**FUTURE ENHANCEMENT**

Use of hardware acceleration: Many mobile phones now have hardware accelerators for encryption, such as the ARM Cryptography Extensions (ACE) or the Intel Advanced Encryption Standard New Instructions (AES-NI). These accelerators can significantly improve the performance of encryption algorithms, especially for large images.

Support for multiple encryption algorithms: The current project uses a single encryption algorithm, but it would be useful to support multiple algorithms to give users more flexibility. This could be done by providing a setting where users can choose their preferred algorithm, or by using a hybrid approach where multiple algorithms are used together to improve security.

Integration with other security features: The encryption technique could be integrated with other security features on mobile devices, such as fingerprint authentication or face recognition. This would provide an additional layer of security and make it more difficult for unauthorized users to access encrypted images.

Support for real-time encryption: The current project encrypts images after they have been taken, but it would be useful to support real-time encryption. This would allow users to encrypt images as they are being taken, which would further improve security.

Development of a user-friendly interface: The current project is intended for developers, but it would be useful to develop a user-friendly interface for non-technical users. This would make it easier for people to use the encryption technique to protect their images.

In addition to the above enhancements, the following are some other ideas for future research:

Development of new encryption algorithms that are specifically designed for mobile devices: Existing encryption algorithms were not designed with mobile devices in mind, so there is an opportunity to develop new algorithms that are more efficient and secure on mobile devices.

Investigation of the use of artificial intelligence (AI) to improve the security of image encryption: AI could be used to develop new encryption algorithms that are more resistant to attack, or to develop new ways to detect and prevent unauthorized access to encrypted images.

Research into the use of blockchain technology to improve the security of image encryption: Blockchain could be used to create a decentralized and tamper-proof system for storing and managing encrypted images smartphones and laptops.