Form 5: Justification and Conclusion

1. **Team No**: 6
2. **Project Title**: Chatting Interface using Android Studio
3. **Justification**

Sl. No	Parameter	Exiting value	Improved value	Justification
1	User friendly	There is no malicious URL detection	Detection of malicious URLs is done through API	The improved value in this chatting interface lies in its enhanced user safety by proactively detecting and blocking malicious URLs, providing a secure and user-friendly environment for communication. This feature addresses a critical vulnerability by mitigating the risk of users inadvertently accessing harmful or phishing websites.
2	Accuracy	NO detection of Malicious URL	The System is reliable in identifying Malicious URLs	Implementing malicious URL detection in the chatting interface significantly enhances user security by proactively identifying and preventing access to harmful content, ensuring a safer and more reliable chatting experience.
3	Scalability	The current solution lacks malicious URL detection, exposing users to potential security risks and harmful content.	The improved interface includes robust malicious URL detection. URLs shared within messages are scanned for safety, ensuring that users are protected from phishing attempts and malicious websites. Safe URLs are stored in the database, reducing the need for repetitive checks.	The improved interface includes robust malicious URL detection. URLs shared within messages are scanned for safety, ensuring that users are protected from phishing attempts and malicious websites. Safe URLs are stored in the database, reducing the need for repetitive checks.

4. Conclusion

In conclusion, the described chatting interface offers a comprehensive one-to-one chatting experience with several key features: Sending and Receiving Messages: Users can communicate by sending and receiving messages seamlessly within the interface. Message Replies: Users have the option to reply to received messages, enhancing the interactive nature of the conversation.URL Handling: If a message contains a URL, the system processes it using API keys. The URL is sent to Google Safe Browsing, a trusted service for URL safety checks. Security Measures: If the URL is determined to be safe, it is forwarded to the receiver. However, if the URL is flagged as unsafe, the message is not forwarded, and an error message is displayed. This robust security feature helps protect users from potential phishing attacks and malicious URLs.

Team Members Signature: Signature Supervisor
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