An Android Messaging and Calling Application

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***Abstract*—This undergraduate thesis investigates an Android application for messaging and calls. Mobile users need account, contact, messaging, and real-time communication functions in one interface. The student develops an Android application and documents personal profiles, friend search, individual and group chats, a chatbot screen, and voice and video call interfaces. The manuscript shows the main screens and reports text and multimedia messaging, calls between two users, and message-history access as implemented functions. The source notes basic social features, limited conversation design, and missing location, sticker, and GIF sharing. It does not provide independent security, privacy, or call-quality measurements. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Android, messaging, voice call, group chat**

I. Introduction

Mobile users need account, contact, messaging, and real-time communication functions in one interface. This thesis investigates an Android application for messaging and calls. It begins from a practical engineering need and explains the technologies and workflow chosen for the case. The objective is to document a student implementation or comparative investigation, together with the evidence available in the manuscript. Broader operational or economic effects require separate measurements and are not assumed from the existence of a prototype [1]. Earlier ICTU student work on related designs is included here for context [2], [3], [4]. Related published studies provide context for the subject and methods [5], [6], [7], [8], [9], [10]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The student develops an Android application and documents personal profiles, friend search, individual and group chats, a chatbot screen, and voice and video call interfaces. The source is summarized through its stated design, implementation material, examples, and conclusion. Features shown in the manuscript are distinguished from proposals for later development. This review does not add a new experiment, fill missing measurements with estimates, or treat a planned capability as an observed result. The source thesis remains the provenance for the reported work [1].

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III. Results

The manuscript shows the main screens and reports text and multimedia messaging, calls between two users, and message-history access as implemented functions. The report's screens, configurations, examples, or measurements constitute the evidence for this summary. A capability described only as a design intention is not counted as a validated operational outcome. No additional performance, adoption, financial, or safety figure has been introduced here. The result is interpreted within the scope of the student's documented setup [1].

IV. Discussion

The source notes basic social features, limited conversation design, and missing location, sticker, and GIF sharing. It does not provide independent security, privacy, or call-quality measurements. Further work could test message delivery and call stability under varied networks, improve privacy controls, and evaluate the missing social functions. These limitations affect how the evidence should be read. The current manuscript can support understanding of the design and reported demonstration, while independent tests would be needed for stronger claims. Any later deployment should document its environment and separate observed outcomes from intended benefits [1].

V. Conclusion

The thesis documents an Android application for messaging and calls. The manuscript shows the main screens and reports text and multimedia messaging, calls between two users, and message-history access as implemented functions. The source notes basic social features, limited conversation design, and missing location, sticker, and GIF sharing. It does not provide independent security, privacy, or call-quality measurements. Further work could test message delivery and call stability under varied networks, improve privacy controls, and evaluate the missing social functions. Accordingly, the present contribution is a source-grounded account of the student work and its tested or illustrated scope. Claims about broader effectiveness should be assessed in later work using explicit evaluation conditions [1].

References

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