JAVA with ITP-PANORAMA

How to maintain many thousands of
classes, objects, methods and members today?

ITP Software
Systeme GmbH

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JAVA Development
JAVA seems to be easy to overlook with its Object-Orientation. The models used at universities are straight and clean. Real life is different. If developers who have written the applications are not around any more, the understanding of foreign software is as difficult as that of legacy systems.

Classes may be developed in India or Brazil, or downloaded from SUN or other sources that may bring new versions that do things different. Parts of the application may be bought from ISVs. Code may have been generated. The one who has to understand and change such an application needs help.

Because JAVA is a fairly new technique the tool-market did concentrate on JAVA development. Very few, if any, thought of the hassle to modify or enhance many thousands of classes and methods.

How to keep control over many thousands of Classes and Objects?
Each change in many thousands of Classes and Objects is a risky task. Therefore the impact of the change has to be analyzed carefully to prevent a crash. Who can say today that the impact analyses is 100% correct and comprehensive?

Major IT users will have heterogeneous systems for a long time. They need therefore an environment that supports all programming languages that are in use. ITP-PANORAMA does unite all sources in one HyperCube Repository and with a unified user interface. It allows navigation across all software in all applications by mouse-click. ITP-PANORAMA is easy to understand and can be learned in only two hours.

ITP-PANORAMA to answer all questions
In a "real" object-oriented application, classes have to be properly maintained and should not exist in many copies.
- Which class of many with the same name is used by an particular application?
- Which method is processed if it is used in various classes?
- What member and method has a particular class with all diversions?

A new version of classes were downloaded from the Web or purchased.
- What was changed in the classes, where are they used and what is the impact of the change?
- How is each run-time environment effected?

How much time is spent to answer these questions? Is this kind of search cost effective?

How helpful would it be if any question in a complex application system would be answered in less then a second?

ITP-PANORAMA Scanner
The extremely fast scanner (10 mill. LOC in < 60 min.) splits the code into each little detail that is later used as search key. All dependencies are checked and inconsistencies put on a error list. Calls of programs outside the JAVA applications are also checked. This helps to avoid bugs that are difficult to locate without ITP-PANORAMA.

HyperCube Repository
This technology enables the sub-second response time of ITP-PANORAMA. The search by mouse-click does bring the information seeked for and in addition all related data. This supports associative and intuitive thinking. All dependencies are shown beyond classes and packages.

Summary
- Online real-time documentation
- Transparency in all classes, objects
- Panorama View across all systems
- Each little detail found by a mouse-click
- Redundancies easy to find
- Effective test of all systems
- Dramatic increase of productivity
- Indispensable for quality assurance
- Easy to understand and use
- Supports hundreds of developers
- Helps to deliver in time and budget

Find more Information at www.itp-panorama.com
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