

Global-Aware Recommendations for Repairing Violations in Exception Handling

ABSTRACT

Exception handling mechanisms are structuring instruments aimed at facilitating the design and implementation of robust programs. These mechanisms are provided as built-in features in most mainstream programming languages, like Java, Java script, C#, Python, PHP and the like, allowing developers to structure the exception handling code of their programs in a reliable fashion. Some authors advocate the importance of addressing exception handling-related issues since early phases of software development as a means to improve the robustness of a system.

EXISTING SYSTEM

In Existing System, Empirical evidence suggests exception handling is not reliably implemented. Most faults in exception handling are related to global exceptions violating the intended exception handling design. However, repairing these violations is a cumbersome and error-prone task. It requires knowing the intended design and understanding how the source code violates it. It also requires changing the source code to make it compliant with the intended design. But changing the exception handling code is a difficult task, since changes in exception handling requires changing different parts of a program. Currently, there is still no solution to assist the repair of this type of violations.

DIS ADVANTAGES

- Recurring exception handling-related faults reported in the literature occur.
- Repairing violations in exception handling is a difficult and error-prone task.

PROPOSED SYSTEM

In Proposed System, we present RAVEN, a heuristic strategy aware of the global context of exceptions that produces recommendations of how violations in exception handling may be repaired. This strategy takes advantage of explicit specifications of the intended design, although their availability is not mandatory. Our results revealed RAVEN provides recommendations able

to repair violations in 69% of the cases when policy specifications are not available and in 97% of the cases when specifications are available. Thus, development teams may benefit from RAVEN, even when exception handling design decisions are not documented in their projects.

ADVANTAGES

- It improves software robustness, recurring exception handling-related faults.
- Guarantee that every tuple in the exception propagation path is correctly chained from the exception raiser to the exception handler.

SYSTEM REQUIREMENTS

H/W System Configuration:-

Processor	-	Pentium –III
RAM	-	256 MB (min)
Hard Disk	-	20 GB
Key Board	-	Standard Windows Keyboard
Mouse	-	Two or Three Button Mouse
Monitor	-	SVGA

S/W System Configuration:-

Operating System	:	Windows95/98/2000/XP
Application Server	:	Tomcat5.0/6.X
Front End	:	HTML, Jsp
Scripts	:	JavaScript.
Server side Script	:	Java Server Pages.
Database	:	MySQL 5.0

Database Connectivity : JDBC

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