

Your Code Search Engine

**ConCodeSe locates relevant source code files
to resolve a reported problem with 70% accuracy
and increases developer productivity by 40%**



The Commercial Impact!

Time is money; how much do you waste?

Currently software developers spend 60% to 80% of their time reading and understanding the source code of an application to find the right entry points and connections to other code modules for implementing business requirements, i.e. enhancements or corrections. This time increases with the size and complexity of the existing code base.

ConCodeSe is a tool to search the source code of an application to locate the code files that may need to be changed to implement the requirements. For example, issue tickets from JIRA bug-tracking system can be loaded into the tool, which then produces a list of relevant code files for enhancements and corrections in seconds, thanks to its unique pre-indexing and ranking algorithm.

ConCodeSe reduces tedious search time by 25% to 40% thus allows for more focused time on creative programming of business requirements. It works with Java programming language (others becoming available soon) and can be integrated with existing ticketing systems, version management systems, integrated development environments and continuous integration systems.

Faster Issue Ticket Response Times

Issue tickets can be handled much faster, and the list of multiple code locations generated by ConCodeSe reduces the chance that corrections to relevant code are missed, hence improves the quality. The users of ConCodeSe report on average 20% time saving, which reduced the cost for handling defect tickets, and allowed a faster response time resulting in higher customer satisfaction!



Learn Existing & Relevant Code Much Faster

Maintaining existing code is a difficult job and gets even harder if the code has been written by developer who may no longer be in the project. Using ConCodeSe, new developers can find, study and learn existing and relevant code much faster.

Becoming familiar with legacy code can easily take a developer many months, however, with ConCodeSe this time can be reduced and the new developers may become efficient much earlier.

Improved Quality & Customer Satisfaction

When programmers spend many hours in reading the existing code to find the location of a failure or a point for improvement, it is known to impact concentration. Lowering a programmer's concentration results in an increase in the number of failures. As a result, more programming and testing iterations take place, which besides the time and cost directly impacts the quality.

Better Supervision for Teams

One of the requirements to efficiently manage development teams is to perform random code quality checks. Managers find their checks much easier and faster when they are supported by ConCodeSe hence are able to better support their teams, and can stay closer to development progress.

Increased Productivity / Motivation

With the increase of code quality, the number of defect tickets decreases, resulting in less pressure on development teams. Teams will have more time to focus on creative programming thus overall team motivation is improved, and churn is reduced.



Some Estimates

The following numbers have been calculated based on years of research experience.

No of applications	Number of source files	Number of bug reports	Top-1	Top-5	Top-10
10	57985	5147	42%	67%	75%

Henceforth our claim is:

- Given that on average developers spend up to 60% of their time searching for relevant files,
- When ConCodeSe suggests 42% of the time the relevant files in top-1,
- Then the search time may be reduced on average by at least 40%,
- Which means 25% (60% reduced by 42%) less effort in analysis and/or bug fixing

This may be equal to following savings:

- 3 days to fix a bug, up to 1 day of savings
 - $3 \times 8\text{hrs} = 24\text{hrs} - 25\% = 6\text{hrs}$

Additional emotional benefits:

- Less frustration and confusion
- More time to focus on new development
- Short learning curve when comprehending unfamiliar applications
- Manage the ever growing complexity of existing applications

Can you afford not to have ConCodeSe?

We are removing all your risk!

We are offering an online demonstration of the ConCodeSe software, a proof of concept (PoC) evaluation performed by us, followed by a 2-months trial for a team of 5–10 developers. Once you experience the enormous benefits and savings delivered by ConCodeSe, it is an easy decision to continue with an open-end monthly license contract.

Please contact us for your private online presentation!

Tezcan Dilshener – email: tezcan.dilshener@concodese.com