Executive Summary

Project: RootBeer (scottyab/rootbeer)
Prepared by: Tri Tran
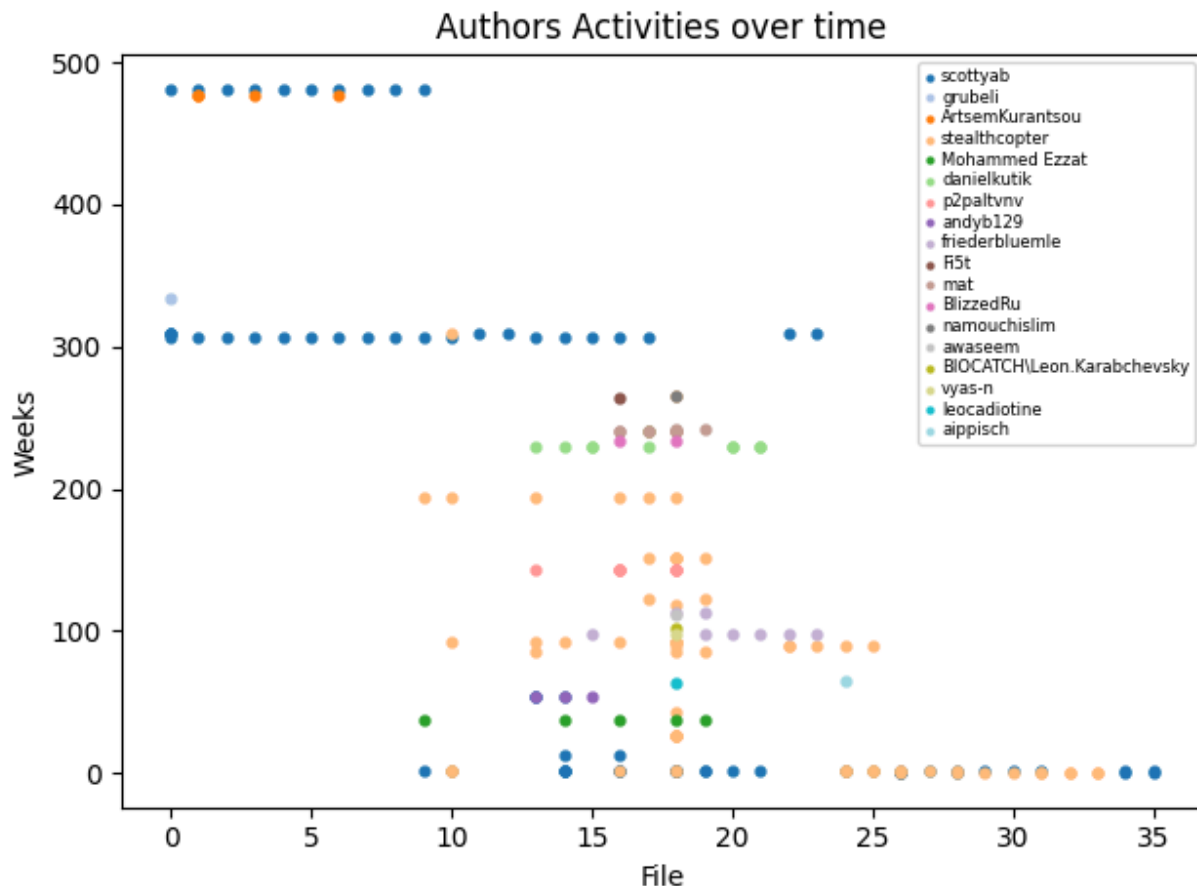**Purpose**: Repository activity analysis using Git and GitHub mining
Repository Link: https://github.com/trant98/Group-3

Project Overview

This report analyzes development activity in the **scottyab/rootbeer** repository using commit history, source-file touches, and contributor timelines to assess work distribution, ownership, and maintenance risk.

Development Activity & Timeline

The project spans approximately 500 weeks, indicating long-term maintenance. File activity over time shows early intensive development, followed by broader contributor involvement, and more recent low, concentrated activity - suggesting a transition to maintenance-focused development.

Key Contributors

Contributor activity is uneven, with one primary contributor active throughout most of the project's lifetime, while others participate intermittently. This indicates clear long-term ownership.

File Touch Frequency

Analysis identified 36 core source files. Source files were defined as Java, Kotlin, and C/C++ files, as these contain executable logic.

One file, **rootbeerlib/src/main/java/com/scottyab/rootbeer/RootBeer.java**, stands out with 53 touches, indicating a central role in the project.

Git Commands Used

The following Git commands were particularly useful during analysis:

- git log - to examine commit history and project evolution
- git shortlog - to identify major contributors
- git blame - to inspect file ownership patterns
- git diff - to observe how files change over time