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Android get current location in background service. Get location in background service android 11. Get location in background service android example. Android background location service example.

In this article, you will learn how to enable background location tracking permission on your Android phone. Step 1 - Enable background location tracking Google is placing new restrictions on which Android apps can track your location in the background on the recent upgrades of Android 10 & 11. If you need real-time GPS tracking on WooDelivery app, you must enable location tracking permission to "Allowed all the time" on your phone's Settings page. Please following the instructions on the link. Step 2 - Disable battery optimization, and turn on Auto-start option Some OEMs with their custom Android skins tend to go a bit overboard with the battery optimization. Besides the usual battery optimization that will reduce app activity in the, they come with certain managers that prevent apps from auto-starting or working in the background. Follow these steps to disable battery optimization and enable auto-start option: Navigate again to Settings > Apps and open WooDelivery app. Choose Battery optimization. Disable optimization for the app that's not providing you with notifications. If available, turn on the Auto-start option.. Step 3 - do not kill apps in the background Some Android manufacturers force stop location tracking when the app is on background in order to save battery life. Check if your device model is on dontkillmyapp list in the link: If your device's Android skin (Xiaomi MIUI, Huawei EMUI, Samsung One UI) has a manager that aggressively kills apps in the background, make sure to whitelist apps in order to allow WooDelivery track locations and send data in the background mode. Step 4 - restart your Android phone Note: If the phone's battery is below 20% then the phone's OS restricts all the background services. One of the bigger privacy issues in Android is the availability of location data. Users like certain types of apps, such as navigation assistants, knowing where the user is. Users do not like arbitrary use of location data, though, and various ad networks and malicious apps have been harvesting location data inappropriately. So, in Android 10, location access gets locked down even further than before. The change that will get the most attention is that there are new limitations on getting location data in the background. There are two main scenarios for this: The app had been in the foreground, but the user switches to another app. For example, the user might be using a navigation app but then receive a phone call, at which point the device UI switches to an in-call screen. Ideally, the navigation app will continue to receive location data, despite being (temporarily) in the background... but in Android 10, this requires a bit of additional work. The app is operating purely in the background (e.g., JobScheduler jobs) and wants to get the user's location. This requires an additional permission on Android 10. Your app might mostly need locations in the foreground, but its UI might be moved to the background based on user interactions. You might want to keep getting the location updates while your UI is not in the foreground, so when you do return to the foreground, you have up-to-date location data. The recommended pattern to make this work is to start a foreground service when your app moves to the background, where that service has android:foregroundServiceType="location" on its manifest element. Then, the service can continue receiving notification updates, even though the UI is not in the foreground. The LocationForeground sample module in the book's sample project illustrates this process. The app has an activity that displays the latitude, longitude, and fix time of the latest GPS fix. It gets those from a LocationRepository that exposes the location updates via LiveData: package com.commonware.android.q.loc.fg import android.Manifest import android.content.Context import android.content.pm.PackageManager import android.location.Location import android.location.LocationListener import android.location.LocationManager import android.os.Bundle import androidx.lifecycle.LiveData import androidx.lifecycle.MutableLiveData class LocationRepository(private val context: Context) { private val _locations = MutableLiveData() val locations: LiveData = _locations private var locationsRequested = false init { initRequest() } fun initRequest() { if (!locationsRequested) { val mgr = context.getSystemService(LocationManager::class.java) if (context.checkSelfPermission(Manifest.permission.ACCESS_FINE_LOCATION) == PackageManager.PERMISSION_GRANTED) { _locationsRequested = true mgr.requestLocationUpdates(LocationManager.GPS_PROVIDER, 0, 0f, object : LocationListener { override fun onLocationChanged(location: Location) { _locations.postValue(location) } override fun onStatusChanged(p0: String?, p1: Int, p2: Bundle?) { // unused } override fun onProviderEnabled(p0: String?) { // unused } override fun onProviderDisabled(p0: String?) { // unused } }) } } } The activity has a viewmodel that gets the LocationRepository (via Koin-supplied dependency injection), and the activity gets the data to provide to data binding from that viewmodel. This works great when the UI is in the foreground. However, we also want to ensure that LocationRepository can continue getting location data when the UI moves to the background. For that, we have a ForegroundService. Not surprisingly, ForegroundService is a foreground service. It too gets the LocationRepository and dumps the latitude and longitude to Logcat: package com.commonware.android.q.loc.fg import android.app.Notification import android.app.NotificationChannel import android.app.NotificationManager import android.app.PendingIntent import android.content.BroadcastReceiver import android.content.Context import android.content.Intent import android.os.Build import android.util.Log import androidx.core.app.NotificationCompat import androidx.lifecycle.Lifecycle.LifecycleService import androidx.lifecycle.Observer import org.koin.android.ext.android.inject private const val CHANNEL_WHATEVER = "channel whatever" private const val FOREGROUND_ID = 1338 class ForegroundService : LifecycleService() { private val repo: LocationRepository by inject() override fun onCreate() { super.onCreate() val mgr = getSystemService(NotificationManager::class.java)!! if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O && mgr.getNotificationChannel(CHANNEL_WHATEVER) == null) { mgr.createNotificationChannel(NotificationChannel(CHANNEL_WHATEVER, "Whatever", NotificationManager.IMPORTANCE_DEFAULT)) } startForeground(FOREGROUND_ID, buildForegroundNotification()) repo.locations.observe(this, Observer { Log.d("LocationForeground", "Latitude: \${it.latitude} Longitude: \${it.longitude}") }) } private fun buildForegroundNotification(): Notification { val pi = PendingIntent.getBroadcast(this, 1337, Intent(this, StopServiceReceiver::class.java), 0) val b = NotificationCompat.Builder(this, CHANNEL_WHATEVER).setOngoing(true).setContentTitle(getString(R.string.app_name)).setContentText(getString(R.string.notif_text)).setSmallIcon(R.drawable.ic_notification).setContentIntent(pi).return b.build() } class StopServiceReceiver : BroadcastReceiver() { override fun onReceive(context: Context, intent: Intent) { context.stopService(Intent(context, ForegroundService::class.java)) } } Its manifest entry has the new android:foregroundServiceType attribute (from LocationForeground/src/main/AndroidManifest.xml) This attribute is used to tell Android that the service: Will be a foreground service, and Will want to continue using some class of API (in this case, location) Then, to start and stop the service, we leverage ProcessLifecycleOwner from the Architecture Components. This lets us know when our UI comes to the foreground or moves to the background overall. In this case, we have only one activity, but most apps have more than one activity, so ProcessLifecycleOwner will be a better choice, as it reports the overall foreground/background status, not just for a single activity. So, our custom Application subclass (KoinApp), in addition to setting up Koin dependency injection, also registers a DefaultLifecycleObserver to find out about the UI state changes: package com.commonware.android.q.loc.fg import android.app.Application import android.content.Intent import androidx.lifecycle.DefaultLifecycleObserver import androidx.lifecycle.Lifecycle.LifecycleOwner import androidx.lifecycle.ProcessLifecycleOwner import org.koin.android.ext.android.startKoin import org.koin.android.ext.koin.androidContext import org.koin.androidx.viewmodel.ext.koin.viewModel import org.koin.dsl.module.module class KoinApp : Application() { private val koinModule = module { single { LocationRepository(androidContext()) } viewModel { MainMotor(get()) } } override fun onCreate() { super.onCreate() startKoin(this, listOf(koinModule)) ProcessLifecycleOwner.get().lifecycle.addObserver(object : DefaultLifecycleObserver { override fun onStart(owner: LifecycleOwner) { stopService(Intent(this@KoinApp, ForegroundService::class.java)) } override fun onStop(owner: LifecycleOwner) { startForegroundService(Intent(this@KoinApp, ForegroundService::class.java)) } }) } } When the UI moves to the background, we start the ForegroundService. When the UI moves to the foreground, we stop the ForegroundService (even if the service was not necessarily started, as stopService() does not crash or anything if you do that). This "run the service while the UI is in the background" approach works reasonably well... except that it always starts this service, which may include some times when the user does not really want it. For the purposes of the book sample, the notification itself will stop the service if the user clicks on it. A production-grade app may need greater sophistication here. However, for the purposes of the Android 10 problem, we are able to continue receiving location updates, even when our UI is no longer in the foreground. Doing work purely in the background is difficult on modern versions of Android, owing to all the changes related to Doze mode and similar features. Getting location data purely in the background already was a pain, as some of the preferred background options — such as WorkManager — do not integrate well with asynchronous APIs like we have with the location APIs. In light of that, Android 10's changes are not a big deal. There is a new permission, ACCESS_BACKGROUND_LOCATION, that you will need to request. This is a dangerous permission, so you not only need the element for it in the manifest, but you need to request it at runtime. Since you are already requesting ACCESS_COARSE_LOCATION or ACCESS_FINE_LOCATION, this additional permission just adds a bit of incremental code. The user winds up with three basic options in terms of granting rights to your app: Unfettered access to location "Only while the app is in use", which translates to "only while the app has UI in the foreground" No access at all The middle option will mean that your app will hold ACCESS_COARSE_LOCATION or ACCESS_FINE_LOCATION (whichever you requested) but not ACCESS_BACKGROUND_LOCATION. And, if you do not hold ACCESS_BACKGROUND_LOCATION, you cannot obtain location data from the background, unless you originally were getting the locations in the foreground, as we saw in the preceding section. However, this just means that your background code will need to check for this new permission and handle it the same as if the user revoked your ACCESS_COARSE_LOCATION or ACCESS_FINE_LOCATION rights. Once again, this adds a bit of additional code, and it adds a new scenario (foreground location access but not background location access), but it should not cause much significant harm to your app's functionality. Page 2 JPEG images can have EXIF metadata "tags". For example, one important one is orientation, indicating how the device was being held at the time the picture was taken. This allows image-viewing code to rotate the image as needed to properly orient it for viewing. "Geotagged" photos represent another set of EXIF tags. A camera app can elect to include location information in photos as tags. This enables a lot of interesting features and services, such as allowing a user to browse a photo gallery via a map instead of only chronologically. However, geotagged photos represent semi-intentional leaks of location information. For example, if a photo was created five minutes ago and has GPS coordinates, it is reasonable to think that the device is still in the general vicinity. This is less true of a photo created five months ago... but if there are a lot of photos in a similar area, there is a decent chance that the user lives in that area and is taking photos of local events. As a result, in Android 10, access to this information is much more restricted than it had been. At least, in theory it is. According to the documentation, EXIF data is supposed to be redacted when reading in images. However, that does not seem to be working, at least for: Files that you can access on the filesystem Content that you can access via the Storage Access Framework However, it does work, by default, for a Uri from the MediaStore. For example, consider this function: fun gimmeTehTags(image: Uri) { context.contentResolver.openInputStream(image)?.use { src -> val exif = ExifInterface(src) val location = exif.latLong } } We get a valid location for images that have those EXIF tags if the Uri: Has the file scheme (e.g., a file on the filesystem that you can access) Is from the Storage Access Framework By default, we get null if the Uri came from the MediaStore. However, we still can get the location information, even from the MediaStore. This requires two things, in theory: Your app needs to hold the ACCESS_MEDIA_LOCATION permission (which is dangerous and needs to go through runtime permissions) Your app needs to call MediaStore.setRequireOriginal(), supplying the Uri for which you would like the location — this method then returns a decorated Uri that can be used with openInputStream() Then, if you use openInputStream() for the setRequireOriginal()-supplied Uri, you will get a stream that includes the location EXIF tags. As part of indexing the images available on external storage, the MediaStore used to examine the EXIF headers and save location data. That could then be accessed by querying the MediaStore for MediaStore.Images.Media.LATITUDE and MediaStore.Images.Media.LONGITUDE values. However, that is not done on Android 10, and therefore you will be unable to obtain this data. This is not dependent upon targetSdkVersion — MediaStore simply does not seem to aggregate this data. As a result, your only option appears to be to get the Uri for each individual image and use ExifInterface, as shown above. This is far slower than obtaining the data directly from MediaStore, so ideally you are not attempting to get this data in bulk.

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