Concordia University

Engineering and Computer Science

Assignment 2 – Part 2

Goals and Questions

SOEN 6611: **Software Measurement**

Winter 2015

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Goals and Questions:

How does controlling memory usage affect the overall performance on Google Chrome?

Extracting Attributes:

100% CPU usage: 2311 issues
Memory crash: 7411 issues
High memory: 3226 issues

- Number of defects related to 100% CPU/GPU usage.

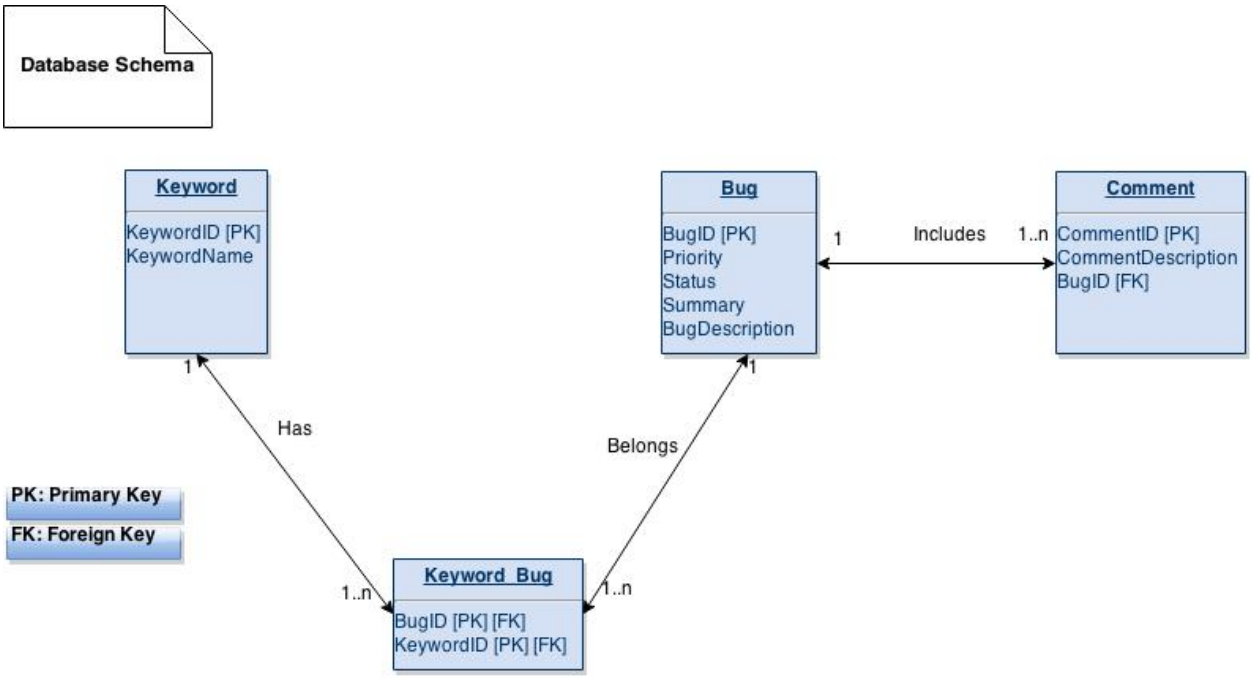
CPU/GPU usage have a direct effect on the performance and quality of Google Chrome, thus using this measure to find the resolved bugs that are correlated with the high CPU and GPU usage will identify the level of improvement in performance of the Google Chrome.

- Number of defects stating increased memory/memory crash due to page rendering in chrome.

Intensive page rendering indicates an increased memory usage by Google Chrome, so by stating number of resolved defects related to memory usage affected by page rendering, we can figure out the level at which Google Chrome is performing and therefore identifying whether the performance is improving or not.

Linking Attributes:

Database Schema



Analysis and Conclusion

Solution Approach

Step 1:

All unrelated Bugs will be removed from the bug table in accordance to, as searching and saving bugs using keywords may result in getting the same bug.

Step 2:

We will perform a search on the database to get all of the resolved bugs' vs the unresolved bugs, if the number of resolved bugs exceeded the unresolved bugs this will conclude that the issue of high memory/ increased CPU usage has been minimized.