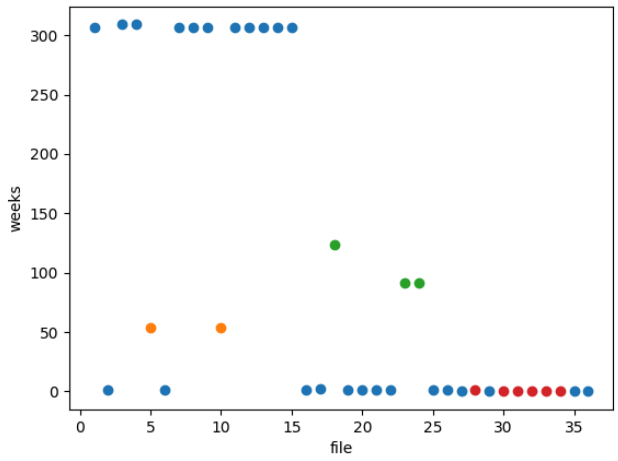
In this project, the GitHub API was implemented to mine information from a repository by “scottyab”, specifically the “rootbeer” repository. Within this repository, I filtered out specific source files, ones that ended in “.java”, “.cpp”, “.kt”, and “.h”, from all the commits to be included into a csv that contained the filename, the author of the commit, and when it was committed. Then, this information was visualized onto a scatter plot, with the x-axis being the number of the unique source file and the y-axis being when the file was “touched” (counted by the number of weeks since the project creation until when that specific file was committed into the repository). Each color on the scatter plot represents who committed that file. Through the mining, there were only five different authors, represented by the 5 different colors of dots in the graph. Scotty Alexander Bown was the biggest contributor to this project with the most commits overall, especially in the weeks closer to the completion of the project.



There were many useful commands that I found useful during this lab, but I took most interest in using the GitHub Desktop application, which may or may not have been the desired goal. I was able to do everything I’d normally do through git commands through the GitHub desktop interface, from cloning repositories to branching, making it very easy to locate where I was within my own fork. The desktop interface also showed all file changes, automatically comparing the changes from the local files to the current published ones.