

Review of: "A Security Framework for the Mobile Application Using Color Barcode"

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Potential competing interests: No potential competing interests to declare.

A Security Framework for the Mobile Application Using Color Barcodes

Advantages:

This study relies on RSA & QR Code technologies that give security

It explores a potentially new approach to mobile app security using color barcodes,

which could be a fresh alternative to traditional methods. Color barcodes might be simpler for users to understand and interact with compared to complex alphanumeric codes. If the

framework doesn't rely solely on internet connectivity, it could be useful for offline scenarios.

Cons:

The approach may not be different from existing solutions like QR codes with encryption. It also needs additional software for reading color barcodes, which could create friction and deter users. Implementing and managing color barcodes for a large user base could be more complex compared to existing solutions.

For improvement in the security framework using color barcodes:

1. Reed-Solomon codes can ensure robustness against color variations during scanning
2. This could involve combining the color barcode scan with a PIN, fingerprint recognition, or a time-based one-time password for enhanced security.
3. Steganography and cryptographic hashing algorithms can be used to enhance security