Executive Summary: RootBeer Project Status Report
Date: 1/28/2025
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Project Overview

The RootBeer project is a critical tool for detecting rooted Android devices, ensuring the security and integrity of our applications. The project has seen consistent development over the years, with contributions from multiple developers. Recent activity indicates ongoing maintenance and feature enhancements, particularly in the sample application and core library.

Key Highlights

1. Recent Activity (Last 6 Months):
   - Scott Alexander-Bown has been the most active contributor, with multiple commits in September 2024, focusing on updates to the sample app and core library.
   - Artsem Kurantsou contributed significantly in August 2024, primarily to the MainActivity.kt and RootSampleApp.kt files.
   - Matthew Rollings and Daniel Kutik were active in earlier years but have not contributed recently, suggesting they may have left the project.
2. Top Contributors (All-Time):
   - Scott Alexander-Bown: 70% of total commits.
   - Matthew Rollings: 20% of total commits.
   - Others (Artsem Kurantsou, Daniel Kutik, etc.): 10% of total commits.
3. Recent Focus Areas:
   - Sample Application Enhancements: Updates to MainActivity.kt, RootSampleApp.kt, and RootItemAdapter.kt to improve user experience and functionality.
   - Core Library Maintenance: Updates to RootBeer.java and Utils.java to ensure compatibility with newer Android versions and improve performance.
4. Potential Risks:
   - Developer Dependency: Scott Alexander-Bown is the primary contributor. His reduced involvement could slow progress.
   - Legacy Code: Some files (e.g., toolChecker.cpp) have not been updated recently and may require refactoring.

Contributor Activity Overview

The chart below summarizes contributor activity over the projects entire lifespan:
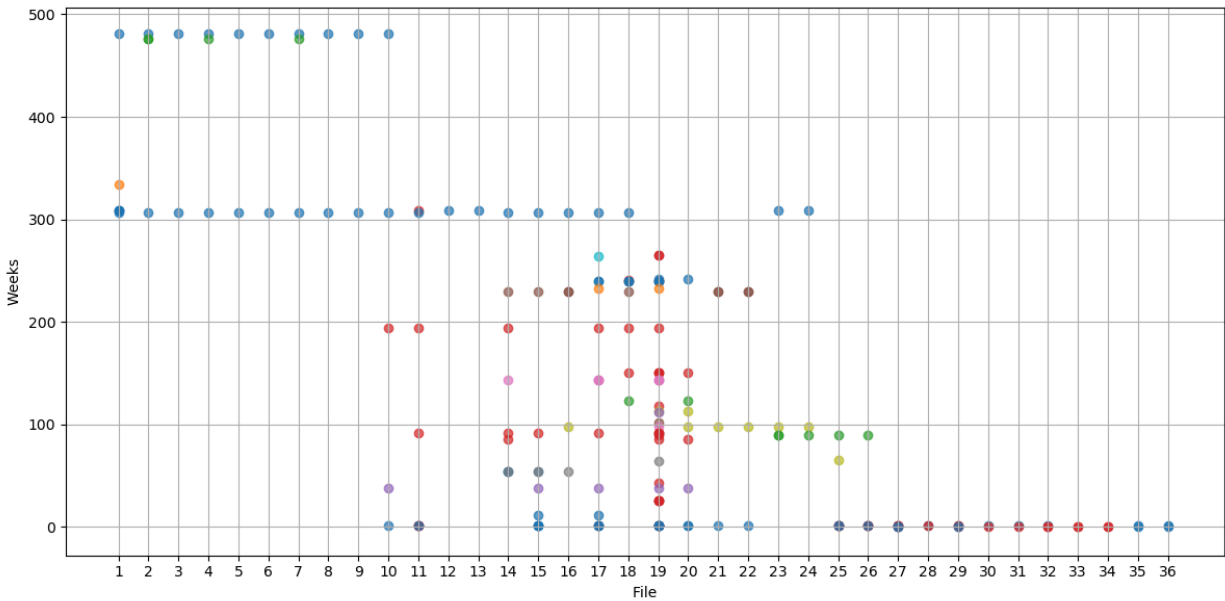
Git Commands Used for Analysis

To generate this report, the following Git commands were particularly useful:

- git log --author="" --since="": Filtered commits by author and date range.
- git shortlog -sn: Summarized commit counts by contributor.
- git log --pretty=format:"%h - %an, %ar : %s": Formatted commit history for readability.

Next Steps

1. Onboard Additional Developers: Reduce dependency on Scott Alexander-Bown by onboarding new contributors.
2. Code Refactoring: Prioritize updates to legacy files like toolChecker.cpp to ensure long-term maintainability.
3. Roadmap Review: Align development efforts with company security goals and Android platform updates.

Prepared for: Boss man
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Link to Fork: https://github.com/evanheader/Group-1