QUEZON CITY UNIVERSITY
SAN BARTOLOME | SAN FRANCISCO | BATASAN HILLS

CC106 – APPLICATION DEVELOPMENT AND EMERGING TECHNOLOGIES

Group No.: 3 **Section: SBIT-3G**

Title: Quantum-Secure Messaging Web Application	
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Project Description:

The Quantum Secure Messaging App is designed to provide a safe and private chatting experience by protecting users from unwanted or inappropriate messages. It includes a blocking feature that allows users to block senders who send offensive or inappropriate messages, ensuring a more secure communication space. To enhance privacy, messages from unknown senders are automatically blurred until the user chooses to view them. This helps prevent unwanted exposure to harmful or inappropriate content. Additionally, the app has a screenshot prevention feature, preventing users from capturing sensitive conversations and ensuring that private messages remain confidential. With these safety-focused features, the app promotes a secure and comfortable messaging environment, allowing users to communicate freely while staying protected from unwanted interactions.

Main Objective:

To create a user-friendly messaging app that prioritizes safety and privacy, empowering people to communicate confidently by reducing exposure to harmful content and protecting their conversations from unwanted access or misuse.

Specific Objectives:

- Enables users to block or restrict senders to prevent harassment, offensive messages, or unwanted interactions.
- Minimize accidental exposure by automatically hiding messages from unknown contacts until the user chooses to view them.
- Prevent unauthorized sharing of private conversations by disabling screenshots within the app.
- Maintain confidentiality by ensuring sensitive messages remain accessible only to intended recipients.

- Promote a comfortable and secure environment where users can communicate without fear of inappropriate content or privacy breaches

Scope:

This system will provide a secure and private mobile messaging application (iOS and Android) focused on protecting users from unwanted or inappropriate content. It will offer a comfortable communication environment by giving users control over their interactions and safeguarding their privacy.

1. Users can block specific contacts, preventing them from sending further messages. A clear and accessible blocking mechanism will be implemented.
2. Messages from senders not in the user's contact list will be blurred upon arrival, requiring explicit user action to reveal the content. Functionality to easily add unknown senders to contacts will be included.
3. The app will incorporate a mechanism to prevent screenshots of conversations within the app. This may involve system-level integration or in-app techniques.
4. End-to-end encryption for all messages.
5. Secure storage of user data.

Delimitations:

1. The app does not integrate with third-party messaging platforms, limiting cross-platform communication.
2. The app limits the size or type of files that can be shared, restricting multimedia communication options.
3. The app will not support offline messaging: an internet connection is required for all communication.
4. It will not allow the sharing of real-time location or GPS data.

_____ Approved _____ with Revision _____Disapproved

Approved by: _____ _____

John Gabriel Sambajon **Date**
Subject Adviser
(Signature over printed name)