An Android Running Activity Tracker

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***Abstract*—This undergraduate thesis investigates an Android application for recording running activities. Runners may want to review past sessions and the main details of a workout. The student designs and implements an Android app that records runs and presents a history and summary of completed sessions. The source documents application screens and its handling of location-related information. The conclusion reports that users can review completed runs and see overall session information. It also acknowledges a limited summary dashboard, missing social functions, and location services that are not fully optimized. The manuscript does not measure health outcomes, location accuracy against a reference track, or sustained use by runners. A demonstration of tracking does not establish training effectiveness. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Android, running tracker, activity history, location**

I. Introduction

Runners may want to review past sessions and the main details of a workout. This thesis investigates an Android application for recording running activities. 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]. Related published studies provide context for the subject and methods [4], [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 designs and implements an Android app that records runs and presents a history and summary of completed sessions. The source documents application screens and its handling of location-related information. 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 conclusion reports that users can review completed runs and see overall session information. It also acknowledges a limited summary dashboard, missing social functions, and location services that are not fully optimized. 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 manuscript does not measure health outcomes, location accuracy against a reference track, or sustained use by runners. A demonstration of tracking does not establish training effectiveness. Further work could add useful summary metrics, improve location behavior, test battery consumption, and consider optional social features after privacy review. 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 recording running activities. The conclusion reports that users can review completed runs and see overall session information. It also acknowledges a limited summary dashboard, missing social functions, and location services that are not fully optimized. The manuscript does not measure health outcomes, location accuracy against a reference track, or sustained use by runners. A demonstration of tracking does not establish training effectiveness. Further work could add useful summary metrics, improve location behavior, test battery consumption, and consider optional social features after privacy review. 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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