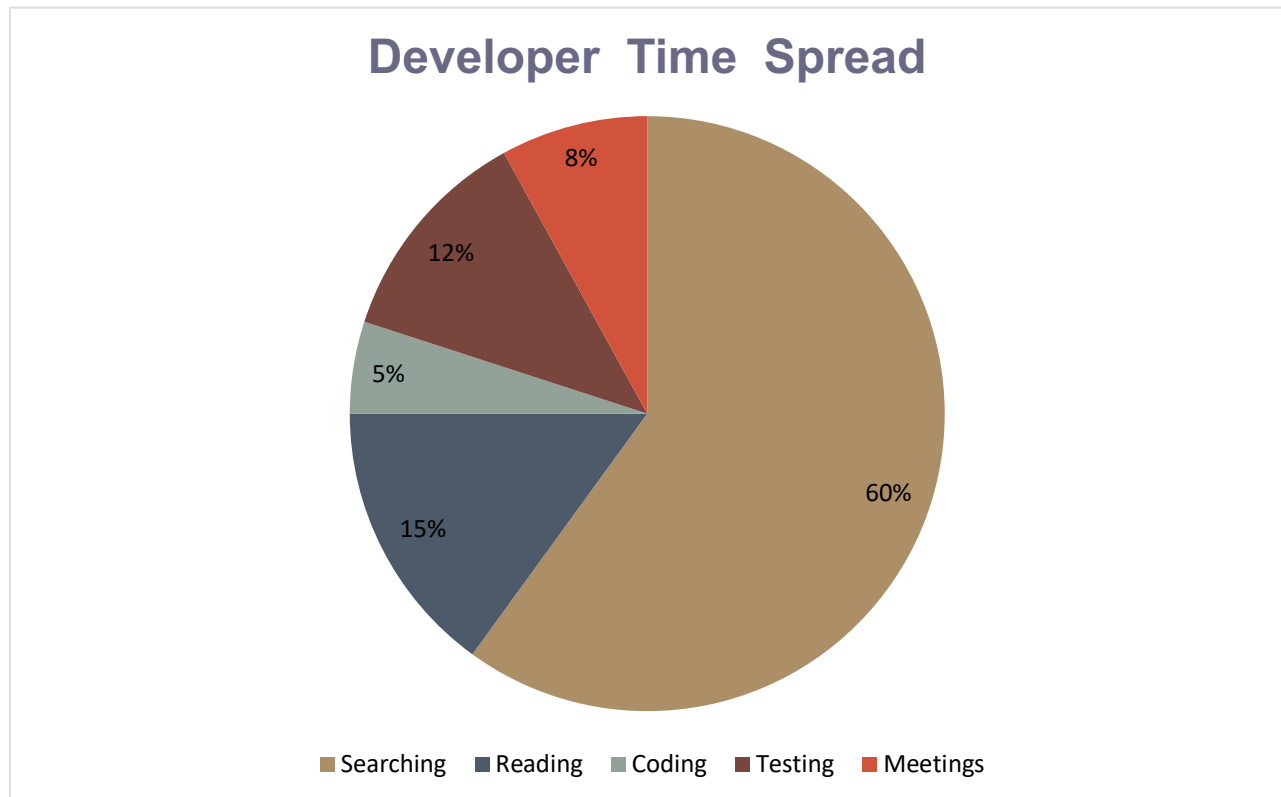


This paper describes how time spend either fixing a bug in software code or adding new functionality could be reduced by 20% - 40%. As a result, developer time spend could be freed up from tedious routine code search and relocated to creative new code writing.

The Problem

Developers spend 60% of their time on searching lines of code for the right location for inspection, adding new functionality or changing code to fix a bug.



Simple text search does not help much because exact single words need to be entered as search query and the result list indicates no relevance to the entered query.

Imagine

Imagine you could take a Jira issue ticket and put it into a search engine that searches all classes and returns a list of relevant ones in the order of importance. A search result organized according to relevance just like the ones done by existing internet search engines.

CodeSearchFinder for Software Development

Our tool CodeSearchFinder reduces the time to locate relevant classes in software code to minutes. Entering meaningful text or importing a complete Jira issue ticket into the search engine will list with 75% accuracy the potential classes in the Top 10 result list allowing the developer to be directly linked to the classes where they can start working on the issue immediately.

How does it work?

CodeSearchFinder analyses code with semantic similarity as well as intelligent heuristic algorithms and ranks discovered classes according to relevance. Queries could be entered manually, or Jira tickets can be imported through an API. CodeSearchFinder also suggests to developers how to improve the description of issue tickets to enhance search results in the future (self-learning).

CodeSearchFinder also provides information and statistics dashboard for team managers.

Challenges CodeSearchFinder addresses

Developers can focus on writing or changing code instead of reading and searching thousands of lines prior to maintenance. Initial companies using CodeSearchFinder report an overall time savings of 20% - 40% in their development departments.

Customer issue tickets are resolved much faster: A telecommunication service provider reduced the time to resolve issues in their billing system by 30% and as a result they are now planning the global roll out of CodeSearchFinder.

New developers become more efficient in working on legacy code as their time to understand old code is substantially reduced. Team work on large code projects becomes more effective as developers connect code written by other colleagues much easier. One of our customers, an international bank, reduced the software maintenance team size and still improved the average ticket resolution time.

New code quality becomes higher whilst testing time gets reduced.

It is difficult to find developers in the current market. With an overall time saving of 20% - 40% in the existing team, the search for new developers can also be relaxed.

Where can CodeSearchFinder be used?

Usability Group	Programming Languages
New requirements / code <ul style="list-style-type: none"> • Analysts • Developer 	Java COBOL .NET / C#
Maintenance <ul style="list-style-type: none"> • Bug analyst • Bug fixing developer 	C / C++ Objective C <i>On request:</i>
Reviewer / Tester of both groups above	JavaScript, PL/SQL, HTML/PHP, Python, and ...

You want to improve developer efficiency with our tool, and save costs?

Get in touch and arrange an online presentation with us!

IT All Software Solutions

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