

Google Cloud Messaging application on Android operating system

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Abstract: In the context of the increasing demand for instant communication between mobile applications and servers, this topic focuses on researching and applying Google Cloud Messaging (GCM) on the Android operating system. The goal is to build an efficient communication system that allows push notifications to be sent from the server to Android devices without depending on the application's active state at the time of receiving information. The research method is carried out based on a combination of theory and experimentation, including technical analysis of GCM, source code implementation, and system testing in a real-world environment. The expected results of this topic not only introduce an efficient communication solution for Android applications but also contribute to enhancing understanding of mobile communication technologies.

Keywords: Google Cloud Messaging, Android Operating System, Instant Messaging