



Android versioncode best practices

Android 10:11 Giving users greater control over access to their apps to their positions of the devices. When an application on Android 11 requests access to the location, users have four options: Allow plenty of time allow only while using the app (Android 10) only just (Android 11) Deny Android 11 in this codelab, learn how to receive location updates and how to support the position on any version of Android, Android in particular 10 and 11. at the end of Codelab, you can expect to have an app that follows the current best practices for recovering position updates. Prerequisites What you will follow the best practices for the Android location. Manage permissions in the top position (when the user requests the location of the app to access to the location by adding logic to access the location in the foreground or in use. What you'll need Android 10:11 by adding logic to access the location in the foreground or in use. Studio 3.4 or later to run the code a device / emulator running a preview of the Android developer 10:11 To get started as quickly as possible, you can simply run the following command: git clone Feel free to go directly to the GitHub page. If you have git, you can get the project as a ZIP file: download the ZIP import project Android Open Studio, select "Open an existing Android project Studio" from the Welcome screen and open the project is loaded, you can also see a warning that no Git is monitoring all your local changes. You can click Ignore. (I will not be taking any changes to the Git repo.) In the upper left corner of the project window, you should see something like the image below if you are in the Android views. (If you are in the view of the project to see the same thing.) There are two folders (basic and complete). Each one is known as "form." Please note that Android Studio may take a few seconds to compile the project in the background for the first time. During this time, you see the following message in the status bar at the bottom of Android Studio: Wait Android Studio to pull in all the necessary components. If you get a prompt that tells you to charge for language changes to take effect? Or something like that, select Yes. Understanding the Starter project are set and ready to request the location in the app. Use the basic module as a starting point. During each step, add the code to the base module. full contents of the form. The completed form can be used to control your business or make reference if you encounter problems. Key components include the following indication: Mainactivity UI - UI for the user to allow the app to access the Location LocalService - service device that registers and cancels the changes to the position and promotes a foreground service (notified) if the user) emulator, see Run on an emulator. Run the start project Run your app. Connect your Android device to your computer or start an emulator. (Make sure the device is running Android 10 or higher.) In the toolbar, select the basic configuration from the drop-down selector and click Running: Warning The following app displayed on the device: you can notice that it is not displayed No information on the position updates, and eventually supporting Android 11. However, before starting the encoding, it makes sense to review the basics. Types of access to the location You can remember the four different options for access to the position from the beginning of the codeLab. Take a look at what they mean: Allow only while using the app This option has been added to Android 10 and allows developers to recover the position only while the app is actively used. An app is considered active if one of the following is true: a business is visible. A service in the foreground is running with a current notification. Once added only in Android 11, it's the same that only allows you to use the app, but for a limited time. For more information, see oneoff authorizations. Deny this option prevents access to location information. Allow as many time this option all the time, but requires a more permit for Android 10 and higher. You also need to make sure you have a valid use case and comply with localization policies. You will not cover this option in this codeLab, as it is a rare case of use. However, if you have a valid use case and you want to understand how to properly manage the position of all the time, including access to the background location, review the locationupdatedbackgroundkotlin sample. Services in the foreground and the link for support completely allow only when using the update of the App's position, you need to explain when the user naves from your app. If you want to continue receiving updates in that situation, you need to create a service to request location updates when your app is visible and when the user naves from your app, it is necessary to tie / dismiss this service to the UI element. As this codelab is concentrated only on the output of position updates, you can find all the code you need in the FermordylocationService.kt class. You can find all the code you need in the FermordylocationService to the UI element. restricted services. Permissions to receive position updates from a network provider or GPS PROVIDER, you need to request the user's permission by declaring the access to the location in runtime. These permissions only cover once and allow only while using app cases when your app is used on a device that runs Android 10 or higher. Location Providerclient This is the central component of the position framework. Once created, you use it to request for requests for requests for requests for requests for requests for requests for request position. LocationRequest This is a data object that contains quality parameters - requests for requests for requests for request position. updates. LocationCallback This is used to receive notifications when the location of the device has changed or cannot be determined. This has passed a locationresult where you can get the location to save in your database. Now that you're doing, start with the code! This CodeLab focuses on the most common position option: Allow only when using the app. To receive position updates, your app must have a visible activity or service running in the foreground (with a notification). Permissions, so that the permission-based code is already written for you. Feel free to jump if you are already understood that. The following are the salient authorization points (no action are required for this part): indicates that permission you use in the AndroidManifest.xml. Before attempting to access the place information, check if the user gave his app permit to do so. If the application has not yet received authorization, the required access. Handle user authorization choice. (You can see this code in the MainActivity.Kt.) If you are looking for TODO: Step 1.0, Reviewing permissions in AndroidManifest.xml or MainActivity.Kt.) If you are looking for TODO: Step 1.0, Reviewing permissions in AndroidManifest.xml or MainActivity.kt, you can see the whole code written for permissions. For more information, see Permissions in AndroidManifest.xml or MainActivity.kt.) location code. In the basic form, the search for todo: Step 1.1, the revision variables in the file foregroundonlylocationservice.kt. No action are needed at this stage. You just need to receive position updates. // TODO: Step 1.1, the REVIEW variables (no change). // FUSEDLocationProvidClient - Main class for receiving position updates. Private Lateinit Var FusedOcationRequest - Requirements for updates on the location, ie, as often yes // should receive updates, priority, etc. Private Lateinit Var LocationRequest - Requirements for updates on the location. LocationRequest // LocationCallback - Called when FusedLocationProvidClient has one New location. Usually, this would be saved on the database, but because this is a simplified example without a complete database, we only need the last position // to create a notification if the user moves away from the app. Private Var CurrentLocation: Location? = NULL REVIEW The initialization FusedOcationProviderclient in the file foregroundonlylocationservice.kt. The code should be similar to this: // todo: phase 1.2, revision of the fusedocationproviderclient. FusedLocationProviderclient = locationservices.getfusedCationProvidClient (this) As indicated in previous comments, this is the main class to get position updates. The variable is already initialized for you, but it is important to review the code to understand how it is initialized. It adds a certain code later for updates to the required position. Initialize the locationrequest in the file foregroundonlylocationservice.kt. Add the following code after comment. The LocationRequest initialization code adds the extra quality of service parameters necessary for your request (intervals, maximum waiting time, and priority). // TODO: Step 1.3, create a location request. location request = location request. create (). Apply {// Set the desired interval is inaccurate. A // It is not possible to receive updates to everyone if not localization sources are available, or you can receive them less frequently required. It is also possible to receive more frequently than // updates required if other applications are asking for a more frequently contained and higher devices (regardless of the TARGETSDKVERSION) can receive Less frequently of this interval when the // application is no longer in the foreground. Interval = timeunit.seconds.tomillis (60) // sets the fastest rate for active location updates are delivered. Updates can be delivered // before this interval. maxwaittime = timeunit.minutes.tomillis (2) (2) = LocationCallback in the base module, search for TODO: Step 1.4, initialize the locationCallback in the Preventalylocasservice.kt file. Add the following code after comment. // TODO: Step 1.4, initialize the locationCallback. LocationCallback = Object: LocationResult) // Normally, you want to save a new position in a database. We are simplifying // things a little and simply saving it as a local variable, as we only need new // if a notification is created (when the user naves from the app). CurrentLocation = LocationResult.lastlocation. Again, if this was a production app A //, the activity will listen to the changes to a database // with new positions, but we are simplifying things a little to focus on Just // by learning the side of the position content I this service is running as a service //. If (servicerunninginforeground) {notificationmanager.notifia (notification id, generateenotification (currentlocation))}} The locationResult object. After that, notify your new location activity using a local transmission (if it is active) or updates the notification if this service. Read the comments to understand what every part is. Now that you have initialized everything, you have to let the fusedocation provider client know you want to receive updates. In the base module, search for step 1.5, enrolling changes to the position in the first PianopolocationService.kt file. Add the following code after comment. // TODO: Step 1.5, subscribe to position changes. FusedLocationUpdates () calls, allows FussedLocationProviderclient to know that you want to receive position updates. Probably recognizable the locationProviderclient know the service for your request and what should be called when you have an update. Finally, the Looper object specifies the wire for callback. You can also note that this code is within a declaration attempt / capture. This method requires this block because a SecurityException occurs when your app has no permission to access location information. When the app no longer needs to access location information, it is important to cancel the registration from position updates. In the Base module, search for TODO: Step 1.6, cancel the registration to the position changes in the first plane plane file. Add the following code after comment. // TODO: Step 1.6, cancel the registration to the position changes in the first plane plane file. Removetask.AddOnCompletelanner {Task -> IF (task..sissuccessful) {Log.D (tag, "Callback position removed.") Stopself ()} Else {Log.D (tag, "Callback position removed.") Stopself ()} The RemovelOlocationUpdates () method sets a business to allow the Know that you no longer want to receive location updates for your positionCallback. AddOnCompletelistener () Provides callback to complete and execute the activity. As with the previous step, you may have noticed that this code is within a declaration attempt / capture. This method requires such a block because a a It occurs when your application does not have permission to access the location information you may be wondering when the methods that contain subscribe / unsubscribe code are called. They are activated â â in the main class when the user touches the button. If you want to see it, take a look at MainActivity.kt class. Run application from the Android Studio and try the position button. You should see the location information in the output screen. It is fully functional application for Android 9. Note: If you want to see, go to the app info window and remove the location permissions for the application. In this section, we add support for Android 10. Your application already subscribes to the position changes, so there's a lot of work to do. In fact, all you have to do is specify that the first plan is used for tracking purposes. Objective SDK 29 In the basic form, the search for TODO: Step 2.1, 10 and then 11. Target Android in build.gradle file. Making these changes: targetSdkVersion September to 29. The code would look like this: Android {// TODO: Step 2.1, Android Target 10 and then 11. Android compileSdkVersion 29 defaultconfig { "com.example.android.whileinuselocation" applicationID minSdkVersion 26 targetSdkVersion 29 versionCode 1 versionName "1.0"} ...} After you do this, you will be prompted to synchronize your project. Click Sync now. After that, your application is almost ready to Android 10. Add First floor Type of service 10 In Android, you are required to include the type of leading service if you need while in use on location access. In your case, it is used to obtain location information. In the basic form, the search for TODO: 2.2, Add the first type of service plan in AndroidManifest.xml and add the following code to the element: android: foregroundServiceType = "location", the code looks like this: ... This is everything! Your application from the Android 10 position button. Everything should work as before, but now works on Android 10. If you do not accept the permissions for the first position, you will see a new dialog box for location permissions. If you want to see, go to the application of the information screen and remove the location permissions for the application. In this section, we target Android 11. Great news, you need not make changes to any files, except for the build.gradle file. Make these changes: compileSdkVersion 30 to 30, the code looks like this: Android {TODO: Step 2.1, Target SDK in the build.gradle file. Make these changes to any files, except for the build.gradle file. Make these changes: compileSdkVersion 30 to 30, the code looks like this: Android {TODO: Step 2.1, Target SDK in the build.gradle file. Step 2.1, Android Target 10 and then 11. Android compileSdkVersion 30 defaultconfig {ApplicationID "com.example.android.whileinuselocation" minSdkVersion 26 targetSdkVersion 30 versionCode 1 versionName "1.0"} ... } After you do this, you will be to synchronize your project. Click Synchronize Now. After that, your application is ready for Android 11! Run Application Run your application from Android Studio and try clicking on the button. Everything should work as before, you should now see the permission screen! Note: If you have already accepted permissions, you will not see the new dialog box for localization permissions. If you want to see, go to the application information screen and remove the location permissions for the application can successfully hold track of your access level regarding the position of the device. This page lists some fundamental best practices related to localization permits. For more information on how to keep user data safe, see permissions only when needed. For example: do not require a position permit when startup application if not absolutely necessary. If your Android 10 app objectives or later and you have a leading service, declare a "location" foregroundserviceType in the manifesto. Do not require location in the background permissions unless you have a valid case of use as described in the most secure and more transparent access to the user position. Supporting graceful degradation if the authorization is not granted to maintain a good user experience, design your application so that it can properly manage the following situations: your application information while running in the background. You have learned how to receive location updates in Android, maintaining best practices in mind! To learn more [{"Type": "The thumb down", "ID": "MissingTheInformationineed", "Label": "I need information"}, {"Type": "The thumb down", "ID": "MissingTheInformation"}, {"Type": "The thumb towards the Low "," ID ": "Too complicated / too many passages "}, {"Type": "The thumb down", "ID": "MissingTheInformation"}, {"Type": "The thumb towards the Low "," ID ": "Too complicated / too many passages "}, {"Type ": "The thumb down", "ID ": "MissingTheInformation"}, {"Type": "The thumb towards the Low "," ID ": "Too complicated / too many passages "}, {"Type ": "The thumb down", "ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "The thumb towards the Low "," ID ": "MissingTheInformation"}, {"Type ": "Type Out of date "}, {" Type ":" Thumb down "," Id ": "SolvedmyProblem", "Label": "Label": "Code "}, {" Type": " Thumb down "," ID ": "", "Label Otherdown": "Other"}] [{"Type": " Thumb down "," ID ": "", "Label": "He solved the problem", "Label": "He solved the problem"}, "Label": "Easy to understand", {"Type": " Thumb down "," ID ": "", "Label Otherdown": "Other"}] [{"Type": " Thumb down "," ID ": "", "Label": "Easy to understand", {"Type": " Thumb down "," ID ": "", "Label": "Easy to understand"}, {"Type": " Thumb down "," ID ": "", "Label Otherdown": "Other"}] [{"Type": " Thumb down "," ID ": "", "Label Otherdown": "Other"}] {"Type": "inch up", "id": "Otherup", "Label": "Other "}]}]

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