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(57) Abstract :

Embodiments of the present disclosure relates to a system (100) and method (300) for applying a lightweight redundancy tool for processing transactions while maintaining data integrity and minimizing the risk of transaction failures or data loss in resource-constrained environments. The system (102) comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to monitor performance and availability of components to adjust redundancy configurations. Next, the processor (202) is configured to distribute transaction processing tasks across redundant components based on the adjusted redundancy configurations. Thereafter, the processor (202) is configured to dynamically adjust a level of redundancy based on the distributed transaction processing tasks. In the end, the processor (202) is configured to generate instant alerts allowing administrators to take prompt corrective actions.

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