.java



NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	lib/x86/libtool- checker.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.
2	lib/armeabi- v7a/libtool- checker.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	False high This shared object does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option - fstack- protector- all to enable stack canaries.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
3	lib/x86_64/libtool- checker.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	False high This shared object does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option - fstack- protector- all to enable stack canaries.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
4	lib/arm64- v8a/libtool- checker.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	False high This shared object does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option - fstack- protector- all to enable stack canaries.	No RELRO high This shared object does not have RELRO enabled. The entire GOT (.got and .got.plt both) are writable. Without this compiler flag, buffer overflows on a global variable can overwrite GOT entries. Use the option - z,relro,- z,now to enable full RELRO and only - z,relro to enable partial RELRO.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application invoke platform-provided DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application implement asymmetric key generation.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['location', 'network connectivity', 'camera'].
5	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
6	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has user/application initiated network communications.
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	FMT_MEC_EXT.1.1	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.
9	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.
10	FCS_RBG_EXT.2.1,FCS_RBG_EXT.2.2	Selection-Based Security Functional Requirements	Random Bit Generation from Application	The application perform all deterministic random bit generation (DRBG) services in accordance with NIST Special Publication 800-90A using Hash_DRBG. The deterministic RBG is seeded by an entropy source that accumulates entropy from a platform-based DRBG and a software-based noise source, with a minimum of 256 bits of entropy at least equal to the greatest security strength (according to NIST SP 800-57) of the keys and hashes that it will generate.
11	FCS_CKM.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Asymmetric Key Generation	The application generate asymmetric cryptographic keys not in accordance with FCS_CKM.1.1(1) using key generation algorithm RSA schemes and cryptographic key sizes of 1024-bit or lower.
12	FCS_COP.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Operation - Encryption/Decryption	The application perform encryption/decryption in accordance with a specified cryptographic algorithm AES-CBC (as defined in NIST SP 800-38A) mode or AES-GCM (as defined in NIST SP 800-38D) and cryptographic key sizes 256-bit/128-bit.
13	FCS_COP.1.1(2)	Selection-Based Security Functional Requirements	Cryptographic Operation - Hashing	The application perform cryptographic hashing services not in accordance with FCS_COP.1.1(2) and uses the cryptographic algorithm RC2/RC4/MD4/MD5.
14	FCS_HTTPS_EXT.1.1	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement the HTTPS protocol that complies with RFC 2818.
15	FCS_HTTPS_EXT.1.2	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement HTTPS using TLS.
16	FCS_HTTPS_EXT.1.3	Selection-Based Security Functional Requirements	HTTPS Protocol	The application notify the user and not establish the connection or request application authorization to establish the connection if the peer certificate is deemed invalid.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
17	FIA_X509_EXT.2.1	Selection-Based Security Functional Requirements	X.509 Certificate Authentication	The application use X.509v3 certificates as defined by RFC 5280 to support authentication for HTTPS , TLS.
18	FPT_TUD_EXT.2.1	Selection-Based Security Functional Requirements	Integrity for Installation and Update	The application shall be distributed using the format of the platform-supported package manager.

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
sdk.hockeyapp.net	good	IP: 40.70.164.17 Country: United States of America Region: Virginia City: Boydton Latitude: 36.667641 Longitude: -78.387497 View: Google Map
alinma-retail-mobile-v3.firebaseio.com	good	IP: 35.201.97.85 Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
cp.pushwoosh.com	good	IP: 88.198.239.120 Country: Germany Region: Bayern City: Nuremberg Latitude: 49.447781 Longitude: 11.068330 View: Google Map
post-log.pushwoosh.com	good	IP: 95.217.28.27 Country: Finland Region: Uusimaa City: Helsinki Latitude: 60.169521 Longitude: 24.935450 View: Google Map
pddstudio.com	good	IP: 46.30.215.43 Country: Denmark Region: Hovedstaden City: Copenhagen Latitude: 55.675941 Longitude: 12.565530 View: Google Map

DOMAIN	STATUS	GEOLOCATION
go.pushwoosh.com	good	IP: 88.198.239.122 Country: Germany Region: Bayern City: Nuremberg Latitude: 49.447781 Longitude: 11.068330 View: Google Map
docs.pushwoosh.com	good	IP: 104.18.1.145 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
api.whatsapp.com	good	IP: 31.13.69.60 Country: Italy Region: Sicilia City: Palermo Latitude: 38.115822 Longitude: 13.359760 View: Google Map
goo.gl	good	IP: 216.58.205.206 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
s.api.pushwoosh.com	good	IP: 88.198.239.115 Country: Germany Region: Bayern City: Nuremberg Latitude: 49.447781 Longitude: 11.068330 View: Google Map
github.com	good	IP: 140.82.121.3 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map



URL	FILE
data:image/ https://api.whatsapp.com/send?phone=	nl/xservices/plugins/SocialSharing.java
javascript:handleOpenURL('	de/martinreinhardt/cordova/plugins/urlhandler/LaunchMyApp .java
data:image	com/bumptech/glide/load/model/DataUrlLoader.java
file:///android_asset/	com/bumptech/glide/load/model/AssetUriLoader.java
data:image/jpeg;base64,	com/darktalker/cordova/screenshot/Screenshot.java
https://docs.pushwoosh.com/platform-docs/pushwoosh-sdk/android-push-notific ations	com/pushwoosh/PushwooshInitializer.java
https://sdk.hockeyapp.net/	com/pushwoosh/internal/crash/i.java
https://post-log.pushwoosh.com/	com/pushwoosh/internal/network/e.java
https://post-log.pushwoosh.com/	com/pushwoosh/internal/network/f.java
https://goo.gl/UVJKfp	com/pushwoosh/firebase/internal/checker/FirebaseChecker.ja va
https://go.pushwoosh.com/content/%s	com/pushwoosh/notification/handlers/notification/a.java
https://%s.api.pushwoosh.com/json/1.3/ https://cp.pushwoosh.com/json/1.3/	com/pushwoosh/repository/RegistrationPrefs.java
javascript:_pwCallbackHelper.invokeCallback(javascript:(function	com/pushwoosh/inapp/view/h/c.java
javascript:%s(); javascript:%s('%s');	com/pushwoosh/inapp/view/h/b.java
javascript:pwlnlinelnappSizeDelegate.resize(document.body.clientWidth,	com/pushwoosh/inapp/view/inline/c.java
https://alinma-retail-mobile-v3.firebaseio.com http://pddstudio.com/ https://github.com/PDDStudio/EncryptedPreferences	Android String Resource

FIREBASE DATABASES

FIREBASE URL	DETAILS
https://alinma-retail-mobile-v3.firebaseio.com	info App talks to a Firebase Database.



EMAIL	FILE
someone@domain.com	nl/xservices/plugins/SocialSharing.java

TRACKERS

TRACKER	CATEGORIES	URL
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49
Pushwoosh		https://reports.exodus-privacy.eu.org/trackers/39

HARDCODED SECRETS

POSSIBLE SECRETS "fingerprint_auth_dialog_title": "Fingerprint Authentication" "firebase_database_url": "https://alinma-retail-mobile-v3.firebaseio.com" "google_api_key": "AlzaSyA936t3BfGW_xD4ml1lAl_HrlFl6TpZo0Q" "google_crash_reporting_api_key": "AlzaSyA936t3BfGW_xD4ml1lAl_HrlFl6TpZo0Q" "library_EncryptedPreferences_author": "Patrick J" "library_EncryptedPreferences_authorWebsite": "http://pddstudio.com/"

App Security Score Calculation

Every app is given an ideal score of 100 to begin with.

For every findings with severity high we reduce 15 from the score.

For every findings with severity warning we reduce 10 from the score.

"fingerprint_auth_dialog_title" : "Autenticación de Huellas Digitales"

For every findings with severity good we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

Risk Calculation

APP SECURITY SCORE	RISK
0 - 15	CRITICAL
16 - 40	HIGH
41 - 70	MEDIUM

APP SECURITY SCORE	RISK
71 - 100	LOW

Report Generated by - MobSF v3.4.5 Beta

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

 $@\ 2021\ Mobile\ Security\ Framework\ -\ MobSF\ |\ \underline{Ajin\ Abraham}\ |\ \underline{OpenSecurity}.$