

Calculator Vault: Secure App Vault disguised as Calculator

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Abstract: *With the growing need for digital privacy, securing personal applications has become a priority for users. This paper presents "App Vault," a security-focused Android application that functions as a dual-purpose calculator and hidden app vault. While appearing as a standard calculator, the application discreetly unlocks a secure vault upon entering a predefined secret code, allowing users to hide and access sensitive apps. The system is designed with robust security measures, including a customizable access code, app hiding/unhiding functionality, and Device Admin permissions to prevent unauthorized detection. Developed using Android Studio with Java, App Vault offers a seamless blend of usability and security. This paper discusses the architecture, implementation, security challenges, and potential enhancements, highlighting its significance in safeguarding user privacy in modern mobile environments.*

Keywords: Calculator vault, App hider, Mobile security, Privacy Protection

