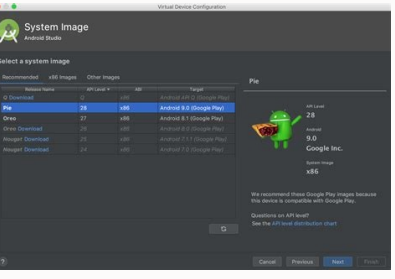


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Google map api for android studio. How to use gmail api in android studio. How to add google api in android studio. How to get api key for google map in android studio. How to use google maps api in android studio.

Stay organized with collections Save and categorize content based on your preferences. Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 4.0 License, and code samples are licensed under the Apache 2.0 License. For details, see the Google Developers Site Policies. Java is a registered trademark of Oracle and/or its affiliates. [{"type": "thumb-down", "id": "hardToUnderstand", "label": "Hard to understand"}, {"type": "thumb-down", "id": "incorrectInformationOrSampleCode", "label": "Incorrect information or sample code"}, {"type": "thumb-down", "id": "missingTheInformationSamplesINeed", "label": "Missing the information/samples I need"}, {"type": "thumb-down", "id": "otherDown", "label": "Other"}][{"type": "thumb-up", "id": "easyToUnderstand", "label": "Easy to understand"}, {"type": "thumb-up", "id": "solvedMyProblem", "label": "Solved my problem"}, {"type": "thumb-up", "id": "otherUp", "label": "Other"}] Stay organized with collections Save and categorize content based on your preferences. This topic describes how to create an API key for the Maps SDK for Android, add it to your app, and secure the app by restricting the key. You must add an API key to any app that uses the SDK. Before you begin Before you start using the Maps SDK for Android, you need a project with a billing account and the Maps SDK for Android enabled. To learn more, see Set up in Cloud Console. Creating API keys The API key is a unique identifier that authenticates requests associated with your project for usage and billing purposes. You must have at least one API key associated with your project. To create an API key: Go to the Google Maps Platform > Credentials page. Go to the Credentials page On the Credentials page, click Create credentials > API key. The API key created dialog displays your newly created API key. Click Close. The new API key is listed on the Credentials page under API keys. (Remember to restrict the API key before using it in production.) gcloud alpha services api-keys create Note: You can use the same API key for your Maps SDK for Android and Places SDK for Android apps. Restricting API keys Google strongly recommends that you restrict your API keys by limiting their usage to those only APIs needed for your application. Restricting API keys adds security to your application by protecting it from unwarranted requests. For more information, see API security best practices. When restricting an API key in the Cloud Console, Application restrictions override any APIs enabled under API restrictions. Follow best practices by creating a separate API key for each app, and for each platform on which that app is available. When you restrict your API key, you must provide the SHA-1 certificate fingerprint of the signing key that was used to sign the application. There are two certificate types: Debug certificate: Only use this certificate type with apps you're testing and other non-production code. Do not attempt to publish an app that's signed with a debug certificate. The Android SDK tools generate this certificate automatically when you run a debug build. Release certificate: Use this certificate when you're ready to release your app to an app store. The Android SDK tools generate this certificate when you run a release build. For more information about digital certificates, see the Sign your app guide. For information about getting your certificate fingerprint, see Authenticating Your Client. If you're using Play App Signing instead, you must go to the app signing page on the Play Console to get your certificate fingerprint. To restrict an API key: Go to the Google Maps Platform > Credentials page. Go to the Credentials page Select the API key that you want to set a restriction on. The API key property page appears. Under Key restrictions, set the following restrictions: Application restrictions: Select Android apps. Click + Add package name and fingerprint. Enter your package name and SHA-1 certificate fingerprint. For example: com.example.android.mapexample BB:0D:AC:74:D3:21:E1:A3:67:71:9B:62:91:AF:A1:66:6E:H4:5D:75 API restrictions: Click Restrict key. Select Maps SDK for Android from Select APIs dropdown. If the Maps SDK for Android is not listed, you need to enable it. To finalize your changes, click Save. List existing keys. gcloud services api-keys list --project="PROJECT" Clear existing restrictions on existing key. gcloud alpha services api-keys update "projects/PROJECT/keys/KEY\_ID" --clear-restrictions Set new restrictions on existing key. gcloud alpha services api-keys update "projects/PROJECT/keys/KEY\_ID" --api target="maps-android-backend.googleapis.com" --allowed-application="sha1\_fingerprint=SHA1\_FINGERPRINT.package\_name=ANDROID\_PACKAGE\_NAME" Read more about the Google Cloud SDK , Cloud SDK installation , and the following commands: What's next Now that you have an API key, create and configure a project as described in Set up an Android Studio Project. Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 4.0 License, and code samples are licensed under the Apache 2.0 License. For details, see the Google Developers Site Policies. Java is a registered trademark of Oracle and/or its affiliates. Last updated 2022-09-26 UTC. [{"type": "thumb-down", "id": "missingTheInformationINeed", "label": "Missing the information I need"}, {"type": "thumb-down", "id": "tooComplicatedTooManySteps", "label": "Too complicated / too many steps"}, {"type": "thumb-down", "id": "outOfDate", "label": "Out of date"}, {"type": "thumb-down", "id": "samplesCodeIssue", "label": "Samples / code issue"}, {"type": "thumb-down", "id": "otherDown", "label": "Other"}][{"type": "thumb-up", "id": "easyToUnderstand", "label": "Easy to understand"}, {"type": "thumb-up", "id": "solvedMyProblem", "label": "Solved my problem"}, {"type": "thumb-up", "id": "otherUp", "label": "Other"}] Stay organized with collections Save and categorize content based on your preferences. The Google Play In-App Review API lets you prompt users to submit Play Store ratings and reviews without the inconvenience of leaving your app or game. Generally, the in-app review flow (see figure 1) can be triggered at any time throughout the user journey of your app. During the flow, the user has the ability to rate your app using the 1 to 5 star system and to add an optional comment. Once submitted, the review is sent to the Play Store and eventually displayed. To protect user privacy and avoid API misuse, there are strict guidelines that your app should follow about when to request in-app reviews and the design of the review prompt. Figure 1. In-app review flow for a user Device requirements In-app reviews only work on the following devices: Android devices (phones and tablets) running Android 5.0 (API level 21) or higher that have the Google Play Store installed. Chrome OS devices that have the Google Play Store installed. Play Core library requirements To integrate in-app reviews in your app, your app must use version 1.8.0 or higher of the Play Core library. When to request an in-app review Follow these guidelines to help you decide when to request in-app reviews from users: Trigger the in-app review flow after a user has experienced enough of your app or game to provide useful feedback. Do not prompt the user excessively for a review. This approach helps minimize user frustration and limit API usage (see the section on quotas). Your app should not ask the user any questions before or while presenting the rating button or card, including questions about their opinion (such as "Do you like the app?") or predictive questions (such as "Would you rate this app 5 stars"). Design guidelines Follow these guidelines as you determine how to integrate in-app reviews in your app: Surface the card as-is, without tampering or modifying the existing design in any way, including size, opacity, shape, or other properties. Do not add any overlay on top of the card or around the card. The card and the card's background should be on the topmost layer. Once the card has surfaced, do not programmatically remove the card. The card is removed automatically based on either the user's explicit action, or an internal Play Store mechanism. Quotas To provide a great user experience, Google Play enforces a time-bound quota on how often a user can be shown the review dialog. Because of this quota, calling the launchReviewFlow method more than once during a short period of time (for example, less than a month) might not always display a dialog. Note: The specific value of the quota is an implementation detail, and it can be changed by Google Play without any notice. Because the quota is subject to change, it's important to apply your own logic and target the best possible moment to request a review. For example, you should not have a call-to-action option (such as a button) to trigger the API, as a user might have already hit their quota and the flow won't be shown, presenting a broken experience to the user. For this use case, redirect the user to the Play Store instead. Integrate in-app reviews in your app Learn how to integrate in-app reviews in your app, depending on your development environment: Kotlin or Java Native (C++) Unity Terms of service and data safety By accessing or using the Play In-App Reviews Library, you agree to the Play Core Software Development Kit Terms of Service. Please read and understand all applicable terms and policies before accessing the library. Data Safety The Play Core libraries are your app's runtime interface with the Google Play Store. As such, when you use Play Core in your app, the Play Store runs its own processes, which include handling data as governed by the Google Play Terms of Service. The information below describes how the Play Core libraries handle data to process specific requests from your app. In-app Reviews Data collected on usage User-entered data (rating and free-text review) Purpose of data collection The data collected is used to leave a review on the Play Store. Data encryption Data is encrypted. Data sharing The data collected is used in a public review on the Play Store or, if the app is in a closed test track, the data collected is shared privately with the app developer. Data deletion Users can delete their reviews in their Google Play Store account or Google account. While we aim to be as transparent as possible, you are solely responsible for deciding how to respond to Google Play's data safety section form regarding your app's user data collection, sharing, and security practices.



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