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(57) Abstract :

The present invention discloses a system (100) to detect memory leaks in a computing device such as mobile phone, and includes a processor (102) configured to provide an integrated view for real-time insight into the performance of an interface running on computing device. The interface's performance is monitored and analyzed, presenting performance metrics, resource utilization statistics, and graphical representations. To identify memory leaks, the system periodically pauses execution of interface, allowing for memory to be dumped and producing leak traces. These traces provide valuable information about the discovered memory leaks. The system also displays a real-time graph depicting the memory usage of the interface, enabling users to visualize memory consumption patterns, allocation trends, and changes over time. Additionally, system allows for capturing a heap dump of the interface, which involves taking a snapshot of the current memory state, including objects, variables, and data structures associated with the interface.

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