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(57) Abstract :

The invention discloses a computer-based tool for real-time software performance testing, comprising performance data collectors (101), a performance analytics engine (102), an anomaly detection unit (103), a predictive performance forecaster (104), a reporting dashboard (105), and a CI/CD connector (106). The system continuously captures, analyzes, and visualizes performance metrics while detecting anomalies and predicting degradation. It ensures adaptive testing across clouds, microservices, and hybrid environments. The invention improves reliability, scalability, and efficiency by providing real-time insights, proactive alerts, and optimization strategies, thereby addressing performance challenges in modern software systems.

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