

ANDROID STATIC ANALYSIS REPORT



12Steps (1.1.7)

12 Steps_ Addiction Recovery_1.1.7_APKPure.xapk
com.twelve_steps.twelve_steps
Nov. 29, 2024, 4:42 a.m.
47/100 (MEDIUM RISK)
2/432

FINDINGS SEVERITY

ॠ HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
4	16	2	2	1

FILE INFORMATION

File Name: 12 Steps_ Addiction Recovery_1.1.7_APKPure.xapk

Size: 10.18MB

MD5: eb267511a5cd53a1a43a626271a4877a

SHA1: 88a9ea656e88022fac9f70cca120057342fde149

SHA256: 05cacd571a52d2e537deacb693bcdd41f975d7f77a57d5d857e1d7e25b7a1f82

i APP INFORMATION

App Name: 12Steps

Package Name: com.twelve_steps.twelve_steps

Main Activity: com.twelve_steps.twelve_steps.MainActivity

Target SDK: 34 Min SDK: 24 Max SDK:

Android Version Name: 1.1.7

APP COMPONENTS

Activities: 13 Services: 8 Receivers: 6 Providers: 5

Exported Activities: 3
Exported Services: 1
Exported Receivers: 3
Exported Providers: 0



Binary is signed v1 signature: False v2 signature: True v3 signature: True v4 signature: False

X.509 Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2023-06-09 02:19:14+00:00 Valid To: 2053-06-09 02:19:14+00:00

Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Serial Number: 0x25fa55d774baf5c932a5cfd98e9f7d9e30666959

Hash Algorithm: sha256

md5: 5f97fcc2d3517df1963fb55052fc56c2

sha1: abf2e8c11b0751012c65cc26e8df94efabe33e6b

sha256: 832544223d0e6b1bd77fc72a94758b54133f9984f8b0767655a7e9993ae60b29

sha512: ebfdb668413398cd74f6f5bbd3b01f38eb459b42082b61e844ea2c1da80886b2a90d4c2b8a446dd36d441e8dc25f6c43495e528629c7d93d4661f6be66848f6d

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: 50a7b167b420281ec8ce429e35d8aeacf4da6f80d247a989ef53aeda66c79beb

Found 1 unique certificates

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.RECORD_AUDIO	dangerous	record audio	Allows application to access the audio record path.
android.permission.MODIFY_AUDIO_SETTINGS	normal	change your audio settings	Allows application to modify global audio settings, such as volume and routing.
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
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.
android.permission.SCHEDULE_EXACT_ALARM	normal	permits exact alarm scheduling for background work.	Allows an app to use exact alarm scheduling APIs to perform timing sensitive background work.

PERMISSION	STATUS	INFO	DESCRIPTION

com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.
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	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
com.google.android.providers.gsf.permission.READ_GSERVICES	unknown	Unknown permission	Unknown permission from android reference
com.twelve_steps.twelve_steps.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
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.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
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

M APKID ANALYSIS

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

.E	DETAILS	DETAILS		
	FINDINGS	DETAILS		
classes2.dex	.dex Anti-VM Code	Build.HARDWARE check		
	Compiler	dx		
sses2.dex	7 that VW code			

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.twelve_steps.twelve_steps.MainActivity	Schemes: https://, Hosts: link.12steps.app, Path Prefixes: /1hlr,
com.aboutyou.dart_packages.sign_in_with_apple.SignInWithAppleCallback	Schemes: signinwithapple://, Paths: callback,
com.google.firebase.auth.internal.GenericIdpActivity	Schemes: genericidp://, Hosts: firebase.auth, Paths: /,
com.google.firebase.auth.internal.RecaptchaActivity	Schemes: recaptcha://, Hosts: firebase.auth, Paths: /,



CERTIFICATE ANALYSIS

HIGH: 0 | WARNING: 0 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

Q MANIFEST ANALYSIS

HIGH: 2 | WARNING: 7 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 7.0, [minSdk=24]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.

NO	ISSUE	SEVERITY	DESCRIPTION
2	Clear text traffic is Enabled For App [android:usesCleartextTraffic=true]	high	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.
3	Activity (com.aboutyou.dart_packages.sign_in_with_apple.SignInWithAppleCallback) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
4	Broadcast Receiver (io.flutter.plugins.firebase.messaging.FlutterFirebaseMessagingReceiver) 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]	warning	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.
5	Activity (com.google.firebase.auth.internal.GenericIdpActivity) is not Protected. [android:exported=true]		An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Activity (com.google.firebase.auth.internal.RecaptchaActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
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]	warning	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	Service (com.google.android.gms.auth.api.signin.RevocationBoundService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.signin.permission.REVOCATION_NOTIFICATION [android:exported=true]	warning	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.
9	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [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.

</> CODE ANALYSIS

HIGH: 2 | WARNING: 7 | INFO: 2 | SECURE: 1 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
				b1/f.java b1/m.java c4/r.java com/appsflyer/appsflyersdk/AppsflyerSdkPlugin. java com/appsflyer/internal/AFb1vSDK.java com/appsflyer/internal/AFc1qSDK.java com/appsflyer/internal/AFf1hSDK.java com/appsflyer/internal/AFf1pSDK.java com/appsflyer/internal/AFf1pSDK.java com/appsflyer/internal/AFf1pSDK.java com/appsflyer/internal/AFf1pSDK.java com/appsflyer/internal/AFf1pSDK.java com/appsflyer/internal/AFg1jSDK.java com/appsflyer/internal/AFg1jSDK.java com/dexterous/flutterlocalnotifications/ActionBr oadcastReceiver.java com/dexterous/flutterlocalnotifications/FlutterLo calNotificationsPlugin.java com/dexterous/flutterlocalnotifications/Schedule dNotificationReceiver.java com/pichillilorenzo/flutter_inappwebview_andro id/MyCookieManager.java com/pichillilorenzo/flutter_inappwebview_andro id/chrome_custom_tabs/ChromeCustomTabsActi vity.java com/pichillilorenzo/flutter_inappwebview_andro id/chrome_custom_tabs/CustomTabsHelper.java com/pichillilorenzo/flutter_inappwebview_andro id/content_blocker/ContentBlockerHandler.java com/pichillilorenzo/flutter_inappwebview_andro id/in_app_browser/InAppBrowserActivity.java com/pichillilorenzo/flutter_inappwebview_andro id/in_app_browser/InAppBrowserManager.java

NO	ISSUE	SEVERITY	STANDARDS	id/service_worker/ServiceWorkerManager.java com/pichillilorenzo/flutter_inappwebview_andro
NO	ISSUE	SEVERITY	STANDARDS	id/types/WebViewAssetLoaderExt.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/JavaScriptBridgeInterface.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/DisplayListenerPro xy.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/FlutterWebView.jav a com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebView.jav a com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewChr omeClient.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewClie nt.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewClie ntCompat.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewRen derProcessClient.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewRen derProcessClient.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InAppWebViewRen derProcessClient.java com/pichillilorenzo/flutter_inappwebview_andro id/webview/in_app_webview/InputAwareWebVie w.java
				d5/a.java d8/c.java e5/a.java e7/d0.java e7/g.java e7/g0.java e7/i0.java e7/k.java e7/y.java e8/f.java

				17/a.java
NO 1	ISSUE The App logs information. Sensitive	SEVERITY	STANDARD: Insertion of Sensitive	f8/agisva f8/c.java
·	information should never be logged.		OWASP MASVS: MSTG-STORAGE-3	g1/a.java
			OWASE MASVS. MIST G-STORAGE-S	g4/o.java
				g5/i.java
				g7/c.java
				g7/f.java
				i8/d.java
				io/flutter/plugins/firebase/crashlytics/n.java
				io/flutter/plugins/firebase/messaging/FlutterFire
				baseMessagingBackgroundService.java
				io/flutter/plugins/firebase/messaging/FlutterFire
				baseMessagingReceiver.java
				io/flutter/plugins/firebase/messaging/b.java
				io/flutter/plugins/firebase/messaging/i.java
				io/flutter/plugins/webviewflutter/f.java
				io/flutter/plugins/webviewflutter/o3.java
				j0/d.java
				j1/a.java
				j1/n.java
				j1/o.java
				j1/p.java
				k8/b.java
				k8/c.java
				n0/c.java
				n4/g.java
				n5/g.java
				o0/a.java
				o9/a.java p4/b.java
				p4/b0.java
				p4/c0.java
				p4/c0.java p4/d.java
				p4/k.java
				p4/u.java
				p4/w.java
				p4/y.java
				p8/d.java
				q9/e.java
				r1/k.java

				r9/1.java
NO	ISSUE	SEVERITY	STANDARDS	F/pl_ieg a
				s4/a.java
				s5/a1.java
				s5/b1.java
				s5/d0.java
				s5/e.java
				s5/g0.java
				s5/i0.java
				s5/j1.java
				s5/k0.java
				s5/m1.java
				s5/q0.java
				s5/u0.java
				s5/v1.java
				s5/x0.java
				s9/a.java
				s9/d0.java
				t5/f.java
				t5/n.java
				t9/i.java
				u/c.java
				u0/a.java
				u1/a.java
				u4/a.java
				u6/b.java
				v4/n.java
				v4/o.java
				v6/c.java
				v8/b.java
				w0/q.java
				w5/g.java
				x/c.java
				y0/a.java
				y0/e.java
				ya/c.java
				z5/r.java
				z7/a.java
				-

NO	ISSUE	SEVERITY	STANDARDS	FILES
2	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	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	com/pichillilorenzo/flutter_inappwebview_andro id/credential_database/CredentialDatabaseHelpe r.java h8/e.java y1/m0.java y1/t0.java
3	The App uses an insecure Random Number Generator.	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	com/appsflyer/internal/AFa1zSDK.java com/appsflyer/internal/AFb1hSDK.java com/appsflyer/internal/AFc1fSDK.java e3/w0.java h3/b.java ja/a.java
4	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	a3/a.java a6/b.java b6/e.java b6/w.java com/appsflyer/appsflyersdk/AppsFlyerConstants .java com/dexterous/flutterlocalnotifications/FlutterLo calNotificationsPlugin.java com/dexterous/flutterlocalnotifications/models/ NotificationDetails.java com/pichillilorenzo/flutter_inappwebview_andro id/credential_database/URLCredentialContract.ja va com/pichillilorenzo/flutter_inappwebview_andro id/types/ClientCertResponse.java com/pichillilorenzo/flutter_inappwebview_andro id/types/HttpAuthResponse.java com/pichillilorenzo/flutter_inappwebview_andro id/types/URLCredential.java s9/c0.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	r9/a.java r9/i.java
6	The file or SharedPreference is World Readable. Any App can read from the file	high Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2 CWE: CWE-649: Reliance on Obfuscation or Encryption mode (CS5/PKCS7 padding. This on is vulnerable to high) high Permissions OWASP Top 10: M2: Insecure Data Storage COM/appsflyer/internal		com/appsflyer/internal/AFb1vSDK.java
7	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.			j3/a.java
8	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	l3/b.java
9	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	u6/b.java
10	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	g5/w.java z5/i.java
11	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	k8/c.java m8/b.java u6/c.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
12	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	OWASP MASVS: MSTG-STORAGE-10	io/flutter/plugin/editing/b.java io/flutter/plugin/platform/d.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00014	Read file into a stream and put it into a JSON object	file	a6/f.java com/appsflyer/internal/AFg1nSDK.java g6/a.java u6/c.java

RULE ID	BEHAVIOUR LABEL		FILES	
00013	Read file and put it into a stream file		a6/f.java b0/m.java b4/d0.java b4/g.java com/appsflyer/internal/AFb1iSDK.java com/appsflyer/internal/AFg1nSDK.java com/dexterous/flutterlocalnotifications/FlutterLocalNotificationsPlugin.java com/pichillilorenzo/flutter_inappwebview_android/Util.java e6/e.java ea/k.java ea/m.java g6/a.java u6/c.java z5/a0.java	
00009	Put data in cursor to JSON object	file	h8/e.java	
00096	Connect to a URL and set request method	command network	b4/s.java com/appsflyer/internal/AFb1uSDK.java com/appsflyer/internal/AFd1mSDK.java com/appsflyer/internal/AFe1sSDK.java com/pichillilorenzo/flutter_inappwebview_android/Util.java i8/b.java v6/c.java	
00123	Save the response to JSON after connecting to the remote server		com/pichillilorenzo/flutter_inappwebview_android/Util.java	
00030	Connect to the remote server through the given URL network		b4/s.java com/appsflyer/internal/AFb1uSDK.java com/pichillilorenzo/flutter_inappwebview_android/Util.java	

RULE ID	BEHAVIOUR LABEL		FILES	
00094	Connect to a URL and read data from it	command network	b4/s.java com/pichillilorenzo/flutter_inappwebview_android/Util.java d6/a.java i8/b.java	
00091	Retrieve data from broadcast collection		com/appsflyer/internal/AFb1vSDK.java com/appsflyer/internal/AFc1jSDK.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/ActionBroad castReceiver.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/ChromeCust omTabsActivity.java com/pichillilorenzo/flutter_inappwebview_android/in_app_browser/InAppBrowserActi vity.java	
00089	Connect to a URL and receive input stream from the server	command network	b4/s.java com/appsflyer/internal/AFd1mSDK.java com/appsflyer/internal/AFe1sSDK.java i8/b.java v6/c.java	
00109	Connect to a URL and get the response code network command		b4/s.java com/appsflyer/internal/AFb1uSDK.java com/appsflyer/internal/AFd1mSDK.java com/appsflyer/internal/AFe1sSDK.java com/appsflyer/internal/AFf1oSDK.java i8/b.java n4/f.java v6/c.java	
00132	Query The ISO country code	telephony collection	c4/m0.java	

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/aboutyou/dart_packages/sign_in_with_apple/a.java com/appsflyer/internal/AFb1vSDK.java com/appsflyer/internal/AFc1cSDK.java com/appsflyer/internal/AFc1jSDK.java com/appsflyer/internal/AFc1jSDK.java com/appsflyer/internal/AFf1sSDK.java com/appsflyer/internal/AFf1sSDK.java com/dexterous/flutterlocalnotifications/FlutterLocalNotificationsPlugin.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/ChromeCust omTabsActivity.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/CustomTabs Helper.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/TrustedWeb Activity.java com/pichillilorenzo/flutter_inappwebview_android/in_app_browser/InAppBrowserMa nager.java j1/a.java j1/n.java j1/n.java j1/p.java me/leolin/shortcutbadger/impl/SonyHomeBadger.java p8/d.java s5/f1.java t9/h.java za/d.java

RULE ID	BEHAVIOUR	LABEL	FILES
00036	Get resource file from res/raw directory	reflection	b4/d0.java com/appsflyer/internal/AFb1vSDK.java com/appsflyer/internal/AFi1mSDK.java com/appsflyer/internal/AFi1sSDK.java com/dexterous/flutterlocalnotifications/FlutterLocalNotificationsPlugin.java com/pichillilorenzo/flutter_inappwebview_android/chrome_custom_tabs/CustomTabs Helper.java j1/a.java j1/n.java me/leolin/shortcutbadger/impl/NovaHomeBadger.java me/leolin/shortcutbadger/impl/SonyHomeBadger.java me/leolin/shortcutbadger/impl/a.java p8/d.java za/b.java za/c.java za/c.java
00056	Modify voice volume control		org/webrtc/audio/WebRtcAudioTrack.java org/webrtc/voiceengine/WebRtcAudioTrack.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData		com/aboutyou/dart_packages/sign_in_with_apple/a.java com/pichillilorenzo/flutter_inappwebview_android/in_app_browser/InAppBrowserMa nager.java j1/a.java j1/n.java j1/p.java t9/h.java
00022	Open a file from given absolute path of the file		a6/f.java b0/m.java com/appsflyer/internal/AFg1nSDK.java r9/i.java z8/f.java

RULE ID	BEHAVIOUR LABEL		FILES
00189	Get the content of a SMS message	sms	com/appsflyer/internal/AFi1oSDK.java me/leolin/shortcutbadger/impl/a.java
00188	Get the address of a SMS message	sms	com/appsflyer/internal/AFi1oSDK.java me/leolin/shortcutbadger/impl/a.java
00011	Query data from URI (SMS, CALLLOGS) sms calllog collection		com/appsflyer/internal/AFb1jSDK.java com/appsflyer/internal/AFi1oSDK.java com/appsflyer/internal/AFi1sSDK.java me/leolin/shortcutbadger/impl/a.java
00191	Get messages in the SMS inbox sms		com/appsflyer/internal/AFi1mSDK.java com/appsflyer/internal/AFi1oSDK.java com/appsflyer/internal/AFi1qSDK.java me/leolin/shortcutbadger/impl/a.java
00200	Query data from the contact list collection contact		com/appsflyer/internal/AFi1oSDK.java me/leolin/shortcutbadger/impl/a.java
00187	Query a URI and check the result collection sms calllog calendar		me/leolin/shortcutbadger/impl/a.java
00201	Query data from the call log collection calllog		com/appsflyer/internal/AFi1oSDK.java me/leolin/shortcutbadger/impl/a.java
00077	Read sensitive data(SMS, CALLLOG, etc) collection sms calllog calendar		com/appsflyer/internal/AFb1jSDK.java com/appsflyer/internal/AFi1oSDK.java com/appsflyer/internal/AFi1sSDK.java me/leolin/shortcutbadger/impl/a.java

RULE ID	BEHAVIOUR LABEL		FILES	
00161	Perform accessibility service action on accessibility node info	accessibility service	io/flutter/view/AccessibilityViewEmbedder.java io/flutter/view/c.java u/c.java	
00078	Get the network operator name	collection telephony	com/appsflyer/internal/AFh1cSDK.java h8/n.java	
00108	Read the input stream from given URL	network command	b4/s.java i8/b.java	
00199	Stop recording and release recording resources record		f8/c.java k8/b.java	
00198	Initialize the recorder and start recording		f8/c.java k8/b.java	
00194	Set the audio source (MIC) and recorded file format record		f8/c.java k8/b.java	
00197	Set the audio encoder and initialize the recorder	record	f8/c.java k8/b.java	
00196	Set the recorded file format and output path record file		f8/c.java k8/b.java	
00173	Get bounds in screen of an AccessibilityNodeInfo and perform accessibility service action		io/flutter/view/AccessibilityViewEmbedder.java u/c.java	
00003	Put the compressed bitmap data into JSON object camera		com/pichillilorenzo/flutter_inappwebview_android/webview/in_app_webview/InAppW ebView.java	

RULE ID	BEHAVIOUR LABEL		FILES	
00005	Get absolute path of file and put it to JSON object	file	a6/f.java com/appsflyer/internal/AFg1nSDK.java	
00209	Get pixels from the latest rendered image	collection	io/flutter/embedding/android/g.java	
00210	Copy pixels from the latest rendered image into a Bitmap		io/flutter/embedding/android/g.java	
00028	Read file from assets directory file		b4/c.java	
00192	Get messages in the SMS inbox sms		com/appsflyer/internal/AFb1jSDK.java	
00183	Get current camera parameters and change the setting.		org/webrtc/Camera1Session.java	
00208	Capture the contents of the device screen collection screen		org/webrtc/ScreenCapturerAndroid.java	
00202	Make a phone call	control	j1/p.java	
00203	Put a phone number into an intent	control	j1/p.java	
00102	Set the phone speaker on	command	co/daily/daily_flutter/AudioManager.java	



TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/681308934040/namespaces/firebase:fetch? key=AlzaSyArkUAumo_Mr8IA1RZib1H141ZL2viocB0. This is indicated by the response: {'state': 'NO_TEMPLATE'}

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	6/25	android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE, android.permission.RECORD_AUDIO, android.permission.VIBRATE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.WAKE_LOCK
Other Common Permissions	4/44	android.permission.MODIFY_AUDIO_SETTINGS, com.google.android.gms.permission.AD_ID, com.google.android.c2dm.permission.RECEIVE, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.

• OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COUNTRY/REGION
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Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
play.google.com	ok	IP: 216.58.209.174 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
schemas.microsoft.com	ok	IP: 13.107.246.45 Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map
dashif.org	ok	IP: 185.199.108.153 Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map

DOMAIN	STATUS	GEOLOCATION
firebase.google.com	ok	IP: 216.58.211.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
issuetracker.google.com	ok	IP: 216.58.210.174 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sattr.s	ok	No Geolocation information available.
slaunches.s	ok	No Geolocation information available.
docs.flutter.dev	ok	IP: 199.36.158.100 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
github.com	ok	IP: 140.82.121.4 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
scdn-ssettings.s	ok	No Geolocation information available.
www.w3.org	ok	IP: 104.18.22.19 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
sgcdsdk.s	ok	No Geolocation information available.
exoplayer.dev	ok	IP: 185.199.109.153 Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map
sadrevenue.s	ok	No Geolocation information available.
sars.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
simpression.s	ok	No Geolocation information available.
accounts.google.com	ok	IP: 108.177.14.84 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sonelink.s	ok	No Geolocation information available.
sconversions.s	ok	No Geolocation information available.
sregister.s	ok	No Geolocation information available.
sdlsdk.s	ok	No Geolocation information available.
svalidate.s	ok	No Geolocation information available.
ssdk-services.s	ok	No Geolocation information available.
www.example.com	ok	IP: 93.184.215.14 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.043720 Longitude: -77.487488 View: Google Map

DOMAIN	STATUS	GEOLOCATION
developer.apple.com	ok	IP: 17.253.39.206 Country: Sweden Region: Stockholms lan City: Stockholm Latitude: 59.332581 Longitude: 18.064899 View: Google Map
smonitorsdk.s	ok	No Geolocation information available.
ns.adobe.com	ok	No Geolocation information available.
aomedia.org	ok	IP: 185.199.109.153 Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map
developer.android.com	ok	IP: 216.58.209.174 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sapp.s	ok	No Geolocation information available.
sinapps.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
sviap.s	ok	No Geolocation information available.
api.mixpanel.com	ok	IP: 35.190.25.25 Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
scdn-stestsettings.s	ok	No Geolocation information available.
firebase-settings.crashlytics.com	ok	IP: 216.58.210.131 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

A TRACKERS

TRACKER	CATEGORIES	URL
AppsFlyer	Analytics	https://reports.exodus-privacy.eu.org/trackers/12
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27



POSSIBLE SECRETS

"google_api_key": "AlzaSyArkUAumo_Mr8IA1RZib1H141ZL2viocB0"

"google_crash_reporting_api_key": "AlzaSyArkUAumo_Mr8IA1RZib1H141ZL2viocB0"

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POSSIBLE SECRETS
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POSSIBLE SECRETS

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bae8e37fc83441b16034566b



Title: 12 Steps: Addiction Recovery

Score: 4.9 Installs: 10,000+ Price: 0 Android Version Support: Category: Health & Fitness Play Store URL: com.twelve steps.twelve steps

Developer Details: OpenRecovery, OpenRecovery, 42 Broadway, Suite 12-580 New York, NY 10004 USA, https://www.12steps.app, support@12steps.app,

Release Date: Aug 11, 2023 Privacy Policy: Privacy link

Description:

Welcome to 12 Steps: Addiction Recovery, an Al-powered platform featuring Kai, your personal Recovery Assistant, designed to support your journey through any 12-step program. Kai offers customized, adaptive guidance tailored to your unique path, respecting diverse beliefs and backgrounds in a supportive, ad-free environment. Whether your sponsor is unavailable or you're not ready to share with someone else, Kai is here to listen. Embrace Your Recovery Journey with tools crafted to meet you where you are—from starting out to maintaining long-term progress—ensuring support every step of the way. Key Features: • Kai, Your Al-Powered Recovery Assistant: Chat with Kai about any aspect of your recovery, receiving real-time, personalized support. Kai remembers important details like your sponsor's name and how you refer to your higher power, making your experience truly personal. Use voice interaction for inventories and step work, allowing natural, conversational engagement that helps you navigate challenging moments anytime you need. • Neutral Approach to Literature: Access 12-step content in a neutral style, supportive for any spiritual or religious background. • Personalized Content Recommendations: From account creation, receive tailored content based on your program and current step for relevant guidance from day one. • Steps Support: Access videos, readings, and templates for each step, providing structured tools to help you stay on track. • Customizable Content Feed: Stay motivated with daily inspiration that adapts to your emotions and goals, encouraging new habits and a positive lifestyle. • Accountability and Habit-Building Tools: Manage recurring actions with accountability features that strengthen relationships with sponsors and partners, reinforcing positive habits crucial to your journey. • Extensive Recovery Library: Explore resources like the AA Big Book, Twelve Steps and Twelve Traditions, program-specific prayers, and more to deepen your understanding. • Sobriety Tracking with Daycounts & Milestones

celebrate each accomplishment. • Interactive Inventory Templates: Engage in self-reflection with Step 4 and Step 10 templates, addressing patterns and behaviors in a structured way. • Spot Checks: Quickly assess your emotional state with instant spot checks, receiving personalized suggestions to manage everyday challenges. • Dynamic Action Planner: Define your readiness and motivation for change. Kai offers customized daily action suggestions and lets you add personal tasks to support your growth. Supported Programs Include: • AA - Alcoholics Anonymous • ACA - Adult Children of Alcoholics • Al-Anon / Alateen • CA - Cocaine Anonymous • Co-Anon • CoDA - Co-Dependents Anonymous • COSLAA - Co-Sex and Love Addicts Anonymous • DA - Debtors Anonymous • EA - Emotions Anonymous • Gam-Anon / Gam-A-Teen • GA - Gamblers Anonymous • HA - Heroin Anonymous • NA - Narcotics Anonymous • Nar-Anon • OA - Overeaters Anonymous • SA - Sexaholics Anonymous • SAA - Sex Addicts Anonymous • SCA - Sexual Compulsives Anonymous • SLAA - Sex and Love Addicts Anonymous • RA - Rageaholics Anonymous • UA - Underearners Anonymous • WA - Workaholics Anonymous • MA - Marijuana Anonymous • CMA - Crystal Meth Anonymous 12 Steps: Addiction Recovery is your companion on this journey, offering support every step of the way. Join a community where milestones are celebrated, and challenges are met with understanding, empathy, and actionable insights through Kai's guidance.

∷ SCAN LOGS

Timestamp	Event	Error
2024-11-29 04:42:27	Generating Hashes	ОК
2024-11-29 04:42:27	Extracting APK	ОК
2024-11-29 04:42:27	Unzipping	ОК
2024-11-29 04:42:27	Parsing APK with androguard	ОК
2024-11-29 04:42:28	Extracting APK features using aapt/aapt2	ОК
2024-11-29 04:42:28	Getting Hardcoded Certificates/Keystores	ОК

2024-11-29 04:42:33	Parsing AndroidManifest.xml	ОК
2024-11-29 04:42:33	Extracting Manifest Data	ОК
2024-11-29 04:42:33	Manifest Analysis Started	ОК
2024-11-29 04:42:33	Performing Static Analysis on: 12Steps (com.twelve_steps.twelve_steps)	ОК
2024-11-29 04:42:33	Fetching Details from Play Store: com.twelve_steps.twelve_steps	ОК
2024-11-29 04:42:33	Checking for Malware Permissions	OK
2024-11-29 04:42:33	Fetching icon path	ОК
2024-11-29 04:42:33	Library Binary Analysis Started	OK
2024-11-29 04:42:33	Reading Code Signing Certificate	ОК
2024-11-29 04:42:34	Running APKiD 2.1.5	ОК
2024-11-29 04:42:38	Detecting Trackers	ОК

2024-11-29 04:42:41	Decompiling APK to Java with JADX	ОК
2024-11-29 04:43:24	Converting DEX to Smali	ОК
2024-11-29 04:43:24	Code Analysis Started on - java_source	ОК
2024-11-29 04:43:27	Android SBOM Analysis Completed	ОК
2024-11-29 04:44:06	Android SAST Completed	ОК
2024-11-29 04:44:06	Android API Analysis Started	ОК
2024-11-29 04:44:45	Android API Analysis Completed	ОК
2024-11-29 04:44:46	Android Permission Mapping Started	ОК
2024-11-29 04:45:21	Android Permission Mapping Completed	ОК
2024-11-29 04:45:21	Android Behaviour Analysis Started	ОК
2024-11-29 04:45:28	Android Behaviour Analysis Completed	ОК

2024-11-29 04:45:28	Extracting Emails and URLs from Source Code	
2024-11-29 04:45:32	Email and URL Extraction Completed	ОК
2024-11-29 04:45:32	Extracting String data from APK	ОК
2024-11-29 04:45:32	Extracting String data from Code	ОК
2024-11-29 04:45:32	Extracting String values and entropies from Code	ОК
2024-11-29 04:45:35	Performing Malware check on extracted domains	ОК
2024-11-29 04:45:37	Saving to Database	ОК
2024-11-29 04:47:21	Unzipping	ок
2024-11-29 04:59:06	Unzipping	ОК

Report Generated by - MobSF v4.2.8 $\,$

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.

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