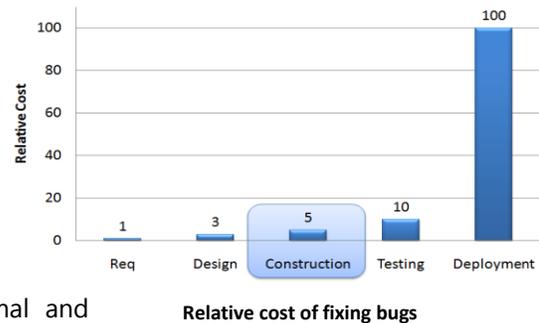# Code Review Tool

protium

Code review is a systematic examination of source code with an intention to find and fix bugs. Code reviews are primarily done during development phase to improve the quality of the software. The cost of fixing bugs after release to customer is nearly ten times the cost of the fixing it during development. Finding and fixing bugs early in the software development phase can lead to large cost savings.
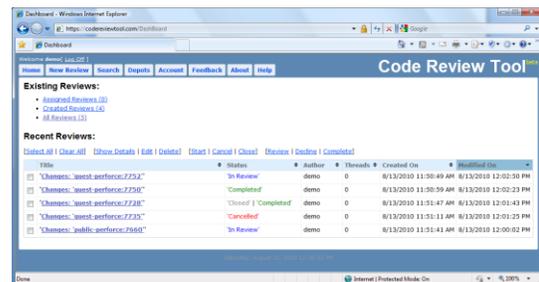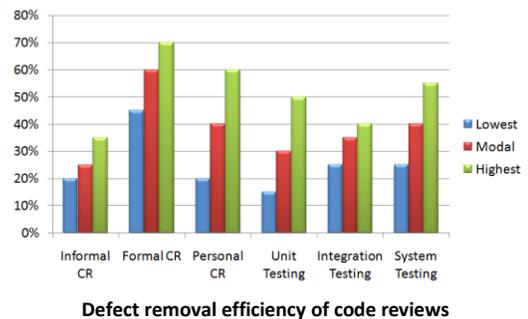
Code Review Tool allows team members to review the code collaboratively in an easy and efficient manner. It provides all the benefits of formal code inspections but requires considerably less effort and time

Code reviews increase shared understanding of code base across team members making them more agile. Code reviews can be an effective mentoring tool for new team members. Code Review Tool supports both formal and lightweight code review processes.
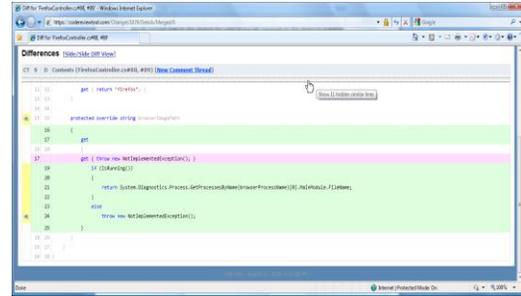

Relative cost of fixing bugs

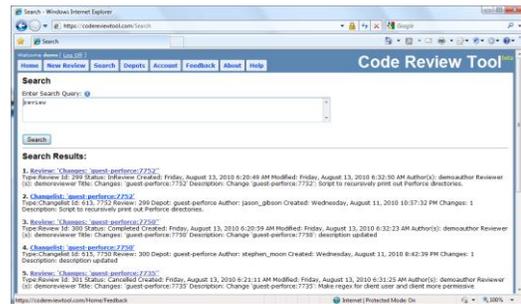# Features

Defect removal efficiency of code reviews

➢ **Easy & efficient** collaborative peer code reviews

➢ Supports both **formal and informal** code reviews

➢ Can identify on average **60% impactful bugs** during development phase

➢ Reduces total product development cost by **finding bugs early** before testing & deployment

➢ Increases **shared understanding** of code base and acts as an **effective mentoring tool** for team members

➢ **Effective review management**

- Integrates and works seamlessly with **multiple different types of source control managers** like Subversion, Perforce, GitHub & Team Foundation Server

- Automatic review state management

- **Email notifications** on review state changes with link to relevant review details

- **Dashboard** for quick access to different reviews

- **No installation or configuration** needed on client machines

➢ **Easy and efficient management of discussion threads** on source code

- **Easy and intuitive** way of adding new discussion threads for single or multiple lines of source code

- **Multiple views** of discussion threads, like overlaid, detailed and filtered view, to easily relate discussion threads with source code location and easily manage different discussion threads

Review Dashboard

- **Automatic migration** of discussion threads when source files get updated for iterative reviews
- **Search across discussion threads** to quickly locate relevant discussion threads
- Discussion thread **status tracking**
- Discussion threads **grouping by status**
- **Bulk operations**, like changing status and deleting, for discussion threads

Discussion threads in overlaid diff view

- **Reviewer can retract their comments** before completing their review
- ➢ **Minimalistic UI design** allows users to do easy and efficient reviews
  - **Keyboard bindings** allow developers to quickly complete repeated tasks
  - **Different types of diff views**, like overlaid & side by side view, allows the users to easily understand changes to source code.
  - **Summary diff view** collapses similar regions of source code, which can be expanded on demand, to focus on differences quickly and efficiently
  - **Syntax highlighting** improves readability of the source code and helps in easy understanding of the differences
- ➢ **Integrated search** allows users to quickly search and locate the object of interest
  - Integrated **search across Reviews**, **Comment Threads, Changelists** and **Source Code**
  - Search **results list link to objects** for easy navigation back to details

Integrated search results

  - Searches can be **filtered** based on particular object type
- ➢ Available as **subscription service** (https://codereviewtool.com) and as a **packaged software product** (http://codereviewtool.com) for deployment inside your company.

Contact

For more information on how Code Review Tool can help you improve your software quality, please contact Protium Software. We will be happy to do a detailed technical demonstration of Code Review Tool at your office.

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