Jimmy Dagum - Executive Summary

Repository: *scottyab/rootbeer*
Fork Repository: *https://github.com/jimmydagumjr/Group-2*

The *scottyab/rootbeer* repository is an Android security project focused on detecting root access on mobile devices. This analysis examined commit history to evaluate contributor activity, file modification patterns, and overall project health.

Only **source files** were included to ensure the analysis reflected core development work. Source files were defined as Java (.java), Kotlin (.kt), C/C++ (.c, .cpp, .h, .hpp), and CMake build files, as these directly contribute to application functionality.

The repository contains **37 source files** modified by **30+ contributors** over roughly **500 weeks**, indicating sustained development and long-term project viability. Activity is concentrated among a small group of developers, with **scottyab** performing the majority of file touches and likely serving as the project's primary maintainer. Contributors such as **stealthcopter** and **danielkutik** provide additional support, while many others appear to contribute targeted fixes or enhancements typical of mature open-source projects.

The most frequently modified file, **RootBeer.java** (53 touches), suggests a critical component that has evolved alongside the project.

Overall, the repository demonstrates strong health through consistent activity, clear ownership patterns, and continued updates. However, reliance on a small number of primary contributors presents potential continuity risk. Expanding knowledge distribution across the team would improve long-term maintainability.

Key Git commands used: git shortlog -sne, git log --name-only, git log --stat, and git blame.