CoderGears JArchitect v2024.1 (16 Jan 2024) Professional Edition

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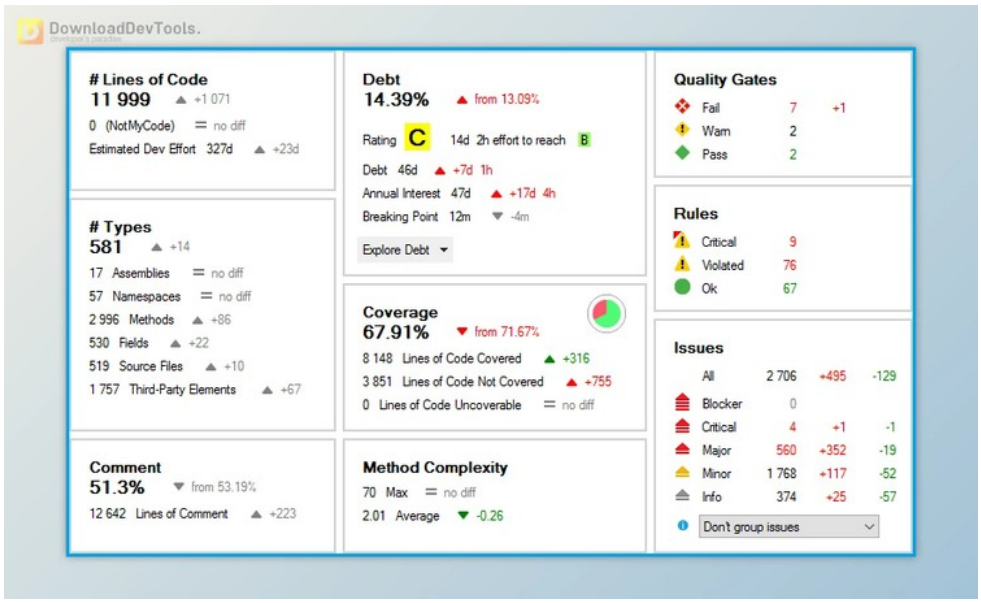

is described as a static analysis tool for the Java code. This tool can support a significant number of code metrics, which permit the user to develop dependencies with the use of the directed graphs and the dependency Matrix. The resources are capable of performing the code foundation snapshot, the contrast, and the analysis of the quality and the rules of the architecture. This potentiality is known to be CQLinq, and this tool can include many predefined code principles of CQLinq.

Key Features of **CoderGears JArchitect** :

1. **Code querying: CoderGears JArchitect** permits the user and developer to query the code based on the queries of CQLinq. It is considered very easy and provided whenever the user creates a new JArchitect project. It is very easy for the user and the developer to read and adapt to the requirements of it. The writing process of the CQLinq query, as well as the constraint, is very straightforward because it can provide the editor, which is capable of supporting the code completion process, IntelliSense, error description, and live compiling. Once the query is compiled, it can be executed immediately and results in a well-displayed and browsable.

2. **Smart technical depth estimation:** The technical debt is estimated from formulas such as the C# and the Linq, which is embedded inside every rule and a source code. This can make the estimation smart, easy, and customizable to the user's requirements. The user does not have to write the depth exploration queries as they are generated by clicking the values and the menus in the dashboard. It is considered 100% customizable, and not every facet of the debt estimation is capable of being customizable, but the depth presentation is also customizable. It can offer a huge range of features to the user and the developer.

3. **Quality gate:** The quality gate is basically a check on the code's quality and the fact that it must be enforced before the process of releasing and eventually before the process of committing to source control. The Quality gate can be seen as a pass-or-fail criterion for the quality of the software. There are dozens of quality Gates that the JArchitect proposes, and they are related to measure just like the technical debt amount called the cover that or even the amount of the issues along with the particular severity.

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4. **Trend monitoring: CoderGears JArchitect** permits the process of creating the trend chart, and these charts are made of the trend metrics and values that are logged over time during the analysis. More than 50 trend metrics are available for the users and developers per default, and it is very easy to create one of the trend metrics. The trend chart is displayed on the dashboard of JArchitect, and they are available to show the code of lines, the number of codes and rules that are violated, the number of cold rule violations, and third-party usage. The trend chart can be customized, and it is easy for the user to create the Train chart to show the default and customer metrics of a trend.

5. **Coverage:** The process of writing the automatic test is considered the central practice to increase the code's correctness. JArchitect can gather the coverage of the code as well as the data right from the Cobertura as well as JaCoCo. This particular data can infer some metrics on the method, types, packages, projects, and percentage of the coverage. These metrics can be used conjointly along with the features of JArchitect.

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