

CODE REVIEW TOOL - PEGA

Code Review Tool focuses on performing design, security and consistency analysis for Pega that will help improve Pega code quality and provide productivity improvement on development and code review effort. It automatically reviews the Pega codebase against the best practices defined (client specific) including the Pega Product specific Guardrails/Security Analyzer and displays the rules that violated them with a Quality Scorecard. It can be used in addition to the Pega Guardrails/Preflight tool. There are about 40 additional best practices built into the tool based on past experiences and common coding best practices.

OOTB score calculation algorithm is considered for calculation of compliance score for the application with customized best practices. It can be seamlessly embedded with CI/CD pipeline.

KEY HIGHLIGHTS

Ability to export warnings to Excel/PDF

Reviewer can export the warnings to either PDF or Excel.

Notify desired recipients

Reviewer can notify desired recipients warning details in a PDF file.

Able to add customer specific best practices



PRODUCT FEATURES

- Automatically reviews Pega code based on client requirements.
 - Used in addition to the Pega Guardrails/Preflight tool.
 - Limits like no. of steps in activity can be modified easily.
 - Scans for rules with security vulnerabilities.
 - Allows to export the warnings to Excel/PDF.
 - Sends email to desired recipients with warnings attached.
 - About 40 best practices built into the tool for few rule types based on past experiences and common coding best practices so far.
 - Can be embedded into CI pipeline where deployment decision can be made based on Review Score calculated by this tool.
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BUSINESS USE-CASE

Reduction in effort spent on manual review by Tech Leads/Lead System Architects:

- Manual code review using the Client-specific coding standards and best practices, common programming errors from past experience are maintained in a spreadsheet.
 - Customer specific best practices can be added.
 - Fast-tracks code quality validations.
 - Overcomes manual intensive, time consuming & non-consistent (subjective to individuals reviewing the code) code review approach.
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BUSINESS PROBLEM

- Time consuming for a tech lead to review each rule. Each manual review takes ~10 minutes per coding artifact (e.g. per activity). On an average 3-4 days are required on code reviews for a low complexity application (500 rules).
 - Preflight/Guardrails reports only OOTB best practice violations/warnings.
 - Non-Consistent Code Review Approach (subjective to Individual's attention to details).
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BUSINESS BENEFITS

- **Easy to Maintain/Configure:** Conditions like limits (number of steps, shapes etc.), counts can be easily adjusted based on requirement without digging into its rules.
 - **Ease of Usage:** Reviewer can easily import this product into their Pega Installation and start using it in no time.
 - **Consistent Code Quality:** An automated code quality validation is repeatable and reliable than a manual intensive code review approach, which is subject to human error & dependent on individuals
 - **Effort Efficiency:** This tool greatly reduces the effort spent on manual review by Tech Leads or Lead System architects, and helps in developing a quality application.
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