ANDROID STATIC ANALYSIS REPORT

🤖 COVID-19 Case Investigation (1.16)

File Name:	COVID-19 Case Investigation 1.16.apk
Package Name:	com.NICD.contactTracer
Average CVSS Score:	5.4
App Security Score:	50/100 (MEDIUM RISK)
Trackers Detection:	1/285

📦 FILE INFORMATION

File Name: COVID-19 Case Investigation 1.16.apk
Size: 14.33MB
MD5: 01a26a4a29a82a0a3ccbf0177f8bb38b
SHA1: 4d54198d76497521f4cff22b8d807d9b354e97e0
SHA256: ea81fc3ff0e7609912d09b03ece2841e956d755fca4c74ee2e08e0d74f110e36

ⓘ APP INFORMATION

App Name: COVID-19 Case Investigation
Package Name: com.NICD.contactTracer
Main Activity: crc6424c29e8ba0e179ea.SplashActivity
Target SDK: 28
Min SDK: 23
Max SDK:
Android Version Name: 1.16
Android Version Code: 17

▨ APP COMPONENTS

Activities: 17
Services: 5
Receivers: 4
Providers: 2
Exported Activities: 0
Exported Services: 2
Exported Receivers: 2
Exported Providers: 0

✿ CERTIFICATE INFORMATION

APK is signed
v1 signature: True
v2 signature: True
v3 signature: False
Found 1 unique certificates
Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2020-03-19 10:17:39+00:00
Valid To: 2050-03-19 10:17:39+00:00
Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Serial Number: 0x974625b842f045aafa968c354463f4a7df758054
Hash Algorithm: sha256
md5: 1f268f4f0ced5b960efbc3ec8c885787
sha1: 6f8389376c9e3869d85e4e11cae1724db1102645
sha256: 74505f260d0cc2ec96628f6570486e78ea7e226113bb269187fba567e5e497e1

sha512:
37b584ae147e7858f5de51665d83dd575781e4b9135ba1dd7fa7c515b8e8cc6e98ffac76c4223ffdabcad31378a52ca634433862999489c3be91108dae4ebca6

PublicKey Algorithm: rsa
Bit Size: 4096
Fingerprint: 1d598693d601196f9ee6b3f177fc728d138f0d861d994a49b0e941be7fb5a645

Certificate Status: Good
Description: Certificate looks good.

APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
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.INTERNET	dangerous	full Internet access	Allows an application to create network sockets.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read SD card contents	Allows an application to read from SD Card.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete SD card contents	Allows an application to write to the SD card.
android.permission.WAKE_LOCK	dangerous	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

PERMISSION	STATUS	INFO	DESCRIPTION
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.google.android.c2dm.permission.RECEIVE	signature	C2DM permissions	Permission for cloud to device messaging.

🔍 APKID ANALYSIS

FILE	DETAILS	
classes.dex	**FINDINGS**	**DETAILS**
	Compiler	dx

🔍 MANIFEST ANALYSIS

ISSUE	SEVERITY	DESCRIPTION
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.
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.

ISSUE	SEVERITY	DESCRIPTION
Service (com.google.firebase.iid.FirebaseInstanceIdService) is not Protected. [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.
Service (com.google.firebase.messaging.FirebaseMessagingService) is not Protected. [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.

</> CODE ANALYSIS

ISSUE	SEVERITY	STANDARDS	FILES
			crc646acbd0515738a876/HostnameVerifier.java crc64a0e0a82d0db9a07d/ActivityLifecycleContextListener.java crc64a0e0a82d0db9a07d/MagnetometerListener.java crc64a0e0a82d0db9a07d/SensorListener.java crc64a0e0a82d0db9a07d/AccelerometerListener.java crc64a0e0a82d0db9a07d/BarometerListener.java crc64a0e0a82d0db9a07d/SingleLocationListener.java crc64a0e0a82d0db9a07d/TextToSpeechImplementation.java crc64a0e0a82d0db9a07d/OrientationSensorListener.java crc64a0e0a82d0db9a07d/GyroscopeListener.java android/app/ActivityTracker.java android/runtime/XmlReaderPullParser.java android/runtime/XmlReaderResourceParser.java android/runtime/UncaughtExceptionHandler.java mono/java/lang/RunnableImplementor.java mono/java/lang/Runnable.java mono/javax/xml/transform/ErrorListenerImplementor.java mono/android/TypeManager.java mono/android/se/omapi/SEService_OnConnectedListenerImplementor.java mono/android/drm/DrmManagerClient_OnEventListenerImplementor.java mono/android/drm/DrmManagerClient_OnInfoListenerImplementor.java mono/android/drm/DrmManagerClient_OnErrorListenerImplementor.java mono/android/database/sqlite/SQLiteTransactionListenerImplementor.java mono/android/transition/Transition_TransitionListenerImplementor.java mono/android/webkit/DownloadListenerImplementor.java mono/android/webkit/WebView_FindListenerImplementor.java mono/android/webkit/WebIconDatabase_IconListenerImplementor.java mono/android/webkit/WebView_PictureListenerImplementor.java mono/android/hardware/SensorListenerImplementor.java

ISSUE	SEVERITY	STANDARDS	FILES
			mono/android/hardware/SensorEventListenerImplementor.java
			mono/android/hardware/Camera_FaceDetectionListenerImplementor.java
			mono/android/hardware/Camera_OnZoomChangeListenerImplementor.java
			mono/android/hardware/input/InputManager_InputDeviceListenerImplementor.java
			mono/android/hardware/display/DisplayManager_DisplayListenerImplementor.java
			mono/android/net/ConnectivityManager_OnNetworkActiveListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_DnsSdTxtRecordListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_ChannelListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_DnsSdServiceResponseListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_GroupInfoListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_ServiceResponseListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_PeerListListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_ConnectionInfoListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_UpnpServiceResponseListenerImplementor.java
			mono/android/net/wifi/p2p/WifiP2pManager_ActionListenerImplementor.java
			mono/android/net/sip/SipRegistrationListenerImplementor.java
			mono/android/net/nsd/NsdManager_ResolveListenerImplementor.java
			mono/android/net/nsd/NsdManager_RegistrationListenerImplementor.java
			mono/android/net/nsd/NsdManager_DiscoveryListenerImplementor.java
			mono/android/app/ActionBar_TabListenerImplementor.java
			mono/android/app/SharedElementCallback_OnSharedElementsReadyListenerImplementor.java
			mono/android/app/ActionBar_OnMenuVisibilityListenerImplementor.java
			mono/android/app/AppOpsManager_OnOpChangedListenerImplementor.java
			mono/android/app/FragmentManager_OnBackStackChangedListenerImplementor.java
			mono/android/app/AlarmManager_OnAlarmListenerImplementor.java
			mono/android/app/TimePickerDialog_OnTimeSetListenerImplementor.java
			mono/android/app/DatePickerDialog_OnDateSetListenerImplementor.java
			mono/android/app/TabEventDispatcher.java
			mono/android/app/FragmentBreadCrumbs_OnBreadCrumbClickListenerImplementor.java
			mono/android/app/SearchManager_OnDismissListenerImplementor.java
			mono/android/app/ActionBar_OnNavigationListenerImplementor.java
			mono/android/app/Application_OnProvideAssistDataListenerImplementor.java
			mono/android/app/SearchManager_OnCancelListenerImplementor.java

ISSUE	SEVERITY	STANDARDS	FILES
			mono/android/app/UiAutomation_OnAccessibilityEventListenerImplementor.java
			mono/android/app/WallpaperManager_OnColorsChangedListenerImplementor.java
			mono/android/app/admin/DevicePolicyManager_OnClearApplicationUserDataListenerImplementor.java
			mono/android/widget/AbsListView_RecyclerListenerImplementor.java
			mono/android/widget/AdapterView_OnItemClickListenerImplementor.java
			mono/android/widget/TabHost_OnTabChangeListenerImplementor.java
			mono/android/widget/SearchView_OnCloseListenerImplementor.java
			mono/android/widget/Chronometer_OnChronometerTickListenerImplementor.java
			mono/android/widget/SeekBar_OnSeekBarChangeListenerImplementor.java
			mono/android/widget/DatePicker_OnDateChangedListenerImplementor.java
			mono/android/widget/TextView_OnEditorActionListenerImplementor.java
			mono/android/widget/Filter_FilterListenerImplementor.java
			mono/android/widget/CalendarView_OnDateChangeListenerImplementor.java
			mono/android/widget/ActionMenuView_OnMenuItemClickListenerImplementor.java
			mono/android/widget/CompoundButton_OnCheckedChangeListenerImplementor.java
			mono/android/widget/RatingBar_OnRatingBarChangeListenerImplementor.java
			mono/android/widget/AutoCompleteTextView_OnDismissListenerImplementor.java
			mono/android/widget/SearchView_OnQueryTextListenerImplementor.java
			mono/android/widget/ExpandableListView_OnGroupExpandListenerImplementor.java
			mono/android/widget/AbsListView_OnScrollListenerImplementor.java
			mono/android/widget/ExpandableListView_OnGroupCollapseListenerImplementor.java
			mono/android/widget/ZoomButtonsController_OnZoomListenerImplementor.java
			mono/android/widget/NumberPicker_OnValueChangeListenerImplementor.java
			mono/android/widget/AdapterView_OnItemSelectedListenerImplementor.java
			mono/android/widget/PopupWindow_OnDismissListenerImplementor.java
			mono/android/widget/PopupMenu_OnDismissListenerImplementor.java
			mono/android/widget/NumberPicker_OnScrollListenerImplementor.java
			mono/android/widget/Toolbar_OnMenuItemClickListenerImplementor.java
			mono/android/widget/ExpandableListView_OnChildClickListenerImplementor.java
			mono/android/widget/ExpandableListView_OnGroupClickListenerImplementor.java
			mono/android/widget/AdapterView_OnItemLongClickListenerImplementor.java
			mono/android/widget/SearchView_OnSuggestionListenerImplementor.java
			mono/android/widget/PopupMenu_OnMenuItemClickListenerImplementor.java

ISSUE	SEVERITY	STANDARDS	FILES
			tenerImplementor.java mono/android/widget/RadioGroup_OnCheckedChangeListenerImplementor.java
			mono/android/widget/SlidingDrawer_OnDrawerScrollListenerImplementor.java
			mono/android/widget/SlidingDrawer_OnDrawerCloseListenerImplementor.java
			mono/android/widget/SlidingDrawer_OnDrawerOpenListenerImplementor.java
			mono/android/widget/ShareActionProvider_OnShareTargetSelectedListenerImplementor.java
			mono/android/widget/TimePicker_OnTimeChangedListenerImplementor.java
			mono/android/sax/EndElementListenerImplementor.java
			mono/android/sax/StartElementListenerImplementor.java
			mono/android/sax/EndTextElementListenerImplementor.java
			mono/android/location/GpsStatus_ListenerImplementor.java
			mono/android/location/OnNmeaMessageListenerImplementor.java
			mono/android/location/GpsStatus_NmeaListenerImplementor.java
			mono/android/location/LocationListenerImplementor.java
			mono/android/inputmethodservice/KeyboardView_OnKeyboardActionListenerImplementor.java
			mono/android/animation/ValueAnimator_AnimatorUpdateListenerImplementor.java
			mono/android/animation/Animator_AnimatorPauseListenerImplementor.java
			mono/android/animation/Animator_AnimatorListenerImplementor.java
			mono/android/animation/LayoutTransition_TransitionListenerImplementor.java
			mono/android/animation/AnimatorEventDispatcher.java
			mono/android/animation/TimeAnimator_TimeListenerImplementor.java
			mono/android/speech/RecognitionListenerImplementor.java
			mono/android/speech/tts/TextToSpeech_OnUtteranceCompletedListenerImplementor.java
			mono/android/speech/tts/TextToSpeech_OnInitListenerImplementor.java
			mono/android/preference/PreferenceManager_OnActivityResultListenerImplementor.java
			mono/android/preference/PreferenceManager_OnActivityStopListenerImplementor.java
			mono/android/preference/Preference_OnPreferenceClickListenerImplementor.java
IP Address disclosure	warning	**CVSS V2:** 4.3 (medium) **CWE:** CWE-200 - Exposure of Sensitive Information to an Unauthorized Actor **OWASP MASVS:** MSTG-CODE-2	mono/android/preference/Preference_OnPreferenceChangeListenerImplementor.java
			mono/android/preference/PreferenceManager_OnActivityDestroyListenerImplementor.java
			mono/android/accounts/OnAccountsUpdateListenerImplementor.java
			mono/android/gesture/GestureOverlayView_OnGestureListenerImplementor.java
			mono/android/gesture/GestureOverlayView_OnGesturePerformedListenerImplementor.java
			mono/android/gesture/GestureOverlayView_OnGesturingListenerImplementor.java
			mono/android/nfc/NfcAdapter_OnTagRemovedListenerImplementor.java
			mono/android/bluetooth/BluetoothProfile_ServiceListen

ISSUE	SEVERITY	STANDARDS	FILES
			erImplementor.java mono/android/view/ViewTreeObserver_OnScrollChangedListenerImplementor.java mono/android/view/ViewGroup_OnHierarchyChangeListenerImplementor.java mono/android/view/View_OnHoverListenerImplementor.java mono/android/view/MenuItem_OnActionExpandListenerImplementor.java mono/android/view/ViewTreeObserver_OnGlobalFocusChangeListenerImplementor.java mono/android/view/ActionProvider_VisibilityListenerImplementor.java mono/android/view/View_OnTouchListenerImplementor.java mono/android/view/ViewTreeObserver_OnPreDrawListenerImplementor.java mono/android/view/ViewTreeObserver_OnWindowAttachListenerImplementor.java mono/android/view/MenuItem_OnMenuItemClickListenerImplementor.java mono/android/view/View_OnApplyWindowInsetsListenerImplementor.java mono/android/view/View_OnKeyListenerImplementor.java mono/android/view/GestureDetector_OnDoubleTapListenerImplementor.java mono/android/view/View_OnFocusChangeListenerImplementor.java mono/android/view/View_OnContextClickListenerImplementor.java mono/android/view/View_OnAttachStateChangeListenerImplementor.java mono/android/view/GestureDetector_OnContextClickListenerImplementor.java mono/android/view/TextureView_SurfaceTextureListenerImplementor.java mono/android/view/View_OnUnhandledKeyEventListenerImplementor.java mono/android/view/View_OnScrollChangeListenerImplementor.java mono/android/view/GestureDetector_OnGestureListenerImplementor.java mono/android/view/ViewTreeObserver_OnTouchModeChangeListenerImplementor.java mono/android/view/View_OnCapturedPointerListenerImplementor.java mono/android/view/View_OnCreateContextMenuListenerImplementor.java mono/android/view/Window_OnFrameMetricsAvailableListenerImplementor.java mono/android/view/ViewTreeObserver_OnDrawListenerImplementor.java mono/android/view/Window_OnRestrictedCaptionAreaChangedListenerImplementor.java mono/android/view/ScaleGestureDetector_OnScaleGestureListenerImplementor.java mono/android/view/PixelCopy_OnPixelCopyFinishedListenerImplementor.java mono/android/view/View_OnDragListenerImplementor.java mono/android/view/View_OnLayoutChangeListenerImplementor.java mono/android/view/ViewStub_OnInflateListenerImplementor.java

ISSUE	SEVERITY	STANDARDS	FILES
			mono/android/view/ViewTreeObserver_OnWindowFocusChangeListenerImplementor.java
			mono/android/view/View_OnGenericMotionListenerImplementor.java
			mono/android/view/View_OnClickListenerImplementor.java
			mono/android/view/ViewTreeObserver_OnGlobalLayoutListenerImplementor.java
			mono/android/view/View_OnLongClickListenerImplementor.java
			mono/android/view/View_OnSystemUiVisibilityChangeListenerImplementor.java
			mono/android/view/textservice/SpellCheckerSession_SpellCheckerSessionListenerImplementor.java
			mono/android/view/animation/Animation_AnimationListenerImplementor.java
			mono/android/view/accessibility/AccessibilityManager_TouchExplorationStateChangeListenerImplementor.java
			mono/android/view/accessibility/AccessibilityManager_AccessibilityStateChangeListenerImplementor.java
			mono/android/accessibilityservice/AccessibilityService_SoftKeyboardController_OnShowModeChangedListenerImplementor.java
			mono/android/accessibilityservice/AccessibilityService_MagnificationController_OnMagnificationChangedListenerImplementor.java
			mono/android/os/ActionHandlerCallback.java
			mono/android/os/MessageQueue_OnFileDescriptorEventListenerImplementor.java
			mono/android/os/ParcelFileDescriptor_OnCloseListenerImplementor.java
			mono/android/os/CancellationSignal_OnCancelListenerImplementor.java
			mono/android/os/RecoverySystem_ProgressListenerImplementor.java
			mono/android/os/StrictMode_OnThreadViolationListenerImplementor.java
			mono/android/os/StrictMode_OnVmViolationListenerImplementor.java
			mono/android/text/TextWatcherImplementor.java
			mono/android/graphics/ImageDecoder_OnHeaderDecodedListenerImplementor.java
			mono/android/graphics/ImageDecoder_OnPartialImageListenerImplementor.java
			mono/android/graphics/SurfaceTexture_OnFrameAvailableListenerImplementor.java
			mono/android/graphics/drawable/Icon_OnDrawableLoadedListenerImplementor.java
			mono/android/renderscript/Allocation_OnBufferAvailableListenerImplementor.java
			mono/android/media/AudioRecord_OnRoutingChangedListenerImplementor.java
			mono/android/media/AudioTrack_OnPlaybackPositionUpdateListenerImplementor.java
			mono/android/media/MediaPlayer_OnTimedTextListenerImplementor.java
			mono/android/media/MediaScannerConnection_OnScanCompletedListenerImplementor.java
			mono/android/media/MediaRecorder_OnErrorListenerImplementor.java
			mono/android/media/MediaPlayer_OnSubtitleDataListenerImplementor.java
			mono/android/media/MediaCodec_OnFrameRenderedListenerImplementor.java
			mono/android/media/SoundPool_OnLoadCompleteListe

ISSUE	SEVERITY	STANDARDS	FILES
			nerImplementor.java mono/android/media/MediaPlayer_OnBufferingUpdateListenerImplementor.java mono/android/media/AudioRecord_OnRecordPositionUpdateListenerImplementor.java mono/android/media/MediaCas_EventListenerImplementor.java mono/android/media/MediaRecorder_OnInfoListenerImplementor.java mono/android/media/AudioTrack_OnRoutingChangedListenerImplementor.java mono/android/media/MediaDrm_OnExpirationUpdateListenerImplementor.java mono/android/media/RemoteControlClient_OnGetPlaybackPositionListenerImplementor.java mono/android/media/AudioManager_OnAudioFocusChangeListenerImplementor.java mono/android/media/MediaPlayer_OnErrorListenerImplementor.java mono/android/media/MediaSync_OnErrorListenerImplementor.java mono/android/media/ImageWriter_OnImageReleasedListenerImplementor.java mono/android/media/MediaPlayer_OnMediaTimeDiscontinuityListenerImplementor.java mono/android/media/MediaPlayer_OnPreparedListenerImplementor.java mono/android/media/JetPlayer_OnJetEventListenerImplementor.java mono/android/media/ImageReader_OnImageAvailableListenerImplementor.java mono/android/media/MediaPlayer_OnDrmInfoListenerImplementor.java mono/android/media/MediaDrm_OnKeyStatusChangeListenerImplementor.java mono/android/media/MediaPlayer_OnInfoListenerImplementor.java mono/android/media/MediaPlayer_OnVideoSizeChangedListenerImplementor.java mono/android/media/MediaDrm_OnEventListenerImplementor.java mono/android/media/MediaPlayer_OnSeekCompleteListenerImplementor.java mono/android/media/RemoteControlClient_OnMetadataUpdateListenerImplementor.java mono/android/media/RemoteControlClient_OnPlaybackPositionUpdateListenerImplementor.java mono/android/media/MediaPlayer_OnTimedMetaDataAvailableListenerImplementor.java mono/android/media/MediaPlayer_OnCompletionListenerImplementor.java mono/android/media/MediaPlayer_OnDrmPreparedListenerImplementor.java mono/android/media/RemoteController_OnClientUpdateListenerImplementor.java mono/android/media/audiofx/BassBoost_OnParameterChangeListenerImplementor.java mono/android/media/audiofx/Equalizer_OnParameterChangeListenerImplementor.java mono/android/media/audiofx/Virtualizer_OnParameterChangeListenerImplementor.java mono/android/media/audiofx/AudioEffect_OnEnableStatusChangeListenerImplementor.java mono/android/media/audiofx/AudioEffect_OnControlStatusChangeListenerImplementor.java mono/android/media/audiofx/PresetReverb_OnParamet

ISSUE	SEVERITY	STANDARDS	FILES
			mono/android/media/audiofx/PresetReverb_OnParamet erChangeListenerImplementor.java mono/android/media/audiofx/EnvironmentalReverb_On ParameterChangeListenerImplementor.java mono/android/media/audiofx/Visualizer_OnDataCapture ListenerImplementor.java mono/android/media/midi/MidiManager_OnDeviceOpen edListenerImplementor.java mono/android/media/effect/EffectUpdateListenerImplem entor.java mono/android/media/tv/TvView_OnUnhandledInputEven tListenerImplementor.java mono/android/media/session/MediaSessionManager_On ActiveSessionsChangedListenerImplementor.java opentk_1_0/platform/android/AndroidGameView.java crc645223329f61c5a0cc/DatePickerFragment.java com/xamarin/java_interop/internal/JavaProxyThrowable. java com/xamarin/java_interop/internal/JavaProxyObject.java
MD5 is a weak hash known to have hash collisions.	high	**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	okio/Buffer.java
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	mono/MonoPackageManager.java
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	mono/android/incrementaldeployment/IncrementalClass Loader.java com/airbnb/lottie/LottieAnimationView.java com/airbnb/lottie/PerformanceTracker.java com/airbnb/lottie/utils/LogcatLogger.java com/tomergoldst/tooltips/ToolTipsManager.java

ISSUE	SEVERITY	STANDARDS	FILES
This App uses Java Hash Code. It's a weak hash function and should never be used in Secure Crypto Implementation.	warning	**CVSS V2:** 2.3 (low) **CWE:** CWE-327 - Use of a Broken or Risky Cryptographic Algorithm **OWASP MASVS:** MSTG-CRYPTO-4	com/airbnb/lottie/LottieDrawable.java com/airbnb/lottie/network/NetworkFetcher.java com/airbnb/lottie/parser/PolystarShapeParser.java com/airbnb/lottie/parser/ShapeTrimPathParser.java com/airbnb/lottie/parser/LayerParser.java com/airbnb/lottie/parser/ShapeDataParser.java com/airbnb/lottie/parser/FontCharacterParser.java com/airbnb/lottie/parser/KeyframesParser.java com/airbnb/lottie/parser/AnimatableTransformParser.java com/airbnb/lottie/parser/ContentModelParser.java com/airbnb/lottie/parser/ShapeStrokeParser.java com/airbnb/lottie/parser/ShapePathParser.java com/airbnb/lottie/parser/GradientStrokeParser.java com/airbnb/lottie/parser/MergePathsParser.java com/airbnb/lottie/parser/LottieCompositionParser.java com/airbnb/lottie/parser/AnimatablePathValueParser.java com/airbnb/lottie/parser/RepeaterParser.java com/airbnb/lottie/parser/GradientFillParser.java com/airbnb/lottie/parser/FontParser.java com/airbnb/lottie/parser/ShapeFillParser.java com/airbnb/lottie/parser/RectangleShapeParser.java com/airbnb/lottie/parser/KeyframeParser.java com/airbnb/lottie/parser/AnimatableTextPropertiesParser.java com/airbnb/lottie/parser/ShapeGroupParser.java com/airbnb/lottie/parser/MaskParser.java com/airbnb/lottie/parser/CircleShapeParser.java com/airbnb/lottie/parser/JsonUtils.java com/airbnb/lottie/parser/DocumentDataParser.java com/airbnb/lottie/model/MutablePair.java com/airbnb/lottie/model/DocumentData.java com/airbnb/lottie/model/FontCharacter.java

🔍 DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
nicd-contact-tracing.firebaseio.com	good	**IP:** 35.201.97.85 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map

🌐 URLS

URL	FILE
https://nicd-contact-tracing.firebaseio.com	Android String Resource

🗄 FIREBASE DATABASES

FIREBASE URL	DETAILS
https://nicd-contact-tracing.firebaseio.com	info App talks to a Firebase Database.

🕵 TRACKERS

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

▶ PLAYSTORE INFORMATION

Title: NICD COVID-19 Case Investigation

Score: 0.0 **Installs:** 100+ **Price:** 0 **Android Version Support:** 6.0 and up **Category:** Medical **Play Store URL:** com.NICD.contactTracer

Developer Details: National Institute For Communicable Diseases, National+Institute+For+Communicable+Diseases, 1 Modderfontein Road Sandringham Johannesburg 2192 Gauteng South Africa, http://www.nicd.ac.za, appsdev@nicd.ac.za,

Release Date: Mar 19, 2020 **Privacy Policy:** Privacy link

Description:

- Capture cases - Save contacts and Travel history of cases - Update cases

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.
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

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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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